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PRE-DESIGN INVESTIGATION REPORT

FORMER KENT AVENUE GENERATING STATION

500 KENT AVENUE
BROOKLYN, NEW YORK

PROJECT NO. 126649

June 2010

Submitted to:

Consolidated Edison Company of New York, Inc.
31-01 20th Avenue
Long Island City, New York

Submitted by:

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1.0 INTRODUCTION

The former Consolidated Edison (Con Edison) Kent Avenue Generating Station ("Site") is located at 500 Kent Avenue, Brooklyn, New York. The Site is bounded by Division Avenue to the north, the former Brooklyn Navy Yard to the south, Kent Avenue to the east, and Wallabout Channel to the west. **Figure 1** provides a site location map. The total area of the Site is approximately 4 acres in area. It had been developed by a 7-and 9 story structure (demolished in 2009) with a footprint of approximately 2.6 acres which formerly housed the generating station. The remaining 1.4 acres consist of a vacant lot on the southern portion of the property (where a previously demolished portion of the generating station complex was located), a concrete walkway in the western portion, and a small concrete/unpaved side yard in the northern portion.

1.1 Site Topography and Geology

The Site is located in Kings County on the northwestern shore of Long Island. The Site is generally flat and lies at an elevation of approximately 15 feet (ft). above mean sea level. The geology of Long Island consists of varying thicknesses of glacial till, outwash sediments, and marine deposits, overlying a sloping bedrock surface. Bedrock in the Site area is believed to lie at approximately 50 to 100 ft. (ft) below ground surface (bgs).

According to maps found in technical literature[1], the Site location appears to be one that was landfilled sometime between 1844 and 1900. Landfills in New York City during this time period were typically composed of sediments consisting of coal ash, cinders, slag, brick, wood, and cement. This is consistent with the findings by previous site investigations of ash, concrete, and brick, as well as sand, silt, gravel, and clay in the upper 15 ft. of the soil column. The water table is at an elevation approximately level with the surface water altitude in the adjacent Wallabout Channel, and thus is likely to be influenced by tidal variations. Depth to groundwater was found to be approximately 8 ft bgs.

[1] Landfills in New York City: 1844-1994, Walsh, D.C., and LaFleur, R.G., GROUND WATER, V. 33, No.4, 1995.

2.0 SITE INVESTIGATION HISTORY

Site Investigation history has been summarized within the following documents:

- Phase I Environmental Site Assessment Report, H2M, September, 1999;
- Phase II Site Investigation Report: Kent Avenue Site, LMS, February 6, 2000;
- Phase II Site Investigation Report Addendum: Former Kent Avenue Generating Station Facility, LMS, February 16, 2000; and
- Site Investigation Summary Report: Consolidated Edison Former Kent Avenue Generating Station, Shaw, April, 2007.

The Phase I ESA recognized several potential environmental concerns onsite:

- underground storage tanks (USTs),
- aboveground storage tanks (ASTs),
- an ash pit,
- suspect materials within the buildings,
- placement of fill material, polychlorinated biphenyls (PCBs), oil filled electrical components,
- lead-based paint, and
- asbestos.

The LMS Phase II Site Investigation focused on the applicable areas of concern outlined in the Phase I as a basis for a subsurface investigation. A total of sixteen surface soil samples, fourteen subsurface soil samples and six groundwater samples were collected for laboratory analysis. Laboratory analysis of the surface soil samples reported concentrations of PCBs exceeding cleanup objectives at six locations. The deeper soil horizon (2 to 8 ft bgs) was investigated at 13 locations, where soil borings were advanced to the depth of the water table (approximately eight ft bgs), and soil samples were collected for on-site evaluation and for laboratory analysis. The laboratory analyses of the subsurface soil samples showed concentrations of metals exceeding cleanup objectives at seven locations, concentrations of semi-volatile organic compounds (SVOCs) exceeding cleanup objectives at nine locations, and concentrations of volatile organic compounds (VOCs) exceeding cleanup objectives at one location. Laboratory analysis of the groundwater samples showed exceedances of New York State Department of Environmental Conservation (NYSDEC) Class GA standards by VOCs at two locations, by metals at four locations, and by SVOCs at one location. Groundwater

contamination was most prevalent in the sample collected from the boring at the southwest corner of the property.

During the Phase II Site Investigation field activities, four separate environmental incidents were reported by Con Edison to the NYSDEC:

1. A drum was encountered with several holes, was severely deformed and contained a thick black semi-liquid that resembled heavy fuel oil. Paint thinner and creosote odors were noted. Con Edison prepared an Environmental Management Incident System Report (EMIS Incident ID 129245) and reported the incident to the NYSDEC (Spill #99-10753). The drum contents were tested and identified as oil similar to a light fuel oil. The cleanup was considered complete after the drum and surrounding impacted material were removed (NYSDEC closed this spill on January 9, 2008).
2. A sheen formed on the ash pit water surface during sludge sampling. The sludge was observed to have an oily and dark coloration. Con Edison prepared an EMIS Report (EMIS Incident ID 129308) and reported the incident to the NYSDEC (Spill #99-10993). NYSDEC closed this spill for administrative reasons and consolidated into Spill #99-11014 on January 24, 2008.
3. Oil stained soil with a moth ball type odor was encountered in a boring in the southwest corner of the site. Con Edison prepared an EMIS Report (EMIS Incident ID 129314) and reported the incident to the NYSDEC (Spill #99-11014).
4. Soil saturated with black musty oil and with a fuel oil odor was encountered in a boring in the southeastern portion of the site. Con Edison prepared an EMIS Report (EMIS Incident ID 129323) and reported the incident to the NYSDEC (Spill #99-11046). NYSDEC closed this spill for administrative reasons and consolidated into Spill #99-11014 on January 9, 2008.

The Shaw Environmental Inc. (Shaw) site investigation focused on delineation of subsurface soil contamination and to formulate a Remedial Action Work Plan, if needed, to facilitate potential future site redevelopment. During the Shaw field site investigation activities, one environmental incident was reported by Con Edison to the NYSDEC:

- Approximately two gallons of waste oil/used oil was saturated in the soils at test pit PBL-8. Similar conditions were subsequently encountered at PBL-1, PBL-2, and PBL-7, and a sheen was observed on the groundwater surface in PBL-1. Con Edison prepared an EMIS Report (EMIS Incident ID 201150) and reported these incidents to

the NYSDEC (Spill #0604169). NYSDEC closed this spill for administrative reasons and consolidated into Spill #99-11014 on January 9, 2008.

The Site Investigation Summary Report, prepared in April 2007 by Shaw, provided the following conclusions regarding the site investigation:

- Soil samples collected from borings PBL-1, 2, 5, 7, 8, 8A, 9 and S-1 through S-9 showed SVOCs at concentrations exceeding the NYSDEC Technical and Administrative Guidance Memorandum #4046 (TAGM 4046) Recommended Soil Cleanup Objectives (RSCOs) in seven of the samples. No VOCs were detected above TAGM 4046 RSCOs in any of the soil samples.

- One PCB (Aroclor-1260) was detected in most of the subsurface soil samples; however the concentrations were well below the TAGM 4046 RSCO.

- Eight soil samples contained metal concentrations above the TAGM 4046 RSCOs. Concentrations of metals such as calcium, iron, sodium, and potassium consisted of a significant portion of the total metals in many of the samples. Arsenic concentrations were detected in the samples from PBL-8 and PBL-9 above the TAGM RSCO.

- TPH was detected in all of the samples. Fingerprint analysis of selected soil samples showed the identification of heavy lubricating oil and weathered #6 fuel oil in certain samples.

- The laboratory analyses of groundwater samples showed elevated concentrations of benzene, ethybenzene, o-xylene, p & m xylenes, acenaphthene, and naphthalene in the sample from MW-2. Lower concentrations of other hydrocarbons, as well as elevated concentrations of sodium and chloride were detected in the sample from this well. MW-2 is close to test pit PBL-1, where a sheen was observed during excavation of the test pit.

- Visual evidence, as well as analytical data confirming elevated concentrations of petroleum-related chemical compounds, suggest that environmental impact to site soils has resulted from facility operations, or possibly from the adjacent property to the south, which is a former manufactured gas plant site (currently the subject of a Voluntary Cleanup Agreement (VCA) between National Grid and NYSDEC). Concentrations of most metals in site soils may be due to deposition during landfilling operations over 100 years ago (urban fill).

- An Interim Remedial Measure (IRM) was performed at the site in the form of excavation and disposal of contaminated soil encountered during the test pit investigation. Approximately 30 cubic yards of soils displaying physical evidence of contamination were excavated from the subsurface, sampled for laboratory analysis to confirm elevated chemical concentrations, and transported to off-site disposal facilities.

Additionally, a geophysical investigation of the site to locate possible buried utilities during Shaw's 2006 investigation delineated an elongated anomaly that coincided with the approximate location of a buried 1,500 gallon fuel oil tank illustrated on a 1961 Insurance Map for the Kent Avenue Generating Station.

3.0 FIELD ACTIVITIES

The field program was conducted at the Con Edison Former Kent Avenue Generating Station between November 18, 2009 and December 15, 2009 in accordance with the Pre-Design Investigation Work Plan (PDIWP), submitted by Con Edison to the NYSDEC on April 28, 2009. The goals of the pre-design investigation field activities were 1.) to confirm the presence and location of a 1,500 gallon underground storage tank (UST) that was used to store fuel oil, and 2.) to approximate the lateral and vertical extents of subsurface contamination in the vicinity of PBL-1, PBL-2, PBL-5, PBL-7, and PBL-8.

A summary of the work performed, including any deviations from the scope of work outlined in the SIWP, is discussed in the following sections.

3.1 Underground Utility Clearance

A utility clearance was made prior to the start of intrusive work. The clearance was performed in accordance with the Utility Clearance Process for Intrusive Activities: EH & S Remediation Program, Revision 1, Con Edison, October 8, 2003. To identify utilities located within site property boundaries, Shaw reviewed site drawings and electrical plates provided by Con Edison, as well as water and sewer maps provided by the New York City Department of Environmental Protection (NYCDEP). "One-Call" utility markout requests were called in for the Kent Avenue and Division Avenue sidewalks adjacent to the site. A geophysical survey to locate underground utilities was performed on November 18 and 19, 2009 by NAEVA Geophysics, Inc., a subcontractor to Shaw. The survey was performed using ground-penetrating radar, electromagnetic

devices, and radio frequency (RF) transmission/reception. All utilities identified by the surveys were marked on the overlying ground surface with spray paint and marking flags. NAEVA Geophysics, Inc. developed figures showing the results of the geophysical survey. These figures are presented in **Attachment 1**.

The upper five ft. (at a minimum) of each boring was cleared by vacuum-powered apparatus prior to the use of drilling equipment to continue the boring.

3.2 Soil Borings

Soil sampling was performed in the five onsite areas (PBL-1, PBL-2, PBL-5, PBL-7, and PBL-8), as illustrated in **Figure 2**. Since the purpose of the pre-design investigation was to approximate the lateral extent of the contamination in these five areas, the drilling program called for up to 16 soil borings to be drilled at each of the five locations. A center point for each of the five locations was marked with a steel rod. In a general north-south, and east-west direction (using the east side of Kent Avenue as north-south), four lines were drawn from each steel rod. At each location, marks were made at distances of 5, 10, 20, and 30 ft. from the steel rod along all four lines. The intent of the program was to start near the center of each of the five locations, and move outwards until the contamination was delineated.

In order to easily identify soil borings and associated samples, each soil boring was given a unique number. The boring number started with the location number, followed by a letter (N for north, E for east, etc,) to designate the direction from the steel rod, followed by a number representing the distance, in ft. from the steel rod. As an example, the boring number PBL-1-N-10 represents the boring in the area of PBL-1 that is 10 ft. north of the steel rod. Soil samples collected from a boring were given an identification that included the soil boring number, followed by a number representing the sampling depth in ft. This was used so when two samples were collected from a single boring, they had unique identification numbers.

Hand clearance of soil boring locations utilizing a Vactron and "air knife" began on November 30, 2009. The five and ten foot boring locations were cleared over a two week period. The hand clearing down to five ft. took unexpectedly long due to the large amount of brick, concrete and wood (timber) debris within the site materials. Soil cuttings from the vacuum-clearing process were examined for texture, color, and visual or olfactory evidence of contamination by a Shaw geologist. In addition, the soil cuttings

were screened for the presence of VOCs using a photoionization detector (PID). Soil vacuuming continued to a depth of five ft bgs. Soils from the vacuum clearing process exhibiting evidence of contamination were sampled for laboratory analysis using decontaminated sampling utensils, and inserted directly into laboratory supplied glassware.

Between December 8 and 15, 2009, boreholes were advanced with a Compact Roto Sonic 17-C drill rig under the supervision of a Shaw geologist.

At each boring location soil samples were collected using a core barrel with a dedicated, internal liner. Soil samples were collected continuously from five ft. bgs until refusal was encountered. Test pit logs from the previous Shaw investigation identified a several ft. thick subslab beneath all five locations ranging between 7 and 9.5 ft bgs. Once the core barrel encountered significant resistance at the depth of the subslab identified during the previous investigation, the boring was terminated.

All soil samples were evaluated in the field for visual or olfactory evidence of contamination, screened with a PID, and described in a written log for the following: percent of recovered sample in the internal liner, soil color and soil texture. Soil boring logs are presented in **Attachment 2**. Soil samples from five ft. bgs to the boring termination depth were collected directly from the internal liner and inserted directly into laboratory-supplied glassware. Up to two samples were selected from each boring for laboratory analysis. Selection of samples was biased toward those samples exhibiting evidence of contamination, and was based on the professional judgment of the geologist. Select photographs from the drilling program are presented in **Attachment 3**.

The soil samples were submitted for laboratory analysis of:

- VOCs by EPA Method 8260B (PBL-1 and PBL-2 only);
- SVOCs by EPA Method 8270 (acid extractables and base neutrals); and
- Target Analyte List (TAL Metals) by EPA Methods 6010B/7471.

Samples were picked up daily by the laboratory, Test America, located in Shelton, Connecticut. Samples were analyzed with a 48 hour turn-around-time so results from the early samples could guide the later samples. Since the hand clearing operations took longer than anticipated, the drilling program was shortened. By the time the results for the first two days arrived, there was only one additional day of drilling. That is why

some borings appear to skip some of the intermediate locations, and why some borings were placed as far as 60 ft. from the center location.

3.3 Buried 1,500 Gallon Fuel Oil Tank Location

The geophysical contractor conducted a survey at the north end of the site to verify and mark out the location of the reported buried 1,500-gallon fuel oil tank. The contractor had previously delineated the approximate location in 2006. The survey conducted in December 2009 was hindered by a guard shack that was placed over the eastern portion of the reported tank (see **Figure 2** in **Attachment 1**). The survey was able to delineate and mark the axis of the UST. The survey delineated the east end of the UST axis up to the guard shack. There was no evidence that the UST continued further east of the guard shack. The marked UST axis was approximately seven to eight ft. from the fence along Division Avenue. The Pre-Design Investigation Work Plan (PDIWP) called for a minimum of two hand clearance holes to verify the presence and specific location of the buried tank. Three hand clearance holes were dug in the vicinity of the buried tank. Two hand clearance holes confirmed the presence of the UST, but not the specific outline of the UST.

3.4 Waste Containment and Disposal

Investigation derived waste (IDW) streams generated during the PDI included:

- drill cutting soils or vacuumed soils with visual or olfactory evidence of contamination; or producing high PID responses;
- plastic sheeting placed beneath the drill rig and decontamination pad; and
- decontamination rinse water.

These wastes were containerized in 55-gallon USDOT-approved steel drums. At the end of each work day, all open drums were sealed and were moved to the temporary onsite waste storage location in the southeastern portion of the work area. All drums were labeled with "Investigation Derived Waste: Pending Analysis" labels.

Shaw personnel listed on each drum the soil borings which contributed to the drum contents. All drums were sequentially numbered with indelible ink. Shaw field personnel recorded the drum number and contents for each of the drums, and completed the drum labels using indelible ink. The drums were rendered to Con Edison for

sampling and analysis to determine potential hazardous characteristics and disposal by Con Edison. Con Edison collected a composite sample from the drums on April 20, 2010. The sample was analyzed for polychlorinated biphenyls (PCBs), toxicity characteristic leaching procedure (TCLP) VOCs, SVOCs, Resource Conservation and Recovery Act (RCRA) metals, ignitability of solids, pH, cyanide as HCN (releasable), sulfide as H_2S (releasable), and percent solids. The sample results, presented in **Attachment 4**, show that the drummed material is non hazardous.

4.0 ANALYTICAL REVIEW

Laboratory analysis was performed on all of the soil samples collected from the soil borings. Soil laboratory analytical data were compared to the Part 375-6.8(b) Restricted Use Soil Cleanup Objectives (SCOs) for Residential, Restricted Residential and Industrial Uses to assess remedial options for potential future use scenarios for the Site.

4.1 Regulatory Criteria

NYSDEC issued its Draft CP/Soil Cleanup Guidance document in November 2009. The Guidance document states that NYSDEC's policy is that all environmental remedies be protective of human health and the environment. It also states that it is NYSDEC's preference that environmental remedies be designed such that the implementation of the final remedy results in no future land use restrictions. The Guidance document indicates that NYSDEC recognizes that it is not always feasible to return to a condition where no restrictions are required, and some of the NYSDEC remedial programs are predicated on future site use.

The analytical results from the previous site investigations were compared to the TAGM 4046 RSCOs. Those criteria, based on no future land use restrictions, were very low and restrictive. The above-referenced Guidance document replaces the TAGM 4046 RSCOs. The SCOs found in 6 NYCRR 375-6, Remedial Program Soil Cleanup Objectives, have been incorporated into the Draft CP/Soil Guidance document and are the appropriate guidance levels for use in evaluating the soil sample analytical results of the PDI. Given the historical "making" of land along the New York City waterfront with a wide variety of fill materials, it is not feasible to remediate the Former Kent Avenue Generating Station property without some future land use restrictions. Since the property lies on the waterfront, the Residential, Restricted Residential and Industrial Restricted Use SCOs were chosen as potential future land uses of the property.

4.2 Soil Analytical Data

A total of fifty seven (57) soil samples, including three (3) field duplicates, were submitted for laboratory analysis as follows:

Sample Area	Number of Samples Collected	Sample Analyses
PBL-1	9	VOCs by EPA Method 8260B SVOCs by EPA Method 8270 (acid extractables and base neutrals); Target Analyte List (TAL Metals) by EPA Methods 6010B/7471
PBL-2	10	VOCs by EPA Method 8260B SVOCs by EPA Method 8270 (acid extractables and base neutrals); Target Analyte List (TAL Metals) by EPA Methods 6010B/7471
PBL-5	5	SVOCs by EPA Method 8270 (acid extractables and base neutrals); Target Analyte List (TAL Metals) by EPA Methods 6010B/7471
PBL-7	16	SVOCs by EPA Method 8270 (acid extractables and base neutrals); Target Analyte List (TAL Metals) by EPA Methods 6010B/7471
PBL-8	17	SVOCs by EPA Method 8270 (acid extractables and base neutrals); Target Analyte List (TAL Metals) by EPA Methods 6010B/7471

The analytical results for the VOCs are summarized in **Table 1**. The table presents the sample data in the following sequence:

1. Within each sample area (i.e., PBL-1 then PBL-2);
2. Within each direction from the center of the area (i.e., north, then east, south and west);
3. Closest, then moving further away from area center in one direction; and
4. Shallow then deep when two samples were collected from the same boring.

The analytical results for the SVOCs are summarized in **Table 2**. The table presents the sample data in the same sequence as described for Table 1. The analytical results for the metals are summarized in **Table 3**. The table presents the sample data in the same sequence as described for **Table 1**. The laboratory analytical reports are presented in **Attachment 5.**

4.3 Volatile Organic Compound Findings

A review of the soil sample analytical results on **Table 1** show that fifteen (15) of the forty eight (48) VOCs were detected at very low concentrations within the sixteen soil

samples collected from areas PBL-1 and PBL-2. Each soil sample collected from the PBL-1 area contained between two (2) to eight (8) VOCs. Most of the ten (10) soil samples collected from the PBL-2 area contained only two (2) VOCs (acetone and carbon disulfide), and three (3) of the samples from the PBL-2 area did not contain any detectable VOCs.

Most of the fifteen (15) detected VOCs were petroleum-related VOCs (benzene, methylcyclohexane, toluene, chlorobenzene, ethylbenzene, xylenes, isopropylbenzene, and 1,2-dichlorobenzene), followed by five (5) solvent-related VOCs (acetone, methyl ethyl ketone, trichloroethene, 1,1,2-trichloroethane, and 1,1,2,2-tetrachloroethane). Carbon disulfide and styrene were the other two (2) VOCs detected in the soil samples.

None of the detected VOC concentrations exceeded the corresponding Residential, Restricted Residential or Industrial SCOs.

4.4 Semivolatile Organic Compound Findings

A review of the soil sample analytical results on **Table 2** show that twenty one (21) of the fifty five (55) SVOCs were detected at low to moderate concentrations within the fifty seven (57) soil samples collected from all five (5) areas. With the exception of bis(2-ethylhexyl)phthalate, all of the SVOCs are petroleum-related compounds.

4.4.1 SVOC Residential SCO Exceedances

A total of seven (7) of the twenty one (21) detected SVOCs exceeded the corresponding Residential SCOs as highlighted in **Table 2**, and as shown on **Figure 3**. In the PBL-1 area there was one (1) sample (and corresponding field duplicate), PBL-1-30-E (9), with four (4) Residential SCO exceedances (five [5] Residential SCO exceedances in the field duplicate sample). There were no Residential SCO exceedances in the PBL-2 area. There were Residential SCO exceedances in three (3) of the five (5) samples collected from the PBL-5 area. There were five (5) SVOC exceedances in the samples collected to the south and west of the area center, and six (6) SVOC exceedances in the sample collected east of the area center. There were three (3) Residential SCO exceedances in one sample collected in the PBL-7 area and no Residential SCO exceedances in the PBL-8 area.

4.4.2 SVOC Restricted Residential SCO Exceedances

A total of six (6) of the twenty one (21) detected SVOCs exceeded the corresponding Restricted Residential SCOs as highlighted in **Table 2**, and as shown on **Figure 4**. In the PBL-1 area there was one sample (and corresponding field duplicate), PBL-1-30-E (9), with three (3) Restricted Residential SCO exceedances (five [5] Restricted Residential

SCO exceedances in the field duplicate sample). There were no Restricted Residential SCO exceedances in the PBL-2 area. There were Restricted Residential SCO exceedances in three (3) of the five (5) samples collected from the PBL-5 area. There were four (4) SVOC exceedances in the samples collected to the south and west of the area center, and five (5) SVOC exceedances in the sample collected east of the area center. There were two (2) Restricted Residential SCO exceedances in one sample collected in the PBL-7 area and no Restricted Residential SCO exceedances in the PBL-8 area.

4.4.3 SVOC Industrial SCO Exceedances

One (1) of the twenty one (21) detected SVOCs exceeded the corresponding Industrial SCOs as highlighted in **Table 2**, and as shown on **Figure 5**. There were no Industrial SCO exceedances in the PBL-1, PBL-2, PBL-7 and PBL-8 areas. There was one (1) Industrial SCO exceedances (benzo(a)pyrene) in three (3) of the five (5) samples collected from the PBL-5 area.

4.5 Metals Findings

A review of the soil sample analytical results on **Table 3** show that all twenty three (23) metals were detected at low to high concentrations within the fifty seven (57) soil samples collected from all five (5) areas. Iron was detected at concentrations above the Residential SCO of 2,000 milligrams per kilogram (mg/Kg) in all fifty seven (57) samples. The range of Eastern USA Background iron concentrations, provided in the NYSDEC TAGM 4046 RSCOs, are between 2,000 and 550,000 mg/Kg. Since iron is such a prominent metal in the soils and rock of New York, and given that the range of background concentrations is so large, iron concentrations will not be used to delineate the extent of soil remediation and will not be included in the discussions regarding SCO exceedances.

4.5.1 Metals Residential SCO Exceedances

A total of nine (9) of the detected metals exceeded the corresponding Residential SCOs as highlighted in **Table 3**, and as shown on **Figure 6**. In the PBL-1 area there were two (2) samples with Residential SCO exceedances of copper and lead (PBL-1-20-E (8)) and nickel (PBL-1-5-W (9)). There were three (3) Residential SCO metal exceedances in two (2) samples (plus a field duplicate) in the PBL-2 area. In the PBL-5 area there were two (2) samples with Residential SCO exceedances of chromium and lead (PBL-5-10-S (2)) and mercury (PBL-5-2-W (7). There were up to seven (7) Residential SCO metal exceedances in fourteen (14) of the sixteen (16) samples collected from the PBL-7 area.

All of the fourteen (14) samples with Residential SCO exceedances had, as a minimum, an arsenic exceedance. The two samples from the PBL-7 area without any Residential SCO exceedances were both the shallower of two samples collected from the same boring. There were up to nine (9) Residential SCO metal exceedances in sixteen (16) of the seventeen (17) samples collected from the PBL-8 area. All of the sixteen (16) samples with Residential SCO exceedances had, as a minimum, an arsenic exceedance.

4.5.2 Metals Restricted Residential SCO Exceedances

A total of six (6) of the detected metals exceeded the corresponding Residential SCOs as highlighted in **Table 3**, and as shown on **Figure 7**. The concentrations of cadmium, chromium and selenium that exceeded the Residential SCOs were less than the Restricted Residential SCOs. In the PBL-1 area there were two (2) samples with Restricted Residential SCO exceedances of lead and copper (PBL-1-20-E (8)) and nickel (PBL-1-5-W (9). There were two (2) Restricted Residential SCO exceedances in two (2) samples (plus a field duplicate) in the PBL-2 area. In the PBL-5 area there were two (2) samples with Restricted Residential SCO exceedances of lead (PBL-5-10-S (2)) and mercury (PBL-5-2-W (7). There were up to four (4) Restricted Residential SCO exceedances in fourteen (14) of the sixteen (16) samples collected from the PBL-7 area. All fourteen (14) samples had, as a minimum, an arsenic Restricted Residential SCO exceedance. There were up to six (6) Restricted Residential SCO exceedances in sixteen (16) of the seventeen (17) samples collected from the PBL-8 area. All sixteen (16) samples had, as a minimum, an arsenic Restricted Residential SCO exceedance.

4.5.3 Metals Industrial SCO Exceedances

One (1) of the metals, arsenic, exceeded the corresponding Industrial SCOs as highlighted in **Table 3**, and as shown on **Figure 8**. There were no Industrial SCO exceedances in the PBL-1 and PBL-5 areas. There was one (1) arsenic Industrial SCO exceedance in one sample (PBL-2-60-E (4), plus the field duplicate) in the PBL-2 area. There were fourteen (14) arsenic Industrial SCO exceedances in the sixteen (16) samples collected from the PBL-7 area. There were sixteen (16) arsenic Industrial SCO exceedances in the seventeen (17) samples collected from the PBL-8 area.

5.0 DELINEATION ASSESSMENT

A primary objective of the PDI was to delineate the lateral and vertical extents of subsurface contamination in the vicinity of the PBL-1, PBL-2, PBL-5, PBL-7, and PBL-8 areas for the purpose of remediation. For this program, the limit of remediation is established when none of the tested parameters exceed the Part 375 Soil Cleanup Objectives. As discussed in Section 4.3 above, none of the detected VOC concentrations exceeded the corresponding Residential, Restricted Residential or Industrial SCOs. Therefore, VOCs do not affect the delineation of the soil contamination.

5.1 Residential SCO Delineation

Residential SCO exceedances of both SVOCs and metals were observed in several of the sample locations as shown on Figure 3 and Figure 6. In the PBL-1 area, there was one sample with four (4) Residential SVOC exceedances, and two (2) sample locations with a maximum of two Residential metal exceedances. No additional delineation is necessary toward the north, south or west of the PBL-1 area. The location of the Residential SVOC exceedances (PBL-1-30-E) is furthest to the east of the area. Further delineation to the east is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-2 area, there were only two (2) sample locations with a maximum of two (2) Residential metal exceedances. No additional delineation is necessary toward the north, south (PBL-1 area to the south) or west of the PBL-2 area. The locations of the Residential metal exceedances (PBL-2-30-E and PBL-2-60-E) are furthest to the east of the area. Further delineation to the east is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-5 area, there were three (3) sample locations with either five (5) or six (6) Residential SVOC exceedances, and two (2) sample locations with a maximum of two (2) Residential metal exceedances. No additional delineation is necessary toward the north. Further delineation to the west is not possible due to the presence of the Ash Pit. The location with both Residential metal and SVOC exceedances (PBL-5-10-S) is furthest to the south of the area, and the location of Residential SVOC exceedances (PBL-5-10-E) is furthest to the east of the area. Further delineation to the south and east is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-7 area, there was one (1) sample location with three (3) Residential SVOC exceedances, and all of the sample locations had a minimum of one (1) Residential metal (arsenic) exceedance. Further delineation to the north, east, south and west is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-8 area, there were no Residential SVOC exceedances, and all of the sample locations had a minimum of one (1) Residential metal (arsenic) exceedance. Further delineation to the north, south east, and west is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

5.2 Restricted Residential SCO Delineation

Restricted Residential SCO exceedances of both SVOCs and metals were observed in several of the sample locations as shown on Figure 4 and Figure 7. In the PBL-1 area, there was one sample with three (3) Restricted Residential SVOC exceedances, and two (2) sample locations with a maximum of two Restricted Residential metal exceedances. No additional delineation is necessary toward the north, south or west of the PBL-1 area. The location of the Restricted Residential SVOC exceedances (PBL-1-30-E) is furthest to the east of the area. Further delineation to the east is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-2 area, there were only two (2) sample locations with a maximum of two (2) Restricted Residential metal exceedances. No additional delineation is necessary toward the north, south (PBL-1 area to the south) or west of the PBL-2 area. The locations of the Restricted Residential metal exceedances (PBL-2-30-E and PBL-2-60-E) are furthest to the east of the area. Further delineation to the east is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-5 area, there were three (3) sample locations with either four (4) or five (5) Restricted Residential SVOC exceedances, and two (2) sample locations with one (1) Restricted Residential metal exceedance. No additional delineation is necessary toward the north. Further delineation to the west is not possible due to the presence of the Ash Pit. The location with both Restricted Residential metal and SVOC exceedances (PBL-5-10-S) is furthest to the south of the area, and the location of Restricted Residential SVOC exceedances (PBL-5-10-E) is furthest to the east of the area. Further delineation to the south and east is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-7 area, there was one (1) sample location with two (2) Restricted Residential SVOC exceedances, and all of the sample locations had a minimum of one (1) Restricted Residential metal (arsenic) exceedance. Because all of the furthest sampling locations had metal exceedances, further delineation to the north south, east, and west is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-8 area, there were no Restricted Residential SVOC exceedances, and all of the sample locations had a minimum of one (1) Residential metal (arsenic) exceedance. Because all of the furthest sampling locations had Restricted Residential metal exceedances, further delineation to the north south, east and west is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

5.3 Industrial SCO Delineation

Industrial SCO exceedances of both SVOCs and metals were observed in some of the sample locations as shown on Figure 5 and Figure 8. In the PBL-1 area, there were no Industrial SVOC or metal exceedances. Therefore, no further delineation is required.

In the PBL-2 area, there was only one (1) sample location with one (1) Industrial metal (arsenic) exceedance. The location of the Industrial metal exceedance (PBL-2-60-E) is furthest to the east of the area. Further delineation to the east is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-5 area, there were three (3) sample locations with one (1) Industrial SVOC (benzo(a)pyrene) exceedances, and no Industrial metal exceedances. No additional delineation is necessary toward the north. Further delineation to the west is not possible due to the presence of the Ash Pit. The two (2) locations with the Industrial SVOC exceedance are furthest to the south of the area (PBL-5-10-S), and furthest to the east of the area (PBL-5-10-E). Further delineation to the south and east is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-7 area, there were no Industrial SVOC exceedances, and all of the sample locations had only one (1) Industrial metal (arsenic) exceedance. Because all of the furthest sampling locations had metal exceedances, further delineation to the north, south, east, and west is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

In the PBL-8 area, there were no Industrial SVOC exceedances, and all of the sample locations had only one (1) Industrial metal (arsenic) exceedance. Because all of the furthest sampling locations had metal exceedances, further delineation to the north, south

east and west is discussed in Section 5.4, and will incorporate historical analytical and qualitative data.

5.4 Historical Data

As discussed above in Section 2.0, two previous investigations had been completed at the site. In 2000, a total of fourteen (14) subsurface soil samples were collected from thirteen (13) soil borings. In 2006, sixteen (16) subsurface soil samples were collected from eleven (11) soil borings/test pits and nine (9) shallow soil borings. The locations of the soil borings/test pits are shown on Figure 9. As discussed above, analytical results from these two (2) investigations were compared to the TAGM 4046 RSCOs, and a large number of exceedances were noted. To assist in the delineation of contaminated soil at the site, the analytical results from the previous investigations were compared to the Part 375 Residential SCOs. The Residential SCOs were chosen for comparison because 1.) the Residential SCOs would require the least amount of future land use restrictions; and 2.) key SVOC and metal compounds have little to no change in SCO levels between Residential and Industrial SCOs. At this site, the two significant compounds are 1.) benzo(a)pyrene, a SVOC, with a Residential SCO of 1.0 mg/Kg and an industrial SCO of 1.1 mg/Kg; and 2.) arsenic, a metal, with a Residential and Industrial SCO both at 16 mg/Kg. Remedial actions to meet Industrial SCOs would require the same level of effort as remedial actions to meet Residential SCOs.

With one exception, none of the reported VOCs concentrations presented in the previous site investigation reports exceeded the corresponding Residential SCO. The one exception was a reported naphthalene concentration of 103 mg/Kg in sample S-07C (8-12 ft. deep) which was in excess of the Residential SCO of 100 mg/Kg. Naphthalene is one of a few compounds that are sometimes reported as both a VOC and a SVOC. The naphthalene concentration in sample S-07C, reported as a SVOC, was 840 mg/Kg. The naphthalene concentration used for this review was the SVOC result of 840 mg/Kg.

A total of seven (7) samples from the previous investigations had SVOC concentrations above the corresponding Residential SCOs. The location and compounds of the seven (7) samples are shown on Figure 9, along with the five (5) samples from the PDI. Sample S-07 (8-12 ft. deep) had thirteen (13) SVOCs with concentrations greater than the corresponding Residential SCOs (there was not enough room on the figure to list all thirteen (13) compounds). Four (4) of the samples from the previous investigations (PBL-1, S-06, S-08, and S-12) had between six (6) and seven (7) SVOCs with concentrations greater than the corresponding Residential SCOs. The remaining

historical sample, S-01 (4-8 ft. deep), located near the Ash Pit, had three (3) SVOCs which exceeded the corresponding Residential SCOs.

A total of eleven (11) samples from the previous investigations had metal concentrations above the corresponding Residential SCOs. The location and metals of the eleven (11) samples are shown on Figure 10, along with the thirty four (34) samples from the PDI. All ten (10) samples from the previous investigations that were located south of the recently demolished building had, as a minimum, a Residential SCO exceedance for arsenic. Most of the eleven (11) samples had between one (1) and three (3) metals with concentrations which exceeded the corresponding Residential SCO. Sample PBL-8 (8-8.5 ft. deep) contained eight (8) metals with concentrations greater than the corresponding Residential SCOs.

5.5 Areas of Insufficient Data

During the previous investigations, several soil borings/test pits (PBL-3, PBL-4, PBL-6, PBL-10 and PBL-11) were advanced into the subsurface where no sample was collected for laboratory analysis. These locations, for the most part were located in the central area south of the recently demolished building. The test pits at PBL-3, PBL-6 and PBL-11 were terminated at 1.5 ft. bgs because asbestos containing material (ACM) was encountered. PBL-4 was terminated at 4.5 ft. bgs due to steel and concrete obstructions. There was no physical evidence of the potential for chemical contamination of subsurface soils at these locations. PBL-10 was advanced to 7 ft. bgs and encountered predominantly brick and fire brick. This description is nearly identical to the description of subsurface conditions reported in the boring log for PBL-7-20-S. PBL-7-20-S is approximately 40 ft. north of PBL-10 and the sample from PBL-7-20-S had a Part 375 SCO exceedance for arsenic. Based on the nearly identical subsurface conditions at both locations, it is reasonable to expect that the material in the vicinity of PBL-10 would also exceed the arsenic SCO.

In the area immediately north of the recently demolished building there were nine (9) shallow soil borings that were sampled down to 4.5 ft.. Samples from two of the soil borings (S-02 and S-03) were analyzed for SVOCs. The samples had concentrations of benzo(a)pyrene at 0.52 mg/Kg (S-02) and 0.84 mg/Kg (S-03) which are just below the Residential and Industrial SCOs of 1.0 and 1.1 mg/Kg, respectively. Given that most of the PDI samples from this northern area had exceedances of benzo(a)pyrene ranging from 1.3 to 2.5 mg/Kg, and both of the historical samples from this northern area had concentrations just below the Part 375 SCOs, it is reasonable to expect that the material in the northern area will typically exceed the benzo(a)pyrene SCOs.

To assess what areas have insufficient data to complete the delineation of the soil remediation, a distance of approximately fifteen (15) beyond sample locations of Residential SCO exceedances was used. This distance was chosen to reflect the relatively large area to be assessed, and the heterogeneity of the fill material at the site. Based on this information, two (2) areas where there is insufficient data to complete the remediation were identified. These two (2) areas are both shown on **Figure 9** (SVOC exceedances) and **Figure 10** (metal exceedances). The first is a small rectangular area located adjacent to the southwestern corner of the recently demolished building footprint. The second is in the central area south of the recently demolished building.

6.0 SUMMARY PERSPECTIVE DRAWINGS

Figures 11 through 12 were prepared so that the reader can better visualize the extent of soil contamination in both the horizontal and vertical (areal and depth) dimensions. **Figure 11** presents the metal and SVOC Residential SCO exceedances at the Site in a three-dimensional layout to better depict the extent of the contamination. **Figure 11A** focuses on the north end of the Site, and **Figure 11B** focuses on the south end of the Site. **Figure 12** presents the metal and SVOC Industrial SCO exceedances at the Site in a three-dimensional layout to better depict the extent of the contamination. **Figure 12A** focuses on the north end of the Site, and **Figure 12B** focuses on the south end of the Site.

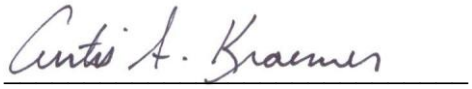
7.0 CONCLUSIONS AND RECOMMENDATIONS

A review of the data from the PDI shows that SVOC exceedances of the Part 375 Residential, Restricted Residential and Industrial SCOs are driving the delineation of the soil remediation in the PBL-1 area and the southern portion of the PBL-2 area. A combination of SVOC and metal exceedances of the Part 375 Residential, Restricted Residential and Industrial SCOs are driving the delineation of the soil remediation in the northern and eastern portions of the PBL-2 area and the PBL-5 area. Metal (in particular, arsenic) exceedances of the Part 375 Residential, Restricted Residential and Industrial SCOs are driving the delineation of the soil remediation in the PBL-7 and PBL-8 areas (nearly the eastern half of the area south of the recently demolished building).

The PDI confirmed the presence of the reported buried 1,500 gallon fuel oil tank at the north end of the site, but not the specific outline of the UST.

A review of the combined results of the PDI and historical investigations indicates that nearly every location sampled had either a SVOC or metal exceedance. This areal pervasiveness of the SCO exceedances is principally attributable to two (2) chemical constituents detected in the subsurface soils, benzo(a)pyrene, and arsenic. Shaw recommends that no further delineation be attempted, and that onsite soil/fill material located to the north and south of the recently demolished building be removed to a depth of the structural slab of the former generating station or to groundwater (whichever is encountered first).

PREPARED BY:



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TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC COMPOUNDS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-1								
Compass Direction				North	East				South		West	
Sample Name				PBL-1-5-N(12')	PBL-1-10-E(6')	PBL-1-20-E(8')	PBL-1-30-E(9')	PBL-1-30-E(9')F.D.	PBL-1-5-S(12')	PBL-1-10-S(10')	PBL-1-5-W(9')	PBL-1-10-W(10')
Sample Date				12/8/2009	12/10/2009	12/11/2009	12/15/2009	12/15/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009
Depth (ft. bgs)				12	6	8	9	9	12	10	9	10
VOCs (mg/Kg)	**Residential[a] (mg/Kg)**	**Restricted Residential[b] (mg/Kg)**	**Industrial[c] (mg/Kg)**									
Dichlorodifluoromethane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Chloromethane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
vinyl chloride	0.21	0.9	27	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Bromomethane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Chloroethane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Trichlorofluoromethane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,1-Dichloroethene	100	100	1,000	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,1,2-Trichloro-1,2,2-trifluoroethane	100	--	--	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Acetone	100	100	1,000	0.024 J	0.071	0.028	0.024 J	0.019 J	3.0 U	1.6 U	1.5 U	1.6 U
Carbon disulfide	100	--	--	0.028 U	0.0018 J	0.0065 U	0.020 J	0.018 J	0.20 J	0.084 J	0.13 J	0.62 U
Methyl acetate				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Methylene Chloride	51	100	1,000	0.11 U	0.024 U	0.026 U	0.010 JB	0.11 U	1.2 U	0.64 U	0.61 U	0.62 U
trans-1,2-Dichloroethene	100	100	1,000	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Methyl tert-butyl ether	62	100	1,000	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,1-Dichloroethane	19	26	480	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
cis-1,2-Dichloroethene	59	100	1,000	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Methyl Ethyl Ketone	100	100	1,000	0.055 U	0.012 U	0.013 U	0.059 U	0.056 U	0.40 J	0.34 J	0.18 U	0.22 J
Chloroform	10	49	700	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,1,1-Trichloroethane	100	100	1,000	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Cyclohexane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Carbon tetrachloride	1.4	2.4	44	0.028 U	0.006 U	0.0065 J	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Benzene	2.9	4.8	89	0.34	0.006 U	0.0065 U	0.023 J	0.019 J	0.38 J	0.17 J	0.097 J	0.62 U
1,2-Dichloroethane	2.3	3.1	60	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Trichloroethene	10			0.028 U	0.006 U	0.0065 J	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
methylcyclohexane				0.028 U	0.006 U	0.0065 U	0.011 J	0.010 J	1.2 U	0.64 U	0.047 J	0.62 U
1,2-Dichloropropane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Bromodichloromethane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
cis-1,3-Dichloropropene				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
methyl isobutyl ketone				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Toluene	100	100	1,000	0.07	0.0003 JB	0.00035 JB	0.028 JB	0.021 JB	5.8	7.2	0.38 J	1.6
trans-1,3-Dichloropropene				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,1,2-Trichloroethane				0.028 U	0.006 U	0.0065	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Tetrachloroethene	5.5	19	300	0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
2-Hexanone				0.055 U	0.012 U	0.013 U	0.059 U	0.056 U	1.2 U	0.64 U	0.61 U	0.62 U
Dibromochloromethane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,2-Dibromoethane				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Chlorobenzene	100	100	1,000	0.028 U	0.006 U	0.0065	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Ethylbenzene	30	41	780	0.68	0.006 U	0.0065 U	1.1	0.72	20	7.7	2.8	3.1
Xylenes, Total	100	100	1,000	0.52	0.006 U	0.0065 U	0.92	0.59	21	11	0.67	3.0
Styrene				0.0088	0.006 U	0.0065 U	0.070	0.048	1.2 U	2.4	0.19 J	0.62 U
Bromoform				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
Isopropylbenzene				0.028	0.00067 J	0.0065	0.25	0.20	2.4	0.27 J	0.30 J	0.22 J
1,1,2,2-Tetrachloroethane	35	--	--	0.028 U	0.006 U	0.0065	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,3-Dichlorobenzene				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,4-Dichlorobenzene				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,2-Dichlorobenzene				0.028 U	0.006 U	0.0065	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U
1,2-Dibromo-3-Chloropropane				0.055 U	0.012 U	0.013 U	0.059 U	0.056 U	1.2 U	0.64 U	0.61 U	0.62 U
1,2,4-trichlorobenzene				0.028 U	0.006 U	0.0065 U	0.03 U	0.028 U	1.2 U	0.64 U	0.61 U	0.62 U

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
B = This compound was detected in the laboratory method blank as well as the sample.
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = Residential Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
[b] = Restricted Residential Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
[c] = Industrial Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).

TABLE 1
SUMMARY OF VOLATILE ORGANIC COMPOUNDS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-2									
Compass Direction				North				East					
Sample Name				PBL-2-10-N(11')	PBL-2-30-N(10')	PBL-2-30-N(10')F.D.	PBL-2-60-N(11')	PBL-2-10-E(6')	PBL-2-10-E(10')	PBL-2-20-E(9')	PBL-2-30-E(9')	PBL-2-60-E(4')	PBL-2-60-E(4')F.D.
Sample Date				12/11/2009	12/15/2009	12/15/2009	12/15/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/15/2009	12/15/2009
Depth (ft. bgs)				11	10	10	11	6	10	9	9	4	4
VOCs (mg/Kg)	**Residential[a] (mg/Kg)**	**Restricted Residential[b] (mg/Kg)**	**Industrial[c] (mg/Kg)**										
Dichlorodifluoromethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Chloromethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
vinyl chloride	0.21	0.9	27	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Bromomethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Chloroethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Trichlorofluoromethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,1-Dichloroethene	100	100	1,000	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,1,2-Trichloro-1,2,2-trifluoroethane	100	--	--	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Acetone	100	100	1,000	0.0068 J	0.0079 J	0.0069 J	0.0073 J	0.024 U	0.019 J	0.0039 J	0.0098 J	0.025 U	0.026 U
Carbon disulfide	100	--	--	0.002 J	0.0027 J	0.0023 J	0.0028 J	0.006 U	0.00075 J	0.005 J	0.0024 J	0.0063 U	0.0065 U
Methyl acetate				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Methylene Chloride	51	100	1,000	0.025 U	0.026 U	0.025 U	0.027 U	0.024 U	0.024 U	0.022 U	0.025 U	0.025 U	0.026 U
trans-1,2-Dichloroethene	100	100	1,000	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Methyl tert-butyl ether	62	100	1,000	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,1-Dichloroethane	19	26	480	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
cis-1,2-Dichloroethene	59	100	1,000	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Methyl Ethyl Ketone	100	100	1,000	0.013 U	0.013 U	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	0.013 U
Chloroform	10	49	700	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,1,1-Trichloroethane	100	100	1,000	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Cyclohexane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Carbon tetrachloride	1.4	2.4	44	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Benzene	2.9	4.8	89	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,2-Dichloroethane	2.3	3.1	60	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Trichloroethene	10			0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
methylcyclohexane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0019 J	0.0061 U	0.0063 U	0.0065 U
1,2-Dichloropropane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Bromodichloromethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
cis-1,3-Dichloropropene				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
methyl isobutyl ketone				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Toluene	100	100	1,000	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.00016 JB	0.0003 JB	0.00025 JB	0.00024 JB	0.0063 U	0.0065 U
trans-1,3-Dichloropropene				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,1,2-Trichloroethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Tetrachloroethene	5.5	19	300	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
2-Hexanone				0.013 U	0.013 U	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	0.013 U
Dibromochloromethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,2-Dibromoethane				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Chlorobenzene	100	100	1,000	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Ethylbenzene	30	41	780	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0023 J	0.0061 U	0.0063 U	0.0065 U
Xylenes, Total	100	100	1,000	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.00063 J	0.0061 U	0.0063 U	0.0065 U
Styrene				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Bromoform				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
Isopropylbenzene				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0021 J	0.0018 J	0.0063 U	0.0065 U
1,1,2,2-Tetrachloroethane	35	--	--	0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,3-Dichlorobenzene				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,4-Dichlorobenzene				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,2-Dichlorobenzene				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U
1,2-Dibromo-3-Chloropropane				0.013 U	0.013 U	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	0.013 U
1,2,4-trichlorobenzene				0.0063 U	0.0065 U	0.0062 U	0.0067 U	0.006 U	0.0059 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
B = This compound was detected in the laboratory method blank as well as the sample.
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = Residential Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
[b] = Restricted Residential Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
[c] = Industrial Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).

TABLE 2
SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-1								
Compass Direction				North	East				South		West	
Sample Name				PBL-1-5-N(12')	PBL-1-10-E(6')	PBL-1-20-E(8')	PBL-1-30-E(9')	PBL-1-30-E(9')F.D.	PBL-1-5-S(12')	PBL-1-10-S(10')	PBL-1-5-W(9')	PBL-1-10-W(10')
Sample Date				12/8/2009	12/10/2009	12/11/2009	12/15/2009	12/15/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009
Depth (ft. bgs)				12	6	8	9	9	12	10	9	10
SVOCs	**Residential[a] (mg/Kg)**	**Restricted Residential (mg/Kg)**	**Industrial (mg/Kg)**									
Phenol	100	100	1,000	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2-Chlorophenol	400	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2-Methylphenol				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
4-Methylphenol	100	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2-Nitrophenol				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2,4-Dimethylphenol				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2,4-Dichlorophenol	2.0	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
4-Chloro-3-methylphenol				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2,4,6-Trichlorophenol				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2,4,5-Trichlorophenol				0.36 U	0.39 U	0.43 U	40.0 U	19.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2,4-Dinitrophenol	200	--	--	1.10 U	1.20 U	1.30 U	40.0 U	19.0 U	1.20 U	1.30 U	1.2 U	1.2 U
4-Nitrophenol				1.10 U	1.20 U	1.30 U	40.0 U	19.0 U	1.20 U	1.30 U	1.2 U	1.2 U
4,6-Dinitro-2-methylphenol				1.10 U	1.20 U	1.30 U	40.0 U	19.0 U	1.20 U	1.30 U	1.2 U	1.2 U
Pentachlorophenol	2.4	6.7	55	1.10 U	1.20 U	1.30 U	16.0 U	7.4 U	1.20 U	1.30 U	1.2 U	1.2 U
Bis(2-chloroethyl)ether				0.036 U	0.039 U	0.043 U	6.4 U	3.0 U	0.04 U	0.042 U	0.041 U	0.041 U
N-Nitrosodi-n-propylamine				0.036 U	0.039 U	0.043 U	6.4 U	3.0 U	0.04 U	0.042 U	0.041 U	0.041 U
Hexachloroethane				0.036 U	0.039 U	0.043 U	6.4 U	3.0 U	0.04 U	0.042 U	0.041 U	0.041 U
Nitrobenzene	3.7	15	140	0.036 U	0.039 U	0.043 U	6.4 U	3.0 U	0.04 U	0.042 U	0.041 U	0.041 U
Isophorone	100	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Bis-2-chloroethoxy)methane				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Naphthalene	100	100	1,000	0.70	0.39 U	0.18 J	16.0	9.5	2.3	0.76	7.8	2.2
4-Chloroaniline	200	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Hexachlorobutadiene				0.074 U	0.08 U	0.087 U	6.4 U	3.0 U	0.081 U	0.085 U	0.82 U	0.82 U
2-Methylnaphthalene				0.34 J	0.39 U	0.10 J	9.5	5.7	0.63	0.44	3.7	0.74
Hexachlorocyclopentadiene				0.36 U	0.39 U	0.43 U	16.0 U	7.4 U	0.40 U	0.42 U	0.41 U	0.41 U
2-Chloronaphthalene				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
2-Nitroaniline				0.74 U	0.80 U	0.87 U	16.0 U	7.4 U	0.81 U	0.85 U	0.82 U	0.82 U
Dimethyl phthalate	100	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Acenaphthylene				0.12 J	0.39 U	0.43 U	10.0	5.7	0.06 J	0.13 J	1.7	0.41 U
2,6-Dinitrotoluene				0.074 U	0.08 U	0.087 U	6.4 U	3.0 U	0.081 U	0.085 U	0.082 U	0.082 U
3-Nitroaniline				0.74 U	0.80 U	0.87 U	16.0 U	7.4 U	0.81 U	0.85 U	0.82 U	0.82 U
Acenaphthene	100	100	1,000	0.085 J	0.073 J	0.91	48.0	30.0	0.88	0.25 J	1.2	0.69
Dibenzofuran				0.36 U	0.39 U	0.43 U	3.4 J	2.0 J	0.40 U	0.42 U	0.16 J	0.41 U
2,4-Dinitrotoluene				0.074 U	0.08 U	0.087 U	6.4 U	3.0 U	0.08 U	0.085 U	0.082 U	0.082 U
Diethyl phthalate	100	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
4-Chlorophenyl phenyl ether				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Fluorene	100	100	1,000	0.11 J	0.093 J	1.10	31.0	15.0	0.50	0.21 J	1.3	0.25 J
4-Nitroaniline				0.74 U	0.80 U	0.87 U	6.4 U	3.0 U	0.81 U	0.85 U	0.82 U	0.82 U
N-Nitrosodiphenylamine				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
4-Bromophenyl phenyl ether				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Hexachlorobenzene	0.41	--	--	0.036 U	0.039 U	0.043 U	6.4 U	3.0 U	0.04 U	0.042 U	0.041 U	0.041 U
Phenanthrene	100	100	1,000	0.32 J	0.37 J	0.56	81.0	46.0	1.6	0.60	3.6	0.45
Anthracene	100	100	1,000	0.078 J	0.12 J	0.73	26.0 U	15.0 U	0.49	0.16 J	0.96	0.11 J
Carbazole				0.36 U	0.39 U	0.43 U	0.42 J	0.23 J	0.40 U	0.42 U	0.41 U	0.41 U
Di-n-butyl phthalate	100	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Fluoranthene	100	100	1,000	0.075 J	0.33 J	1.40	25.0	14.0	0.43	0.16 J	0.90	0.084 J
Pyrene	100	100	1,000	0.12 J	0.35 J	1.40 U	36.0	21.0	0.66	0.27 J	1.5	0.12 J
Butyl benzyl phthalate	100			0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
3,3'-Dichlorobenzidine				0.74 U	0.80 U	0.87 U	7.8 U	3.7 U	0.81 U	0.85 U	0.82 U	0.82 U
Benzo(a)anthracene	1	1	11	0.036 U	0.21	0.71	13.0 B	7.0	0.23	0.13	0.51	0.041 U
Chrysene	1	3.9	110	0.36 U	0.24 J	0.69	12.0	6.6	0.21 J	0.11 J	0.48	0.41 U
Bis(2-ethylhexyl)phthalate	50	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Di-n-octyl phthalate	100	--	--	0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Benzo(b)fluoranthene	1	1	11	0.036 U	0.23	0.65	6.7 B	3.9	0.11	0.13	0.21	0.019 J
Benzo(k)fluoranthene	1	3.9	110	0.036 U	0.10	0.26	2.9 J	1.6 J	0.06	0.069	0.12	0.041 U
Benzo(a)pyrene	1	1	1.1	0.029 J	0.21	0.54	9.5 B	5.4 U	0.16	0.16	0.32	0.019 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	11	0.0081 J	0.16	0.39	3.1 J	1.4 J	0.035 J	0.10	0.082	0.041 U
Dibenz(a,h)anthracene	0.33	0.33	1.1	0.036 U	0.046	0.089	0.77 J	0.38 J	0.04 U	0.026 J	0.041 U	0.041 U
Benzo(g,h,i)perylene	100	100	1,000	0.36 U	0.15 J	0.36 J	2.5 J	1.2 J	0.40 U	0.087 J	0.12 J	0.41 U
1,1'-Biphenyl				0.36 U	0.39 U	0.43 U	11.0	6.0 U	0.15 J	0.074 J	0.45	0.11 J
Acetophenone				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Benzaldehyde				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Caprolactam				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U
Atrazine				0.36 U	0.39 U	0.43 U	7.8 U	3.7 U	0.40 U	0.42 U	0.41 U	0.41 U
2,2'-oxybis(1-chloropropane)				0.36 U	0.39 U	0.43 U	6.4 U	3.0 U	0.40 U	0.42 U	0.41 U	0.41 U

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
B = This compound was detected in the laboratory method blank as well as the sample.
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = Residential Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
[b] = Table 3 - Soil Cleanup Levels for Fuel Oil Contaminated Soils (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
Green shaded values exceed the Part 375 Residential Soil Cleanup Objective.
Yellow shaded values exceed the Part 375 Restricted Residential Soil Cleanup Objective.
Orange shaded values exceed the Part 375 Industrial Soil Cleanup Objective.

TABLE 2
SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-2										PBL-5				
Compass Direction				North				East						North		East	South	West
Sample Name				PBL-2-10-N(11')	PBL-2-30-N(10')	PBL-2-30-N(10')F.D.	PBL-2-60-N(11')	PBL-2-10-E(6')	PBL-2-10-E(10')	PBL-2-20-E(9')	PBL-2-30-E(9')	PBL-2-60-E(4')	PBL-2-60-E(4')F.D.	PBL-5-5-N(6')	PBL-5-10-N(5')	PBL-5-10-E(4')	PBL-5-10-S(2')	PBL-5-2-W(7')
Sample Date				12/11/2009	12/15/2009	12/15/2009	12/15/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/15/2009	12/15/2009	12/14/2009	12/14/2009	12/14/2009	12/14/2009	12/14/2009
Depth (ft. bgs)				11	10	10	11	6	10	9	9	4	4	6	5	4	2	7
SVOCs	**Residential[a] (mg/Kg)**	**Restricted Residential (mg/Kg)**	**Industrial (mg/Kg)**															
Phenol	100	100	1,000	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2-Chlorophenol	400	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2-Methylphenol				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
4-Methylphenol	100	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2-Nitrophenol				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2,4-Dimethylphenol				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2,4-Dichlorophenol	2.0	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
4-Chloro-3-methylphenol				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2,4,6-Trichlorophenol				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2,4,5-Trichlorophenol				0.41 U	2.2 U	2.1 U	2.3 U	0.40 U	0.39 U	0.36 U	0.41 U	2.1 U	2.2 U	1.9 U	1.9 U	2.1 U	19 U	1.9 U
2,4-Dinitrophenol	200	--	--	1.3 U	2.2 U	2.1 U	2.3 U	1.2 U	1.2 U	1.1 U	1.2 U	2.1 U	2.2 U	1.9 U	1.9 U	2.1 U	19 U	1.9 U
4-Nitrophenol				1.3 U	2.2 U	2.1 U	2.3 U	1.2 U	1.2 U	1.1 U	1.2 U	2.1 U	2.2 U	1.9 U	1.9 U	2.1 U	19 U	1.9 U
4,6-Dinitro-2-methylphenol				1.3 U	2.2 U	2.1 U	2.3 U	1.2 U	1.2 U	1.1 U	1.2 U	2.1 U	2.2 U	1.9 U	1.9 U	2.1 U	19 U	1.9 U
Pentachlorophenol	2.4	6.7	55	1.3 U	0.86 U	0.82 U	0.90 U	1.2 U	1.2 U	1.1 U	1.2 U	0.82 U	0.87 U	0.76 U	0.76 U	0.81 U	7.3 U	0.76 U
Bis(2-chloroethyl)ether				0.041 U	0.35 U	0.33 U	0.36 U	0.040 U	0.039 U	0.036 U	0.041 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
N-Nitrosodi-n-propylamine				0.041 U	0.35 U	0.33 U	0.36 U	0.040 U	0.039 U	0.036 U	0.041 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Hexachloroethane				0.041 U	0.35 U	0.33 U	0.36 U	0.040 U	0.039 U	0.036 U	0.041 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Nitrobenzene	3.7	15	140	0.041 U	0.35 U	0.33 U	0.36 U	0.040 U	0.039 U	0.036 U	0.041 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Isophorone	100	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Bis-2-chloroethoxy)methane				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Naphthalene	100	100	1,000	0.41 U	0.10 J	0.10 J	0.032 J	0.40 U	0.39 U	0.056 J	0.16 J	0.16 J	0.15 J	0.081 J	0.30 U	0.061 J	0.23 J	0.049 J
4-Chloroaniline	200	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Hexachlorobutadiene				0.82 U	0.35 U	0.33 U	0.36 U	0.081 U	0.079 U	0.073 U	0.82 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2-Methylnaphthalene				0.41 U	0.077 J	0.074 J	0.029 J	0.40 U	0.39 U	0.36 U	0.074 J	0.22 J	0.20 J	0.039 J	0.30 U	0.048 J	0.20 J	0.044 J
Hexachlorocyclopentadiene				0.41 U	0.86 U	0.82 U	0.90 U	0.40 U	0.39 U	0.36 U	0.41 U	0.82 U	0.87 U	0.76 U	0.76 U	0.81 U	7.3 U	0.76 U
2-Chloronaphthalene				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
2-Nitroaniline				0.82 U	0.86 U	0.82 U	0.90 U	0.81 U	0.79 U	0.73 U	0.82 U	0.82 U	0.87 U	0.76 U	0.76 U	0.81 U	7.3 U	0.76 U
Dimethyl phthalate	100	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Acenaphthylene				0.41 U	0.099 J	0.07 J	0.36 U	0.40 U	0.39 U	0.36 U	0.079 J	0.029 J	0.021 J	0.028 J	0.30 U	0.017 J	2.9 U	0.16 J
2,6-Dinitrotoluene				0.082 U	0.35 U	0.33 U	0.36 U	0.081 U	0.079 U	0.073 U	0.082 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
3-Nitroaniline				0.82 U	0.86 U	0.82 U	0.90 U	0.81 U	0.79 U	0.73 U	0.82 U	0.82 U	0.87 U	0.76 U	0.76 U	0.81 U	7.3 U	0.76 U
Acenaphthene	100	100	1,000	0.41 U	0.053 J	0.033 J	0.36 U	0.40 U	0.39 U	0.12 J	0.39 J	0.041 J	0.057 J	0.31 U	0.30 U	0.081 J	0.53 J	0.064 J
Dibenzofuran				0.41 U	0.037 J	0.024 J	0.36 U	0.40 U	0.39 U	0.36 U	0.18 J	0.073 J	0.079 J	0.31 U	0.30 U	0.061 J	0.24 J	0.034 J
2,4-Dinitrotoluene				0.082 U	0.35 U	0.33 U	0.36 U	0.081 U	0.079 U	0.073 U	0.082 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Diethyl phthalate	100	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
4-Chlorophenyl phenyl ether				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Fluorene	100	100	1,000	0.41 U	0.082 J	0.053 J	0.024 J	0.40 U	0.39 U	0.36 U	0.39 J	0.033 J	0.046 J	0.31 U	0.30 U	0.082 J	0.38 J	0.060 J
4-Nitroaniline				0.82 U	0.35 U	0.33 U	0.36 U	0.81 U	0.79 U	0.73 U	0.82 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
N-Nitrosodiphenylamine				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
4-Bromophenyl phenyl ether				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Hexachlorobenzene	0.41	--	--	0.041 U	0.35 U	0.33 U	0.36 U	0.040 U	0.039 U	0.036 U	0.041 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Phenanthrene	100	100	1,000	0.41 U	0.52	0.35	0.07 J	0.18 J	0.39 U	0.21 J	1.7	0.62	0.71	0.050 J	0.30 U	0.93	2.9 J	1.1
Anthracene	100	100	1,000	0.41 U	0.19 J	0.13 J	0.032 J	0.40 U	0.39 U	0.20 J	0.48	0.079 J	0.10 J	0.31 U	0.30 U	0.29 J	0.69 J	0.33
Carbazole				0.41 U	0.041 J	0.034 J	0.36 U	0.40 U	0.39 U	0.36 U	0.13 J	0.046 J	0.054 J	0.31 U	0.30 U	0.11 J	2.9 U	0.23 J
Di-n-butyl phthalate	100	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.054 J	0.35 U	0.31 U	0.30 U	0.33 U	0.48 J	0.31 U
Fluoranthene	100	100	1,000	0.27 J	0.67	0.54	0.084 J	0.30 J	0.22 J	0.15 J	0.95	0.66	0.84	0.042 J	0.023 J	2.5	3.9	2.5
Pyrene	100	100	1,000	0.52	2.1	1.5	0.25 J	0.35 J	0.35 J	0.40	1.2	0.61	0.78	0.047 J	0.023 J	3.2	3.7	3.3
Butyl benzyl phthalate	100			0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.026 J	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
3,3'-Dichlorobenzidine				0.82 U	0.42 U	0.41 U	0.44 U	0.81 U	0.79 U	0.73 U	0.82 U	0.41 U	0.43 U	0.38 U	0.37 U	0.40 U	3.6 U	0.38 U
Benzo(a)anthracene	1	1	11	0.20	0.54	0.40	0.059 J	0.22	0.11	0.19	0.47	0.44	0.59	0.31 U	0.30 U	2.0	1.7 J	1.4
Chrysene	1	3.9	110	0.21 J	0.59	0.43	0.051 J	0.21 J	0.11 J	0.26 J	0.46	0.75	0.90	0.31 U	0.30 U	2.0	1.6 J	1.4
Bis(2-ethylhexyl)phthalate	50	--	--	0.41 U	0.18 JB	0.14 JB	0.044 JB	0.40 U	0.39 U	0.049 J	0.41 U	0.15 JB	0.12 JB	0.14 JB	0.17 JB	0.23 JB	0.32 JB	0.18 JB
Di-n-octyl phthalate	100	--	--	0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.030 J	0.31 U	0.30 U	2.9 U	0.31	
Benzo(b)fluoranthene	1	1	11	0.13	0.83	0.57	0.05 J	0.23	0.06	0.053	0.41	0.74	0.90	0.27 J	0.27 J	2.5	4.0	1.5
Benzo(k)fluoranthene	1	3.9	110	0.054	0.27 J	0.23 J	0.36 U	0.11	0.039 U	0.036 U	0.17	0.25 J	0.33 J	0.31 U	0.30 U	1.0	0.70 J	0.53
Benzo(a)pyrene	1	1	1.1	0.097	0.71	0.54	0.046 J	0.22	0.055 U	0.055	0.34	0.38	0.49	0.019 J	0.010 J	2.5	1.4 J	1.3
Indeno(1,2,3-cd)pyrene	0.5	0.5	11	0.051	0.38	0.27 J	0.36 U	0.12	0.039 U	0.036 U	0.19	0.33 J	0.40	0.31 U	0.30 U	2.4	1.3 J	1.3
Dibenz(a,h)anthracene	0.33	0.33	1.1	0.041 U	0.098 J	0.067 J	0.36 U	0.035 J	0.039 U	0.036 U	0.055	0.095 J	0.12 J	0.31 U	0.30 U	0.58	0.26 J	0.27 J
Benzo(g,h,i)perylene	100	100	1,000	0.065 J	0.38	0.25 J	0.36 U	0.40 U	0.39 U	0.36 U	0.18 J	0.29 J	0.35 J	0.31 U	0.30 U	2.0	1.1 J	1.2
1,1'-Biphenyl				0.11 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.094 J	0.066 J	0.066 J	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Acetophenone				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Benzaldehyde				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.47	0.48	0.31 U	0.30 U	0.33 U	2.9 U	0.10 J
Caprolactam				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U
Atrazine				0.41 U	0.42 U	0.41 U	0.44 U	0.40 U	0.39 U	0.36 U	0.41 U	0.41 U	0.43 U	0.38 U	0.37 U	0.40 U	3.6 U	0.38 U
2,2'-oxybis(1-chloropropane)				0.41 U	0.35 U	0.33 U	0.36 U	0.40 U	0.39 U	0.36 U	0.41 U	0.33 U	0.35 U	0.31 U	0.30 U	0.33 U	2.9 U	0.31 U

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
B = This compound was detected in the laboratory method blank as well as the sample.
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = Residential Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
[b] = Table 3 - Soil Cleanup Levels for Fuel Oil Contaminated Soils (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
Green shaded values exceed the Part 375 Residential Soil Cleanup Objective.
Yellow shaded values exceed the Part 375 Restricted Residential Soil Cleanup Objective.
Orange shaded values exceed the Part 375 Industrial Soil Cleanup Objective.

TABLE 2
SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-7													
Compass Direction				North						East		South				West	
Sample Name				PBL-7-5-N(6')	PBL-7-5-N(8')	PBL-7-10-N(6')	PBL-7-10-N(9')	PBL-7-20-N(5')	PBL-7-20-N(10')	PBL-7-5-E(8')	PBL-7-10-E(8')	PBL-7-5-S(8')	PBL-7-10-S(6')	PBL-7-10-S(9')	PBL-7-20-S(10')	PBL-7-2-W(5')	PBL-7-2-W(9')	PBL-7-20-W(5')	PBL-7-20-W(7')
Sample Date				12/9/2009	12/9/2009	12/9/2009	12/9/2009	12/10/2009	12/10/2009	12/9/2009	12/9/2009	12/9/2009	12/9/2009	12/9/2009	12/10/2009	12/9/2009	12/95/2009	12/9/2009	12/9/2009
Depth (ft. bgs)				6	8	6	9	5	10	8	8	8	6	9	10	5	9	5	7
SVOCs	**Residential[a] (mg/Kg)**	**Restricted Residential (mg/Kg)**	**Industrial (mg/Kg)**																
Phenol	100	100	1,000	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2-Chlorophenol	400	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2-Methylphenol				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
4-Methylphenol	100	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2-Nitrophenol				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2,4-Dimethylphenol				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2,4-Dichlorophenol	2.0	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
4-Chloro-3-methylphenol				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2,4,6-Trichlorophenol				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2,4,5-Trichlorophenol				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2,4-Dinitrophenol	200	--	--	1.1 U	1.3 U	1.1 U	2.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.10 U	2.6 U	1.1 U	1.10 U	1.4 U	1.3 U	1.40 U
4-Nitrophenol				1.1 U	1.3 U	1.1 U	2.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.10 U	2.6 U	1.1 U	1.10 U	1.4 U	1.3 U	1.40 U
4,6-Dinitro-2-methylphenol				1.1 U	1.3 U	1.1 U	2.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.10 U	2.6 U	1.1 U	1.10 U	1.4 U	1.3 U	1.40 U
Pentachlorophenol	2.4	6.7	55	1.1 U	1.3 U	1.1 U	2.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.10 U	2.6 U	1.1 U	1.10 U	1.4 U	1.3 U	1.40 U
Bis(2-chloroethyl)ether				0.035 U	0.042 U	0.038 U	0.077 U	0.039 U	0.043 U	0.043 U	0.038 U	0.040 U	0.037 U	0.085 U	0.035 U	0.037 U	0.046 U	0.043 U	0.047 U
N-Nitrosodi-n-propylamine				0.035 U	0.042 U	0.038 U	0.077 U	0.039 U	0.043 U	0.043 U	0.038 U	0.040 U	0.037 U	0.085 U	0.035 U	0.037 U	0.046 U	0.043 U	0.047 U
Hexachloroethane				0.035 U	0.042 U	0.038 U	0.077 U	0.039 U	0.043 U	0.043 U	0.038 U	0.040 U	0.037 U	0.085 U	0.035 U	0.037 U	0.046 U	0.043 U	0.047 U
Nitrobenzene	3.7	15	140	0.035 U	0.042 U	0.038 U	0.077 U	0.039 U	0.043 U	0.043 U	0.038 U	0.040 U	0.037 U	0.085 U	0.035 U	0.037 U	0.046 U	0.043 U	0.047 U
Isophorone	100	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Bis-2-chloroethoxy)methane				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Naphthalene	100	100	1,000	0.35 U	0.083 J	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.23 J	0.067 J	0.37 U	0.46 U	0.43 U	0.47 U
4-Chloroaniline	200	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Hexachlorobutadiene				0.071 U	0.085 U	0.076 U	0.16 U	0.078 U	0.087 U	0.087 U	0.078 U	0.081 U	0.076 U	0.17 U	0.072 U	0.076 U	0.093 U	0.088 U	0.096 U
2-Methylnaphthalene				0.35 U	0.12 J	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.06 J	0.11 J	0.37 U	0.85 U	0.10 J	0.37 U	0.46 U	0.43 U	0.08 J
Hexachlorocyclopentadiene				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2-Chloronaphthalene				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2-Nitroaniline				0.71 U	0.85 U	0.76 U	1.6 U	0.78 U	0.87 U	0.87 U	0.78 U	0.81 U	0.76 U	1.7 U	0.72 U	0.76 U	0.93 U	0.88 U	0.96 U
Dimethyl phthalate	100	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Acenaphthylene				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2,6-Dinitrotoluene				0.071 U	0.085 U	0.076 U	0.16 U	0.078 U	0.087 U	0.087 U	0.078 U	0.081 U	0.076 U	0.17 U	0.072 U	0.076 U	0.093 U	0.088 U	0.096 U
3-Nitroaniline				0.71 U	0.85 U	0.76 U	1.6 U	0.78 U	0.87 U	0.87 U	0.78 U	0.81 U	0.76 U	1.7 U	0.72 U	0.76 U	0.93 U	0.88 U	0.96 U
Acenaphthene	100	100	1,000	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.61 J	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Dibenzofuran				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2,4-Dinitrotoluene				0.071 U	0.085 U	0.076 U	0.16 U	0.078 U	0.087 U	0.087 U	0.078 U	0.081 U	0.076 U	0.17 U	0.072 U	0.076 U	0.093 U	0.088 U	0.096 U
Diethyl phthalate	100	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
4-Chlorophenyl phenyl ether				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Fluorene	100	100	1,000	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
4-Nitroaniline				0.71 U	0.85 U	0.76 U	1.6 U	0.78 U	0.87 U	0.87 U	0.78 U	0.81 U	0.76 U	1.7 U	0.72 U	0.76 U	0.93 U	0.88 U	0.96 U
N-Nitrosodiphenylamine				0.35 U	0.41 J	0.38 U	0.47 J	0.39 U	0.43 U	0.43 U	0.25 J	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
4-Bromophenyl phenyl ether				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Hexachlorobenzene	0.41	--	--	0.035 U	0.042 U	0.038 U	0.077 U	0.039 U	0.043 U	0.043 U	0.038 U	0.040 U	0.037 U	0.085 U	0.035 U	0.037 U	0.046 U	0.043 U	0.047 U
Phenanthrene	100	100	1,000	0.35 U	0.37 J	0.38 U	0.26 J	0.068 J	0.43 U	0.43 U	0.13 J	0.44	0.37 U	1.4	0.13 J	0.09 J	0.46 U	0.43 U	0.18 J
Anthracene	100	100	1,000	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.12 J	0.37 U	0.79 J	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Carbazole				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Di-n-butyl phthalate	100	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Fluoranthene	100	100	1,000	0.35 U	0.42	0.38 U	0.28 J	0.39 U	0.43 U	0.43 U	0.38 U	0.77	0.37 U	3.7	0.19 J	0.10 J	0.46 U	0.43 U	0.20 J
Pyrene	100	100	1,000	0.35 U	0.29 J	0.38 U	0.24 J	0.39 U	0.43 U	0.43 U	0.38 U	0.64	0.37 U	3.9	0.25 J	0.072 J	0.46 U	0.43 U	0.15 J
Butyl benzyl phthalate	100			0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
3,3'-Dichlorobenzidine				0.71 U	0.85 U	0.76 U	1.6 U	0.78 U	0.87 U	0.87 U	0.78 U	0.81 U	0.76 U	1.7 U	0.72 U	0.76 U	0.93 U	0.88 U	0.96 U
Benzo(a)anthracene	1	1	11	0.043	0.33	0.044	0.17	0.047	0.029 J	0.043 U	0.038 U	0.40	0.037 U	1.4	0.15	0.037 U	0.046 U	0.043 U	0.10
Chrysene	1	3.9	110	0.035 U	0.54	0.072 J	0.21 J	0.091 J	0.43 U	0.43 U	0.38 U	0.47	0.37 U	1.9	0.18 J	0.37 U	0.46 U	0.43 U	0.20 J
Bis(2-ethylhexyl)phthalate	50	--	--	0.076 J	0.42 U	0.38 U	0.77 U	0.15 J	0.43 U	0.43 U	0.38 U	0.24 J	0.37 U	0.35 J	0.16 J	0.37 U	0.46 U	0.43 U	0.47 U
Di-n-octyl phthalate	100	--	--	0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Benzo(b)fluoranthene	1	1	11	0.039	0.042 U	0.064	0.077 U	0.05	0.028 J	0.021 J	0.038 U	0.36	0.037 U	1.3	0.25	0.037 U	0.046 U	0.043 U	0.12
Benzo(k)fluoranthene	1	3.9	110	0.035 U	0.042 U	0.038 U	0.077 U	0.039 U	0.043 U	0.043 U	0.038 U	0.13	0.037 U	0.54	0.094	0.037 U	0.046 U	0.043 U	0.038 J
Benzo(a)pyrene	1	1	1.1	0.33 J	0.042 U	0.027 J	0.077 U	0.026 J	0.016 J	0.043 U	0.038 U	0.27	0.037 U	0.75	0.17	0.037 U	0.046 U	0.043 U	0.041 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	11	0.035 U	0.12	0.038 U	0.077 U	0.039 U	0.043 U	0.043 U	0.038 U	0.18	0.037 U	0.40	0.14	0.037 U	0.046 U	0.043 U	0.070
Dibenz(a,h)anthracene	0.33	0.33	1.1	0.035 U	0.042 U	0.038 U	0.077 U	0.039 U	0.043 U	0.043 U	0.038 U	0.046	0.037 U	0.14	0.039	0.037 U	0.046 U	0.043 U	0.047 U
Benzo(g,h,i)perylene	100	100	1,000	0.35 U	0.13 J	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.17 J	0.37 U	0.40 J	0.16 J	0.37 U	0.46 U	0.43 U	0.071 J
1,1'-Biphenyl				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Acetophenone				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Benzaldehyde				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Caprolactam				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
Atrazine				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U
2,2'-oxybis(1-chloropropane)				0.35 U	0.42 U	0.38 U	0.77 U	0.39 U	0.43 U	0.43 U	0.38 U	0.40 U	0.37 U	0.85 U	0.35 U	0.37 U	0.46 U	0.43 U	0.47 U

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
B = This compound was detected in the laboratory method blank as well as the sample.
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = Residential Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
[b] = Table 3 - Soil Cleanup Levels for Fuel Oil Contaminated Soils (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
Green shaded values exceed the Part 375 Residential Soil Cleanup Objective.
Yellow shaded values exceed the Part 375 Restricted Residential Soil Cleanup Objective.
Orange shaded values exceed the Part 375 Industrial Soil Cleanup Objective.

TABLE 2
SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-8																
Compass Direction				North		East					South							West		
Sample Name				PBL-8-10-N(5')	PBL-8-10-N(9.5')	PBL-8-5-E(5')	PBL-8-5-E(9.5')	PBL-8-10-E(6')	PBL-8-10-E(10')	PBL-8-20-E(10')	PBL-8-5-S(5')	PBL-8-5-S(9.5')	PBL-8-10-S(5')	PBL-8-10-S(9')	PBL-8-20-S(6')	PBL-8-20-S(11')	PBL-8-60-S(12')	PBL-8-5-W(5')	PBL-8-5-W(10')	PBL-8-10-W(8')
Sample Date				12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/11/2009	12/11/2009	12/15/2009	12/9/2009	12/9/2009	12/9/2009
Depth (ft. bgs)				5	9.5	5	9.5	6	10	10	5	9.5	5	9	6	11	12	5	10	8
SVOCs	**Residential[a] (mg/Kg)**	**Restricted Residential (mg/Kg)**	**Industrial (mg/Kg)**																	
Phenol	100	100	1,000	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2-Chlorophenol	400	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2-Methylphenol				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
4-Methylphenol	100	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2-Nitrophenol				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2,4-Dimethylphenol				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2,4-Dichlorophenol	2.0	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
4-Chloro-3-methylphenol				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2,4,6-Trichlorophenol				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2,4,5-Trichlorophenol				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	2.0 U	0.43 U	2.2 U	0.40 U
2,4-Dinitrophenol	200	--	--	1.3 U	8.1 U	1.2 U	3.4 U	1.2 U	2.7 U	1.10 U	1.3 U	3.2 U	1.2 U	3.1 U	1.1 U	1.4 U	2.0 U	1.3 U	6.7 U	1.2 U
4-Nitrophenol				1.3 U	8.1 U	1.2 U	3.4 U	1.2 U	2.7 U	1.10 U	1.3 U	3.2 U	1.2 U	3.1 U	1.1 U	1.4 U	2.0 U	1.3 U	6.7 U	1.2 U
4,6-Dinitro-2-methylphenol				1.3 U	8.1 U	1.2 U	3.4 U	1.2 U	2.7 U	1.10 U	1.3 U	3.2 U	1.2 U	3.1 U	1.1 U	1.4 U	2.0 U	1.3 U	6.7 U	1.2 U
Pentachlorophenol	2.4	6.7	55	1.3 U	8.1 U	1.2 U	3.4 U	1.2 U	2.7 U	1.10 U	1.3 U	3.2 U	1.2 U	3.1 U	1.1 U	1.4 U	0.81 U	1.3 U	6.7 U	1.2 U
Bis(2-chloroethyl)ether				0.042 U	0.27 U	0.041 U	0.11 U	0.040 U	0.088 U	0.038 U	0.043 U	0.11 U	0.040 U	0.10 U	0.036 U	0.046 U	0.32 U	0.043 U	0.22 U	0.040 U
N-Nitrosodi-n-propylamine				0.042 U	0.27 U	0.041 U	0.11 U	0.040 U	0.088 U	0.038 U	0.043 U	0.11 U	0.040 U	0.10 U	0.036 U	0.046 U	0.32 U	0.043 U	0.22 U	0.040 U
Hexachloroethane				0.042 U	0.27 U	0.041 U	0.11 U	0.040 U	0.088 U	0.038 U	0.043 U	0.11 U	0.040 U	0.10 U	0.036 U	0.046 U	0.32 U	0.043 U	0.22 U	0.040 U
Nitrobenzene	3.7	15	140	0.042 U	0.27 U	0.041 U	0.11 U	0.040 U	0.088 U	0.038 U	0.043 U	0.11 U	0.040 U	0.10 U	0.036 U	0.046 U	0.32 U	0.043 U	0.22 U	0.040 U
Isophorone	100	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Bis-2-chloroethoxy)methane				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Naphthalene	100	100	1,000	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	0.54 J	0.36 U	0.46 U	0.26 J	0.43 U	2.2 U	0.26 J
4-Chloroaniline	200	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Hexachlorobutadiene				0.085 U	0.54 U	0.083 U	0.23 U	0.082 U	0.18 U	0.077 U	0.087 U	0.22 U	0.081 U	0.21 U	0.074 U	0.094 U	0.32 U	0.088 U	0.45 U	0.081 U
2-Methylnaphthalene				0.22 J	2.0 J	0.12 J	0.52 J	0.40 U	0.18 J	0.38 U	0.43 U	1.1 U	0.40 U	1.1	0.36 U	0.46 U	0.07 J	0.43 U	2.2 U	0.52
Hexachlorocyclopentadiene				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.81 U	0.43 U	2.2 U	0.40 U
2-Chloronaphthalene				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2-Nitroaniline				0.85 U	5.4 U	0.83 U	2.3 U	0.82 U	1.8 U	0.77 U	0.87 U	2.2 U	0.81 U	2.1 U	0.74 U	0.94 U	0.81 U	0.88 U	4.5 U	0.81 U
Dimethyl phthalate	100	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Acenaphthylene				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.017 J	0.43 U	2.2 U	0.40 U
2,6-Dinitrotoluene				0.085 U	0.54 U	0.083 U	0.23 U	0.082 U	0.18 U	0.077 U	0.087 U	0.22 U	0.081 U	0.21 U	0.074 U	0.094 U	0.32 U	0.088 U	0.45 U	0.081 U
3-Nitroaniline				0.85 U	5.4 U	0.83 U	2.3 U	0.82 U	1.8 U	0.77 U	0.87 U	2.2 U	0.81 U	2.1 U	0.74 U	0.94 U	0.81 U	0.88 U	4.5 U	0.81 U
Acenaphthene	100	100	1,000	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	0.56 J	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Dibenzofuran				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	0.38 J	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
2,4-Dinitrotoluene				0.085 U	0.54 U	0.083 U	0.23 U	0.082 U	0.18 U	0.077 U	0.087 U	0.22 U	0.081 U	0.21 U	0.074 U	0.094 U	0.32 U	0.088 U	0.45 U	0.081 U
Diethyl phthalate	100	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
4-Chlorophenyl phenyl ether				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Fluorene	100	100	1,000	0.42 U	1.2 J	0.41 U	0.43 J	0.40 U	0.88 U	0.38 U	0.43 U	0.47 J	0.40 U	0.61 J	0.36 U	0.46 U	0.32 U	0.43 U	2.7	0.40 U
4-Nitroaniline				0.85 U	5.4 U	0.83 U	2.3 U	0.82 U	1.8 U	0.77 U	0.87 U	2.2 U	0.81 U	2.1 U	0.74 U	0.94 U	0.81 U	0.88 U	4.5 U	0.81 U
N-Nitrosodiphenylamine				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
4-Bromophenyl phenyl ether				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Hexachlorobenzene	0.41	--	--	0.042 U	0.27 U	0.041 U	0.11 U	0.040 U	0.088 U	0.038 U	0.043 U	0.11 U	0.040 U	0.10 U	0.036 U	0.046 U	0.32 U	0.043 U	0.22 U	0.040 U
Phenanthrene	100	100	1,000	0.28 J	2.7 U	0.38 J	1.1 U	0.071 J	0.88 U	0.42	0.43 U	1.1 U	0.40 U	0.27 J	0.36 U	0.46 U	0.32 J	0.43 U	2.2 U	0.40 U
Anthracene	100	100	1,000	0.42 U	2.7 U	0.12 J	1.1 U	0.40 U	0.88 U	0.098 J	0.43 U	1.1 U	0.40 U	0.49 J	0.36 U	0.46 U	0.046 J	0.43 U	2.2 U	0.40 U
Carbazole				0.42 U	2.7 U	0.066 J	1.1 U	0.40 U	0.88 U	0.061 J	0.43 U	1.1 U	0.40 U	0.29 J	0.36 U	0.46 U	0.024 J	0.43 U	2.2 U	0.40 U
Di-n-butyl phthalate	100	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.050 J	0.43 U	2.2 U	0.40 U
Fluoranthene	100	100	1,000	0.25 J	2.7 U	0.38 J	1.1 U	0.11 J	0.88 U	0.56	0.43 U	1.1 U	0.40 U	1.7	0.36 U	0.094 J	0.30 J	0.43 U	2.2 U	0.40 U
Pyrene	100	100	1,000	0.20 J	2.7 U	0.28 J	1.1 U	0.089 J	0.88 U	0.59	0.43 U	1.1 U	0.40 U	1.2	0.36 U	0.11 J	0.33	0.43 U	2.2 U	0.40 U
Butyl benzyl phthalate	100			0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
3,3'-Dichlorobenzidine				0.85 U	5.4 U	0.83 U	2.3 U	0.82 U	1.8 U	0.77 U	0.87 U	2.2 U	0.81 U	2.1 U	0.74 U	0.94 U	0.40 U	0.88 U	4.5 U	0.81 U
Benzo(a)anthracene	1	1	11	0.12	0.27 U	0.22	0.11 U	0.04 U	0.088 U	0.34	0.043 U	0.11 U	0.040 U	0.38	0.036 U	0.046 U	0.16 J	0.043 U	0.22 U	0.040 U
Chrysene	1	3.9	110	0.14 J	2.7 U	0.19 J	1.1 U	0.40 U	0.88 U	0.32 J	0.43 U	1.1 U	0.40 U	0.29 J	0.36 U	0.46 U	0.24 J	0.43 U	2.2 U	0.40 U
Bis(2-ethylhexyl)phthalate	50	--	--	0.21 J	2.7 U	0.51	1.1 U	0.34 J	0.88 U	0.38 U	0.22 J	0.26 J	0.11 J	0.28 J	0.36 U	0.16 J	2.9 B	0.16 J	2.2 U	0.32 J
Di-n-octyl phthalate	100	--	--	0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Benzo(b)fluoranthene	1	1	11	0.14	0.27 U	0.23	0.11 U	0.095	0.088 U	0.38	0.043 U	0.11 U	0.040 U	0.16	0.036 U	0.03 J	0.24 J	0.043 U	0.22 U	0.065
Benzo(k)fluoranthene	1	3.9	110	0.047	0.27 U	0.062	0.11 U	0.046	0.088 U	0.15	0.043 U	0.11 U	0.040 U	0.10 U	0.036 U	0.046 U	0.064 J	0.043 U	0.22 U	0.040 U
Benzo(a)pyrene	1	1	1.1	0.11	0.27 U	0.17	0.11 U	0.082	0.088 U	0.27	0.043 U	0.11 U	0.040 U	0.11	0.036 U	0.046 U	0.17 J	0.043 U	0.22 U	0.030 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	11	0.072	0.27 U	0.12	0.11 U	0.074	0.088 U	0.19	0.043 U	0.11 U	0.040 U	0.10 U	0.036 U	0.046 U	0.10 J	0.043 U	0.22 U	0.034 J
Dibenz(a,h)anthracene	0.33	0.33	1.1	0.042 U	0.27 U	0.022 J	0.11 U	0.040 U	0.088 U	0.068	0.043 U	0.11 U	0.040 U	0.10 U	0.036 U	0.046 U	0.026 J	0.043 U	0.22 U	0.040 U
Benzo(g,h,i)perylene	100	100	1,000	0.086 J	2.7 U	0.14 J	1.1 U	0.090 J	0.88 U	0.18 J	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.11 J	0.43 U	2.2 U	0.40 U
1,1'-Biphenyl				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.021 J	0.43 U	2.2 U	0.14 J
Acetophenone				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Benzaldehyde				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U
Caprolactam				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.044 J	0.43 U	2.2 U	0.40 U
Atrazine				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.40 U	0.43 U	2.2 U	0.40 U
2,2'-oxybis(1-chloropropane)				0.42 U	2.7 U	0.41 U	1.1 U	0.40 U	0.88 U	0.38 U	0.43 U	1.1 U	0.40 U	1.0 U	0.36 U	0.46 U	0.32 U	0.43 U	2.2 U	0.40 U

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
B = This compound was detected in the laboratory method blank as well as the sample.
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = Residential Soil Cleanup Objectives and Supplement Soil Cleanup Objectives (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
[b] = Table 3 - Soil Cleanup Levels for Fuel Oil Contaminated Soils (NYSDEC Draft CP/Soil Cleanup Guidance, 11/4/09).
Green shaded values exceed the Part 375 Residential Soil Cleanup Objective.
Yellow shaded values exceed the Part 375 Restricted Residential Soil Cleanup Objective.
Orange shaded values exceed the Part 375 Industrial Soil Cleanup Objective.

TABLE 3
SUMMARY OF METALS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-1								
Compass Direction				North	East				South		West	
Sample Name				PBL-1-5-N(12')	PBL-1-10-E(6')	PBL-1-20-E(8')	PBL-1-30-E(9')	PBL-1-30-E(9')F.D.	PBL-1-5-S(12')	PBL-1-10-S(10')	PBL-1-5-W(9')	PBL-1-10-W(10')
Sample Date				12/8/2009	12/10/2009	12/11/2009	12/15/2009	12/15/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009
Depth (ft. bgs)				12	6	8	9	9	12	10	9	10
Metals	**Residential (mg/Kg)**	**Restricted Residential (mg/Kg)**	**Industrial (mg/Kg)**									
Silver	36	180	6,800	0.42 U	0.56 U	0.26 J	0.42 U	0.44 U	0.41 U	0.52 U	0.43 U	0.45 U
Aluminum				4530	9390	6570	4470	4450	6350	9700	9930	9770
Arsenic	16	16	16	3.0	2.4	11.7	3.2	3.4	3.2	11.2	5.1	4.3
Barium	350	400	10,000	22.3	56.1	200	25.1	29.8	29	54.2	32.8	36.3
Beryllium	14	72	2,700	0.40	0.69	0.56 J	0.18 J	0.16 J	0.32 J	0.38 J	0.39 J	0.42 J
Calcium				83400	6450	18700	14500	18500	2730	17200	1590	8720
Cadmium	2.5	4.3	60	0.42 U	0.56 U	0.62	0.42 U	0.44 U	0.10 J	0.52 U	0.43 U	0.45 U
Cobalt	30[d]	--	--	4.0	7.6	11.6	3.2	3.0	6.1	8.9	7.3	6.9
Chromium[c]	22[a]/36[b]	110[a]/180[b]	800[a]/6,800[b]	7.0	22.4	12.4	7.2	7.0	12.7	15.8	14.3	14.6
Copper	270	270	10,000	31.5	15.9	345	6.9	7.1	15.9	48	13.2	14.6
Iron	2000[d]	--	--	13000	16600	14800	8060	7320	14700	23500	17300	15500
Potassium				1080	2390	1240	724	790	1260	1570	1210	1320
Magnesium				40400	4580	7960	3540	3700	3520	5620	3140	3230
Manganese	2,000	2,000	10,000	173	174	298	160	154	328	380	246	233
Mercury	0.81	0.81	5.7	0.029 J	0.018 J	0.35	0.050 J	0.062	0.067	0.044 J	0.011 J	0.027 J
Sodium				451	123	164	211	231	253	610	1180	728
Nickel	140	310	10,000	6.3	28.7	22.9	9.7	8.4	20.4	25.2	1308	15.3
Lead	400	400	3,900	26.1	12.1	878	12.8	12.9	20.4	37.3	23.5	19
Antimony				0.67 U	0.89 U	4.5	0.68 U	0.71 U	0.66 U	1.6	0.68 U	0.72 U
Selenium	36	180	6,800	0.68 J	1.2	1.8	0.62 J	0.55 J	0.81 J	1.2	1.3	1.2
Thallium				0.58 U	0.78 U	0.79 U	0.59 U	0.62 U	0.58 U	0.73 U	0.60 U	0.63 U
Vanadium	100[d]	--	--	11.0	23.2	22.1	9.2	9.3	16.8	25.1	21	21.3
Zinc	2,200	10,000	10,000	27.3	48.3	489	22.7	26.1	40.3	58.1	46.2	41

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = The Residential/Restricted Residential/Industrial Soil Cleanup Objective for hexavalent chromium is 22/110/800 mg/Kg.
[b] = The Residential/Restricted Residential/Industrial Soil Cleanup Objective for trivalent chromium is 36/180/6,800 mg/Kg.
[c] = The soil samples were analyzed for total chromium, for which there are no Part 375 SCOs. Any concentration in excess of 36/180/6,800 mg/Kg is, as aminimum, an exceedance of the hexavalent chromium Residential/Restricted Residential/Industrial SCO.
[d] = The original Part 375 SCOs did not include this metal. This metal was included in the November 2009 Supplemental SCOs, but only for the Residential SCO criteria.

Green shaded values exceed the corresponding Part 375 Residential Soil Cleanup Objective.
Yellow shaded values exceed the corresponding Part 375 Restricted Residential Soil Cleanup Objective.
Orange shaded values exceed the corresponding Part 375 Industrial Soil Cleanup Objective.

TABLE 3
SUMMARY OF METALS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-2										PBL-5				
Compass Direction				North				East						North		East	South	West
Sample Name				PBL-2-10-N(11')	PBL-2-30-N(10')	PBL-2-30-N(10')F.D.	PBL-2-60-N(11')	PBL-2-10-E(6')	PBL-2-10-E(10')	PBL-2-20-E(9')	PBL-2-30-E(9')	PBL-2-60-E(4')	PBL-2-60-E(4')F.D.	PBL-5-5-N(6')	PBL-5-10-N(5')	PBL-5-10-E(4')	PBL-5-10-S(2')	PBL-5-2-W(7')
Sample Date				12/11/2009	12/15/2009	12/15/2009	12/15/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/15/2009	12/15/2009	12/14/2009	12/14/2009	12/14/2009	12/14/2009	12/14/2009
Depth (ft. bgs)				11	10	10	11	6	10	9	9	4	4	6	5	4	2	7
Metals	**Residential (mg/Kg)**	**Restricted Residential (mg/Kg)**	**Industrial (mg/Kg)**															
Silver	36	180	6,800	0.55 U	0.32 U	0.30 U	0.34 U	0.57 U	0.56 U	0.43 U	0.42 U	0.31 J	0.12 J	0.45 U	0.52 U	0.15 J	0.26 J	2.0
Aluminum				8860	4210	5210	5700	7580	11300	6690	8530	8680	2690	12600	8860	10300	6880	3730.0
Arsenic	16	16	16	5.6	3.1	3.4	3.8	5.8	5.1	1.5	4.6	449	106	4.3	4.3	10.1	6.5	8.2
Barium	350	400	10,000	40	19.8	30.6	13.9	37.7	64.4	45	3308	230	251	74.6	49.5	66.4	71.7	83.3
Beryllium	14	72	2,700	0.42 J	0.28 J	0.33	0.24 J	0.39 J	0.49 J	0.13 J	0.26 J	1.4	0.39	0.63	0.40 J	0.53	0.35 J	0.21 J
Calcium				2540	2010	3100	2870	15900	2170	21600	8030	34200	12500	3780.0	2330.0	49100	42300	18300
Cadmium	2.5	4.3	60	0.55 U	0.098 J	0.16 J	0.34 U	0.57 U	0.56 U	0.43 U	0.42 U	1.5	0.53	0.45 U	0.52 U	0.31 J	2.4	0.99
Cobalt	30[d]	--	--	7.8	3.8	5.0	4.4	5.3	8.7	3.2	5.1	9.7	2.6	9.1	8.0	9.6	4.9	3.2
Chromium[c]	22[a]/36[b]	110[a]/180[b]	800[a]/6,800[b]	14.3	8.4	11.7	9.9	14.3	19.1	9.6	13	30	9.4	21.4	14.4	14.7	52.8	22.9
Copper	270	270	10,000	18	11.5	15.9	8.0	18.4	23.8	7.2	12.4	197	59.9	19.9	16.8	49	74.7	85.3
Iron	2000[d]	--	--	18300	9200	12900	11300	19500	20300	10700	12100	42800	13800	18900	14800	18700	21300	13600
Potassium				1350	775.0	998	1070	1270	2200	1210	1350	1430	394	2090	1140	1040	822	541
Magnesium				2880	1990.0	2780	2800	2790	3560	5910	3190	6940	2640	4700	2840	6810	4410	2550
Manganese	2,000	2,000	10,000	272	164.0	198	156	249	430	143	220	297	81.2	401	386	384	350	203
Mercury	0.81	0.81	5.7	0.066	0.050 J	0.047 J	0.062 J	0.11	0.086	0.021 J	0.062	1.7	3.3	0.1	0.035 J	0.13	0.23	0.90
Sodium				1280	1280	1610	615	591	1340	1050	495	925	297	137	87.5	258	234	193
Nickel	140	310	10,000	15.1	8.3	11.6	10.1	12.3	18.2	12.4	17.1	53.7	13.3	27.3	19.5	18.6	53.4	13.5
Lead	400	400	3,900	25.4	37.0	22.2	9.9	32.8	34.1	8.7	24	312	1670	57.0	59.3	146	2040	378
Antimony				0.89 U	0.15 J	0.49 U	0.54 U	0.92 U	0.90 U	0.69 U	0.66 U	1.7	0.27 J	0.71 U	0.83 U	0.30 J	0.62 J	0.26 J
Selenium	36	180	6,800	1.3	0.49 J	0.90	0.69	1.3	1.2	0.62 J	0.76 J	8.6	2.9	1.4	1.4	0.79 J	0.78 J	0.58 J
Thallium				0.78 U	0.45 U	0.43 U	0.47 U	0.80 U	0.79 U	0.60 U	0.58 U	2.0	0.58	0.62 U	0.72 U	0.73 U	0.64 U	0.74 U
Vanadium	100[d]	--	--	21.5	12.4	17.1	14.6	27.2	39.5	11.1	16.2	29.7	10.4	28.0	20.0	20.3	20.1	11.3
Zinc	2,200	10,000	10,000	68.4	43.6	66.6	36.4	54.6	55	23.7	31.7	612	144	62.9	49.7	167	543	231

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = The Residential Soil Cleanup Objective for hexavalent chromium is 1.0 mg/Kg.
[b] = The Residential Soil Cleanup Objective for trivalent chromium is 30 mg/Kg.
[c] = The soil samples were analyzed for total chromium, for which there is not Residential SCO. Any concentration in excess of 30 mg/Kg is, as aminimum, an exceedance of the hexavalent chromium Residential SCO.
[d] = The original Part 375 SCOs did not include this metal. This metal was included in the November 2009 Supplemental SCOs, but only for the Residential SCO criteria.
Green shaded values exceed the corresponding Part 375 Residential Soil Cleanup Objective.
Yellow shaded values exceed the corresponding Part 375 Restricted Residential Soil Cleanup Objective.
Orange shaded values exceed the corresponding Part 375 Industrial Soil Cleanup Objective.

TABLE 3
SUMMARY OF METALS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

Hot Spot Designation				PBL-7															
Compass Direction				North						East		South				West			
Sample Name				PBL-7-5-N(6')	PBL-7-5-N(8')	PBL-7-10-N(6')	PBL-7-10-N(9')	PBL-7-20-N(5')	PBL-7-20-N(10')	PBL-7-5-E(8')	PBL-7-10-E(8')	PBL-7-5-S(8')	PBL-7-10-S(6')	PBL-7-10-S(9')	PBL-7-20-S(10')	PBL-7-2-W(5')	PBL-7-2-W(9')	PBL-7-20-W(5')	PBL-7-20-W(7')
Sample Date				12/9/2009	12/9/2009	12/9/2009	12/9/2009	12/10/2009	12/10/2009	12/9/2009	12/9/2009	12/9/2009	12/9/2009	12/9/2009	12/10/2009	12/9/2009	12/95/2009	12/9/2009	12/9/2009
Depth (ft. bgs)				6	8	6	9	5	10	8	8	8	6	9	10	5	9	5	7
Metals	**Residential (mg/Kg)**	**Restricted Residential (mg/Kg)**	**Industrial (mg/Kg)**																
Silver	36	180	6,800	0.45 U	0.21 J	0.54 U	0.45 J	0.44 U	0.13 J	0.48 U	0.12 J	0.23 J	0.50 U	0.13 J	0.26 J	0.48 J	0.15 J	0.28 J	0.30 J
Aluminum				1690	2940	3900	6530	8980	12800	3480	7940	5930	4180	6980	7760	2420	13300	7010	6400
Arsenic	16	16	16	8.7	171	199	176	28.2	146	38.2	25.5	126	2.8	173	121	45.2	201	172	380
Barium	350	400	10,000	14.4	95.3	67.2	276	112	220	37.7	82.4	146	22.9	120	151	36.4	182	199	625
Beryllium	14	72	2,700	0.45 U	1.2	0.52 J	1.1	0.53	0.91	0.29 J	0.43 J	0.56	0.2 J	0.64	0.62	0.17 J	2.6	0.82	1.4
Calcium				4490	9320	1288	17300	70200	57900	5850	60000	32300	1200	40700	42700	11400	60500	28300	39500
Cadmium	2.5	4.3	60	0.12 J	1.2	0.58	2.1	0.34 J	2.3	0.16 J	0.30 J	1.4	0.50 U	1.6	1.4	0.68	2.9	1.8	3.1
Cobalt	30[d]	--	--	1.4	14.5	6.1	30.6	6.1	11.6	2.7	4.7	8.8	3.3	14.7	5.8	2.1	39.1	8.1	30.3
Chromium[c]	22[a]/36[b]	110[a]/180[b]	800[a]/6,800[b]	7.8	32.4	14.3	45.5	12.3	32	13.5	21.8	62.8	12.3	31.1	27	18.6	15.9	33.2	77.8
Copper	270	270	10,000	10.1	168	43.6	291	26	73.6	28.6	284	237	9	137	65.9	23.5	97	149	191
Iron	2000[d]	--	--	5750	82200	34900	259000	15000	32200	12700	23000	52700	8090	105000	44500	8440	37200	39300	156000
Potassium				398	380	1220	404	1550	840	457	1110	1240	769	489	1500	428	469	1100	665
Magnesium				1010	2340	1510	5250	3580	14300	1300	5710	7930	1260	4760	6620	1970	20300	6330	21600
Manganese	2,000	2,000	10,000	79.5	326	231	849	209	421	104	266	301	113	520	361	92.3	710	307	750
Mercury	0.81	0.81	5.7	0.049 J	2.4	1.5	1.2	0.42	0.81	0.52	0.92	4.1	0.012 J	2.3	0.33	0.45	0.29	3.7	2.1
Sodium				78.2	258	615	560	542	676	455	748	841	75.1	319	713	152	976	567	559
Nickel	140	310	10,000	9.4	53.4	23.3	88.8	13	69.9	17.6	25.1	85.6	8.1	39.9	31.2	9.5	151	43.7	176
Lead	400	400	3,900	28.4	560	73.8	857	143	252	71.4	55.7	367	11.8	2550	295	72.4	92.4	479	2070
Antimony				0.72 U	4.1	0.97	3.0	0.36 J	1.6	0.33 J	0.68 J	0.88	0.80 U	3.7	1.4	0.21 J	1.8	2.3	2.4
Selenium	36	180	6,800	0.56 J	6.2	2.3	3.9	1.6	5.2	1.0	2.9	3.7	1 J	2.9	5.2	1.1	8.8	3.5	10.4
Thallium				0.63 U	2.4	3.7	3.0	0.62 U	2.1	0.3 J	0.34 J	1.2	0.70 U	1.1	0.40 J	0.32 J	18	1.6	2.3
Vanadium	100[d]	--	--	5.4	20.1	14.3	51.2	22.1	29.3	9.0	21	26.2	14.4	17.5	23.2	9.7	57.4	31.7	38.5
Zinc	2,200	10,000	10,000	42.6	313	98.7	554	181	408	62.2	109	284	18.9	524	316	72.4	645	356	886

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = The Residential Soil Cleanup Objective for hexavalent chromium is 1.0 mg/Kg.
[b] = The Residential Soil Cleanup Objective for trivalent chromium is 30 mg/Kg.
[c] = The soil samples were analyzed for total chromium, for which there is not Residential SCO. Any concentration in excess of 30 mg/Kg is, as aminimum, an exceedance of the hexavalent chromium Residential SCO.
[d] = The original Part 375 SCOs did not include this metal. This metal was included in the November 2009 Supplemental SCOs, but only for the Residential SCO criteria.
Green shaded values exceed the corresponding Part 375 Residential Soil Cleanup Objective.
Yellow shaded values exceed the corresponding Part 375 Restricted Residential Soil Cleanup Objective.
Orange shaded values exceed the corresponding Part 375 Industrial Soil Cleanup Objective.

TABLE 3
SUMMARY OF METALS ANALYSIS
PRE DESIGN INVESTIGATION
500 KENT AVENUE
BROOKLYN, NEW YORK

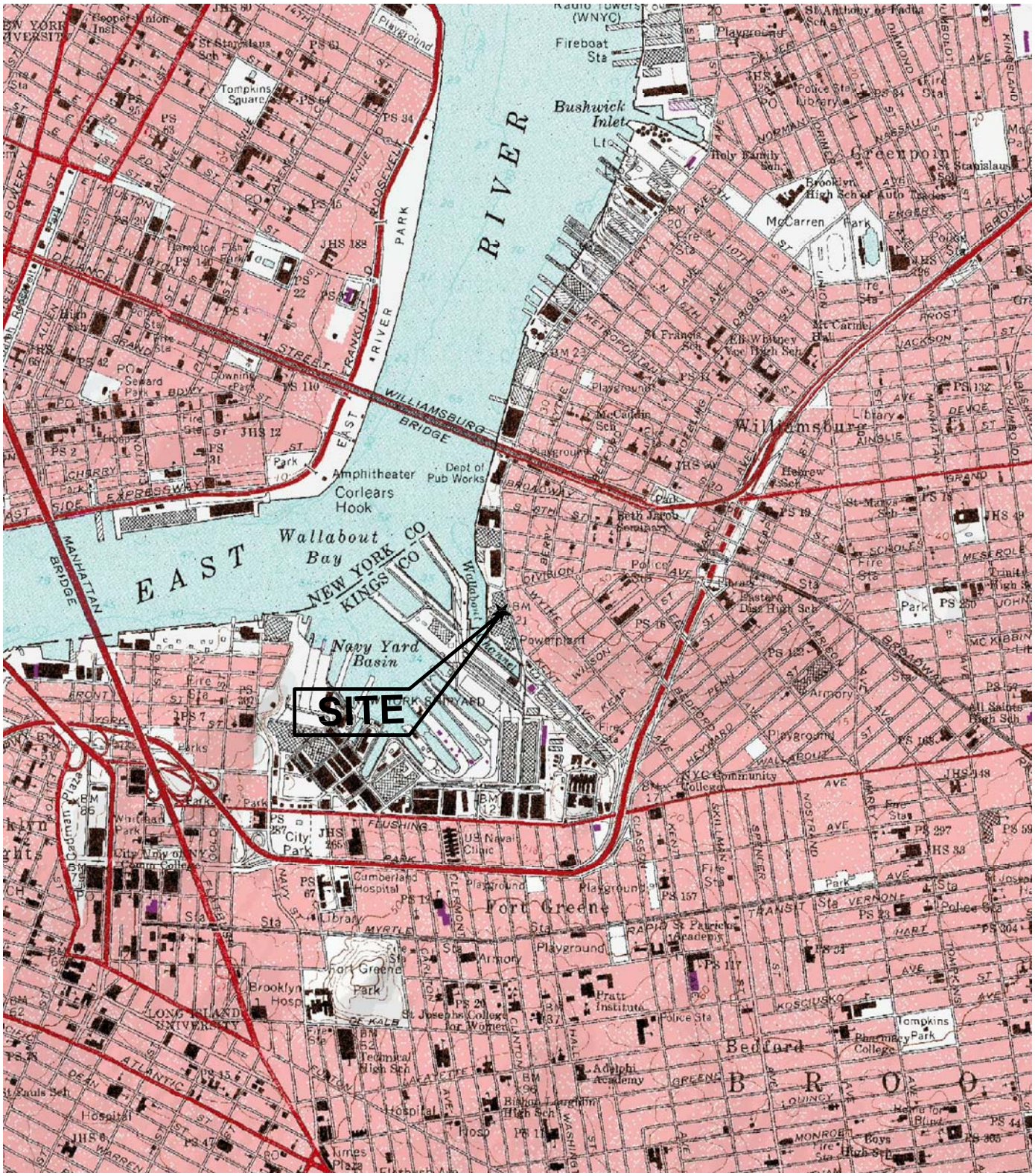
Hot Spot Designation				PBL-8																
Compass Direction				North		East					South							West		
Sample Name				PBL-8-10-N(5')	PBL-8-10-N(9.5')	PBL-8-5-E(5')	PBL-8-5-E(9.5')	PBL-8-10-E(6')	PBL-8-10-E(10')	PBL-8-20-E(10')	PBL-8-5-S(5')	PBL-8-5-S(9.5')	PBL-8-10-S(5')	PBL-8-10-S(9')	PBL-8-20-S(6')	PBL-8-20-S(11')	PBL-8-60-S(12')	PBL-8-5-W(5')	PBL-8-5-W(10')	PBL-8-10-W(8')
Sample Date				12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/11/2009	12/11/2009	12/15/2009	12/9/2009	12/9/2009	12/9/2009
Depth (ft. bgs)				5	9.5	5	9.5	6	10	10	5	9.5	5	9	6	11	12	5	10	8
Metals	**Residential (mg/Kg)**	**Restricted Residential (mg/Kg)**	**Industrial (mg/Kg)**																	
Silver	36	180	6,800	0.56 U	0.90	0.55 U	1.3	0.53 U	0.36 J	0.50 U	0.65 U	0.28 J	0.43 U	0.58 J	0.44 U	0.49 J	0.30 U	0.45 U	0.57	0.13 J
Aluminum				7430	11500	11100	8470	8040	9380	8470	7510	9360	6150	11500	9200	9740	8650	14700	11600	6340
Arsenic	16	16	16	20.3	1980	123	2490	58	831	23.4	130	799	3.2	564	229	1270	63.7	213	2100	128
Barium	350	400	10,000	102	582	76.6	463	66.7	1030	248	53.9	129	44.3	578	48.1	282	89.3	60.5	356	139
Beryllium	14	72	2,700	0.41 J	4.5	0.62	6.6	0.46 J	1.8	0.54	0.37 J	1.3	0.31 J	2.8	0.52	2.6	0.41	0.84	3.4	0.43 J
Calcium				82000	10000	24900	97900	29300	47800	69200	55000	40800	1300	31600	38300	20000	20700.0	37400	51500	55700
Cadmium	2.5	4.3	60	0.29 J	0.89	0.53 J	1.5	0.44 J	2.7	1.2	0.17 J	1.6	0.43 U	3.5	0.44 U	1.1	0.41	0.23 J	1.1	0.96
Cobalt	30[d]	--	--	4.2	17.3	5.9	12	4.4	10.5	5.6	9.7	26.4	5.6	13.9	5.0	17.1	2.7	7.3	10.6	5.5
Chromium[c]	22[a]/36[b]	110[a]/180[b]	800[a]/6,800[b]	27.3	54.5	21.7	75.2	15.9	44.9	16.9	24.3	156	17.9	37.4	26.5	48.1	11.2	26.1	52.3	17.6
Copper	270	270	10,000	38.7	206	44.2	346	48.1	74.2	46.2	20.7	39.9	14.8	105	20.8	118	64.7	24.3	119	55.9
Iron	2000[d]	--	--	14200	90900	48500	83000	49700	30200	29100	91200	39200	12100	48900	2190	55000	11200	84100	61200	29500
Potassium				1610	1540	1660	1690	1150	1290	1080	1370	549	1760	1410	979	1390	1180	2930	1460	2350
Magnesium				12900	1980	5770	4770	5520	13400	5820	2200	63200	2100	6320	422	6170	2730	2250	13900	21300
Manganese	2,000	2,000	10,000	181	327	307	357	360	323	333	1010	366	229	267	1480	383	130	680	281	229
Mercury	0.81	0.81	5.7	0.25	1.9	0.41	0.99	0.31	1.2	0.71	0.36	0.24	0.0054 J	2.8	0.22	0.45	0.49	0.35	0.57	5.6
Sodium				541	358	853	448	868	473	604	602	123	84.3	549	21.9	600	1100	1830	429	380
Nickel	140	310	10,000	36.7	61.2	19.5	56.5	15.1	77.4	16.5	35.1	358	15.9	76	36.5	86.7	11.9	27.2	51.4	25.1
Lead	400	400	3,900	74.8	204	162	395	85.6	344	467	40.7	214	8.8	429	36	706	123	53.9	471	303
Antimony				0.90 U	5.3	0.44 J	9.1	0.34 J	1.4	0.23 J	0.56 J	0.39 J	0.69 U	2.7	0.56 J	3.5	0.13 J	0.36 J	4.1	0.59 J
Selenium	36	180	6,800	1.6	65.6	8.1	122	5.7	23.9	1.3	9.2	14.1	1.3	19.4	9.1	35.8	1.7	14.9	50.4	3.4
Thallium				0.79 U	13	0.77 U	15.5	0.75 U	2.4	0.70 U	0.27 J	2.4	0.60 U	4.0	0.55 J	5.5	0.46	0.48 J	7.9	1.0
Vanadium	100[d]	--	--	16.9	93.6	25.3	92.5	15.8	49.2	20.5	15	56.2	23.1	61.6	15.3	62.4	19.6	35.9	65.8	22
Zinc	2,200	10,000	10,000	60.7	269	139	464	1114	629	381	51.3	1320	25.0	1060	35.3	396	139.0	68.0	349	227

Notes:
mg/Kg = milligrams per kilogram (parts per million).
ft bgs = feet below ground surface.
F.D. = Field duplicate.
U = Not Detected.
J = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but the greater than or equal to the Instrument Detection Limit (IDL).
Italicized compounds are Supplemental Soil Cleanup Objectives (SSCOs)
[a] = The Residential Soil Cleanup Objective for hexavalent chromium is 1.0 mg/Kg.
[b] = The Residential Soil Cleanup Objective for trivalent chromium is 30 mg/Kg.
[c] = The soil samples were analyzed for total chromium, for which there is not Residential SCO. Any concentration in excess of 30 mg/Kg is, as aminimum, an exceedance of the hexavalent chromium Residential SCO.
[d] = The original Part 375 SCOs did not include this metal. This metal was included in the November 2009 Supplemental SCOs, but only for the Residential SCO criteria.
Green shaded values exceed the corresponding Part 375 Residential Soil Cleanup Objective.
Yellow shaded values exceed the corresponding Part 375 Restricted Residential Soil Cleanup Objective.
Orange shaded values exceed the corresponding Part 375 Industrial Soil Cleanup Objective.

FIGURES

OFFICE: Holbrook, NY

DRAWING NUMBER: 126649-FIG1



APPROXIMATE SCALE

0 2000 4000 6000 FEET

REFERENCE:
7.5 MINUTE SERIES TOPOGRAPHIC MAP OF BROOKLYN, NY
USGS GEOLOGICAL SURVEY, 1966, 1927 NORTH AMERICAN DATUM

Shaw Environmental & Infrastructure
Engineering of New York, P.C.

SITE LOCATION MAP

CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. kraemer	2/23/10	CHECKED BY	C. kraemer	2/23/10
DRAWN BY	S. Tumaian	2/23/10	APPROVED BY	S. Ash	2/23/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	126649-FIG1	126649	FIGURE 1	--

OFFICE Holbrook, NY

DRAWING NUMBER KENT–FIG2

WALLABOUT CHANNEL

LEGEND

- CENTER OF SOIL BORING GROUP
- PBL–1 SOIL BORING GROUP IDENTIFICATION
- SOIL BORING LOCATION
- 5–N SOIL BORING IDENTIFICATION (E.G., PBL–1–5–N)
- AST ABOVE GROUND STORAGE TANK

PBL–1: 10–W, 5–W, 5–S, 10–S, 5–N, 10–E, 20–E, 30–E

PBL–2: 10–N, 30–N, 60–N, 10–E, 20–E, 30–E, 60–E

FORMER ELECTRICAL TRANSFORMERS AND PADS

PBL–7: 20–W, 2–W, 5–S, 10–S, 20–S, 5–N, 10–N, 20–N, 5–E, 10–E

PBL–8: 60–S, 5–S, 10–S, 20–S, 10–W, 5–W, 10–N, 5–E, 10–E, 20–E

FORMER ASTs AND SUPPORT PADS

FORMER BUILDING

ASH PIT

PBL–5: 2–W, 5–N, 10–S, 10–N, 10–E

REPORTED BURIED 1,500 GALLON FUEL OIL TANK (NOT TO SCALE)

DIVISION AVENUE

KENT AVENUE

SCALE 0 50 100 FEET

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

Shaw Environmental & Infrastructure

PRE-DESIGN INVESTIGATION BORING LOCATION PLAN
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	2/19/10	CHECKED BY	C. Kraemer	2/19/10
DRAWN BY	S. Tumaian	2/19/10	APPROVED BY	S. Ash	2/19/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG2	-	FIGURE 2	——

XREF Files: IMAGE Files: Work Area.JPG
File: T:\Con Ed\Kent Avenue\PDI\Report\Figures\KENT–FIG2.dwg
Plot Date/Time: Mar 17, 2010 – 4:39pm
Plotted By: svetlana.tumaian

OFFICE Holbrook, NY

DRAWING NUMBER KENT-FIG-3

WALLABOUT CHANNEL

N

PBL-1

PBL-2

PBL-7

PBL-8

PBL-5

PBL-1-30-E		
9		
CHRYSENE	1	12.0
BENZO(k)FLUORANTHENE	1	2.9J
INDENO(1,2,3-cd)PYRENE	0.5	3.1J
DIBENZ(a,h)ANTHRACENE	0.33	0.77J

PBL-7-10-S		
9		
BENZO(a)ANTHRACENE	1	1.4
CHRYSENE	1	1.9
BENZO(b)FLUORANTHENE	1	1.3

PBL-5-2-W		
7		
BENZO(a)ANTHRACENE	1	1.4
CHRYSENE	1	1.4
BENZO(b)FLUORANTHENE	1	1.5
BENZO(a)PYRENE	1	1.3
INDENO(1,2,3-cd)PYRENE	0.5	1.3

PBL-5-10-S		
2		
BENZO(a)ANTHRACENE	1	1.7J
CHRYSENE	1	1.6J
BENZO(b)FLUORANTHENE	1	4.0
BENZO(a)PYRENE	1	1.4J
INDENO(1,2,3-cd)PYRENE	0.5	1.3J

PBL-5-10-E		
4		
BENZO(a)ANTHRACENE	1	2.0
CHRYSENE	1	2.0
BENZO(b)FLUORANTHENE	1	2.5
BENZO(a)PYRENE	1	2.5
INDENO(1,2,3-cd)PYRENE	0.5	2.4
DIBENZ(a,h)ANTHRACENE	0.33	0.58

FORMER ELECTRICAL TRANSFORMERS AND PADS

FORMER ASTs AND SUPPORT PADS

FORMER BUILDING

ASH PIT

REPORTED BURIED 1,500 GALLON FUEL OIL TANK (NOT TO SCALE)

KENT AVENUE

DIVISION AVENUE

SCALE
0 50 100 FEET

LEGEND

+ **CENTER OF SOIL BORING GROUP**

PBL-7 SOIL BORING GROUP IDENTIFICATION

● **SOIL BORING LOCATION**

AST **ABOVE GROUND STORAGE TANK**

PBL-7-10-S		
9		
CHRYSENE	1	1.9

SOIL BORING SAMPLE DEPTH (FEET)

COMPOUND | **SOIL CLEANUP OBJECTIVE (mg/Kg)** | **ANALYTICAL RESULT (mg/Kg)**

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

Shaw Environmental & Infrastructure

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND
RESIDENTIAL SCO EXCEEDANCES
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	2/19/10	CHECKED BY	C. Kraemer	2/19/10
DRAWN BY	S. Tumaian	2/19/10	APPROVED BY	S. Ash	2/19/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG-3	-	FIGURE 3	--

XREF Files: IMAGE Files: Work Area.JPG
File: T:\Con Ed\Kent Avenue\PDI\Report\Figures\KENT-FIG3.dwg
Plot Date/Time: Mar 17, 2010 - 4:53pm
Plotted By: svetlana.tumaian

OFFICE Holbrook, NY | DRAWING NUMBER KENT-FIG-4

WALLABOUT CHANNEL

PBL-1

PBL-2

PBL-7

PBL-8

PBL-5

PBL-1-30-E		
9		
CHRYSENE	3.9	12.0
INDENO(1,2,3-cd)PYRENE	0.5	3.1J
DIBENZ(a,h)ANTHRACENE	0.33	0.77J

PBL-7-10-S		
9		
BENZO(a)ANTHRACENE	1	1.4
BENZO(b)FLUORANTHENE	1	1.3

PBL-5-2-W		
7		
BENZO(a)ANTHRACENE	1	1.4
BENZO(b)FLUORANTHENE	1	1.5
BENZO(a)PYRENE	1	1.3
INDENO(1,2,3-cd)PYRENE	0.5	1.3

PBL-5-10-S		
2		
BENZO(a)ANTHRACENE	1	1.7J
BENZO(b)FLUORANTHENE	1	4.0
BENZO(a)PYRENE	1	1.4J
INDENO(1,2,3-cd)PYRENE	0.5	1.3J

PBL-5-10-E		
4		
BENZO(a)ANTHRACENE	1	2.0
BENZO(b)FLUORANTHENE	1	2.5
BENZO(a)PYRENE	1	2.5
INDENO(1,2,3-cd)PYRENE	0.5	2.4
DIBENZ(a,h)ANTHRACENE	0.33	0.58

FORMER ELECTRICAL TRANSFORMERS AND PADS

FORMER BUILDING

FORMER ASTs AND SUPPORT PADS

ASH PIT

REPORTED BURIED 1,500 GALLON FUEL OIL TANK (NOT TO SCALE)

DIVISION AVENUE

KENT AVENUE

N

SCALE
0 50 100 FEET

LEGEND

+ **CENTER OF SOIL BORING GROUP**

PBL-7 SOIL BORING GROUP IDENTIFICATION

● **SOIL BORING LOCATION**

AST **ABOVE GROUND STORAGE TANK**

PBL-1-30-E		
9		
CHRYSENE	3.9	12.0

SOIL BORING SAMPLE DEPTH (FEET)

COMPOUND | **SOIL CLEANUP OBJECTIVE (mg/Kg)** | **ANALYTICAL RESULT (mg/Kg)**

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

Shaw™ **Shaw Environmental & Infrastructure**

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND
RESTRICTED RESIDENTIAL SCO EXCEEDANCES
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	2/19/10	CHECKED BY	C. Kraemer	2/19/10
DRAWN BY	S. Tumaian	2/19/10	APPROVED BY	S. Ash	2/19/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG-4	-	FIGURE 4	--

XREF Files: IMAGE Files: Work Area.JPG
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Plot Date/Time: Mar 18, 2010 - 8:59am
Plotted By: svetlana.tumaian

OFFICE Holbrook, NY | DRAWING NUMBER KENT-FIG-5

WALLABOUT CHANNEL

PBL-1

PBL-2

PBL-7

PBL-8

PBL-5

FORMER ELECTRICAL TRANSFORMERS AND PADS

FORMER ASTs AND SUPPORT PADS

FORMER BUILDING

ASH PIT

REPORTED BURIED 1,500 GALLON FUEL OIL TANK (NOT TO SCALE)

PBL-5-2-W		
7		
BENZO(a)PYRENE	1.1	1.3

PBL-5-10-S		
2		
BENZO(a)PYRENE	1.1	1.4J

PBL-5-10-E		
4		
BENZO(a)PYRENE	1.1	2.5

KENT AVENUE

DIVISION AVENUE

N

SCALE
0 50 100 FEET

LEGEND

+ CENTER OF SOIL BORING GROUP
PBL-7 SOIL BORING GROUP IDENTIFICATION
● SOIL BORING LOCATION
AST ABOVE GROUND STORAGE TANK

PBL-5-10-E		
4		
BENZO(a)PYRENE	1.1	2.5

SOIL BORING SAMPLE DEPTH (FEET)

COMPOUND | SOIL CLEANUP OBJECTIVE (mg/Kg) | ANALYTICAL RESULT (mg/Kg)

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

Shaw Environmental & Infrastructure

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND
INDUSTRIAL SCO EXCEEDANCES
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	2/19/10	CHECKED BY	C. Kraemer	2/19/10
DRAWN BY	S. Tumaian	2/19/10	APPROVED BY	S. Ash	2/19/10
SCALE: AS SHOWN	DRAWING NO. KENT-FIG-5	PROJECT NO. -	SHEET NO. FIGURE 5		REVISION NO. --

XREF Files: IMAGE Files: Work Area.JPG
File: T:\Con Ed\Kent Avenue\PD\Report\Figures\KENT-FIG5.dwg
Plot Date/Time: Mar 18, 2010 - 9:10am
Plotted By: svetlana.tumaian

OFFICE Holbrook, NY | DRAWING NUMBER KENT-FIG-6

PBL-1-5-W		
9		
NICKEL	140	1308

PBL-1-20-E		
8		
COPPER	270	345
LEAD	400	878

PBL-2-30-E		
9		
BARIUM	350	3308

PBL-2-60-E		
4		
ARSENIC	16	449
MERCURY	0.81	1.7

PBL-7-5-S		
8		
ARSENIC	16	126
MERCURY	0.81	4.1
CHROMIUM	36	62.8

PBL-7-10-S		
9		
ARSENIC	16	173
MERCURY	0.81	2.3
LEAD	400	2550

PBL-7-20-S		
10		
ARSENIC	16	121

PBL-7-5-E		
8		
ARSENIC	16	38.2

PBL-7-10-E		
8		
ARSENIC	16	25.5
COPPER	270	284
MERCURY	0.81	0.92

PBL-8-10-W		
8		
ARSENIC	16	128
MERCURY	0.81	5.6

PBL-8-5-W		
10		
ARSENIC	16	2100
BARIUM	350	356
CHROMIUM	36	52.3
LEAD	400	471
SELENIUM	36	50.4

PBL-8-5-W		
5		
ARSENIC	16	213

PBL-8-5-S		
5		
ARSENIC	16	130

PBL-8-5-S		
9.5		
ARSENIC	16	799
CHROMIUM	36	156
NICKEL	140	358

PBL-8-10-S		
9		
ARSENIC	16	564
BARIUM	350	578
CADMIUM	2.5	3.5
CHROMIUM	36	37.4
MERCURY	0.81	2.8
LEAD	400	429

PBL-8-20-S		
6		
ARSENIC	16	229

PBL-8-20-S		
11		
ARSENIC	16	1270
CHROMIUM	36	48.1
LEAD	400	706

PBL-8-60-S		
12		
ARSENIC	16	63.7

PBL-8-10-E		
6		
ARSENIC	16	58

PBL-8-10-E		
10		
ARSENIC	16	831
BARIUM	350	1030
CADMIUM	2.5	2.7
CHROMIUM	36	44.9
MERCURY	0.81	1.2

PBL-8-20-E		
10		
ARSENIC	16	23.4
LEAD	400	467

PBL-8-5-E		
5		
ARSENIC	16	123

PBL-8-5-E		
9.5		
ARSENIC	16	2490
BARIUM	350	463
CHROMIUM	36	75.2
COPPER	270	346
SELENIUM	36	122
MERCURY	0.81	0.99

PBL-7-20-W		
7		
ARSENIC	16	380
CADMIUM	2,5	3.1
MERCURY	0.81	2.1
NICKEL	140	176
LEAD	400	2070

PBL-7-20-W		
5		
ARSENIC	16	172
MERCURY	0.81	3.7
LEAD	400	479

PBL-7-2-W		
9		
ARSENIC	16	201
CADMIUM	2.5	2.9
NICKEL	140	151

PBL-7-2-W		
5		
ARSENIC	16	45.2

PBL-7-20-N		
10		
ARSENIC	16	146

PBL-7-20-N		
5		
ARSENIC	16	28.2

PBL-7-10-N		
9		
ARSENIC	16	176
CHROMIUM	36	45.5
COPPER	270	291
MERCURY	0.81	1.2
LEAD	400	857

PBL-7-10-N		
6		
ARSENIC	16	199
MERCURY	0.81	1.5

PBL-7-5-N		
8		
ARSENIC	16	171
MERCURY	0.81	2.4
LEAD	400	560

PBL-8-10-N		
5		
ARSENIC	16	20.3

PBL-8-10-N		
9.5		
ARSENIC	16	1980
CHROMIUM	36	54,5
MERCURY	0.81	1.9
SELENIUM	36	65.6

PBL-5-10-S		
2		
CHROMIUM	36	52.8
LEAD	400	2040

PBL-5-2-W		
7		
MERCURY	0.81	0.90

PBL-1
PBL-2
PBL-7
PBL-8
PBL-5

WALLABOUT CHANNEL

FORMER ELECTRICAL TRANSFORMERS AND PADS

FORMER ASTs AND SUPPORT PADS

FORMER ASTs AND SUPPORT PADS

FORMER BUILDING

ASH PIT

REPORTED BURIED 1,500 GALLON FUEL OIL TANK (NOT TO SCALE)

KENT AVENUE

DIVISION AVENUE

N

LEGEND

+ CENTER OF SOIL BORING GROUP
PBL-8 SOIL BORING GROUP IDENTIFICATION
● SOIL BORING LOCATION
AST ABOVE GROUND STORAGE TANK

PBL-2-30-E
9
BARIUM 350 3308

SOIL BORING SAMPLE DEPTH (FEET)

METAL | SOIL CLEANUP OBJECTIVE (mg/Kg) | ANALYTICAL RESULT (mg/Kg)

SCALE
0 50 100 FEET

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

Shaw Environmental & Infrastructure

SUMMARY OF METAL RESIDENTIAL SCO EXCEEDANCES
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	2/19/10	CHECKED BY	C. Kraemer	2/19/10
DRAWN BY	S. Tumaian	2/19/10	APPROVED BY	S. Ash	2/19/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG-6	-	FIGURE 6	--

XREF Files: IMAGE Files: Work Area.JPG
File: T:\Con Ed\Kent Avenue\PDI\Report\Figures\KENT-FIG6.dwg
Plot Date/Time: Mar 18, 2010 - 9:17am
Plotted By: svetlana.tumaian

OFFICE: Holbrook, NY
DRAWING NUMBER: KENT-FIG-7

PBL-1-5-W		
9		
NICKEL	140	1308

PBL-1-20-E		
8		
LEAD	400	878
COPPER	270	345

PBL-7-5-S		
8		
ARSENIC	16	126
MERCURY	0.81	4.1

PBL-7-10-S		
9		
ARSENIC	16	173
MERCURY	0.81	2.3
LEAD	400	2550

PBL-7-20-S		
10		
ARSENIC	16	121

PBL-7-5-E		
8		
ARSENIC	16	38.2

PBL-7-10-E		
8		
ARSENIC	16	25.5
COPPER	270	284
MERCURY	0.81	0.92

PBL-8-10-W		
8		
ARSENIC	16	128
MERCURY	0.81	5.6

PBL-8-5-W		
10		
ARSENIC	16	2100
LEAD	400	471

PBL-8-5-W		
5		
ARSENIC	16	213

PBL-8-5-S		
5		
ARSENIC	16	130

PBL-8-5-S		
9.5		
ARSENIC	16	799
NICKEL	140	358

PBL-8-10-S		
9		
ARSENIC	16	564
BARIUM	400	578
MERCURY	0.81	2.8
LEAD	400	429

PBL-8-20-S		
6		
ARSENIC	16	229

PBL-8-20-S		
11		
ARSENIC	16	1270
LEAD	400	706

PBL-8-60-S		
12		
ARSENIC	16	63.7

PBL-2-30-E		
9		
BARIUM	400	3308

PBL-2-60-E		
4		
ARSENIC	16	449
MERCURY	0.81	1.7

PBL-2

PBL-1

WALLABOUT CHANNEL

FORMER ELECTRICAL TRANSFORMERS AND PADS

PBL-7-20-W		
7		
ARSENIC	16	380
MERCURY	0.81	2.1
LEAD	400	2070

PBL-7-20-W		
5		
ARSENIC	16	172
MERCURY	0.81	3.7
LEAD	400	479

PBL-7-2-W		
9		
ARSENIC	16	201

PBL-7-2-W		
5		
ARSENIC	16	45.2

PBL-7-20-N		
10		
ARSENIC	16	146

PBL-7-20-N		
5		
ARSENIC	16	28.2

PBL-7-10-N		
9		
ARSENIC	16	176
COPPER	270	291
MERCURY	0.81	1.2
LEAD	400	857

PBL-7-10-N		
6		
ARSENIC	16	199
MERCURY	0.81	1.5

PBL-7-5-N		
8		
ARSENIC	16	171
MERCURY	0.81	2.4
LEAD	400	560

PBL-7

PBL-8

FORMER ASTs AND SUPPORT PADS

FORMER ASTs AND SUPPORT PADS

FORMER BUILDING

PBL-8-10-E		
6		
ARSENIC	16	58

PBL-8-10-E		
10		
ARSENIC	16	831
BARIUM	400	1030
MERCURY	0.81	1.2

PBL-8-20-E		
10		
ARSENIC	16	23.4
LEAD	400	467

PBL-8-5-E		
5		
ARSENIC	16	123

PBL-8-5-E		
9.5		
ARSENIC	16	2490
BARIUM	400	463
COPPER	270	346
MERCURY	0.81	0.99

PBL-8-10-N		
5		
ARSENIC	16	20.3

PBL-8-10-N		
9.5		
ARSENIC	16	1980
MERCURY	0.81	1.9

KENT AVENUE

PBL-5-10-S		
2		
LEAD	400	2040

PBL-5-2-W		
7		
MERCURY	0.81	0.90

ASH PIT

PBL-5

REPORTED BURIED 1,500 GALLON FUEL OIL TANK (NOT TO SCALE)

DIVISION AVENUE

N

LEGEND

- CENTER OF SOIL BORING GROUP
- PBL-8 SOIL BORING GROUP IDENTIFICATION
- SOIL BORING LOCATION
- AST ABOVE GROUND STORAGE TANK
- PBL-2-30-E / 9 / BARIUM 400 3308 — SOIL BORING SAMPLE DEPTH (FEET)
- METAL — SOIL CLEANUP OBJECTIVE (mg/Kg)
- ANALYTICAL RESULT (mg/Kg)

SCALE
0 50 100 FEET

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

Shaw Environmental & Infrastructure

SUMMARY OF METAL RESTRICTED RESIDENTIAL SCO EXCEEDANCES
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	5/5/10	CHECKED BY	C. Kraemer	5/5/10
DRAWN BY	P. Helseth	5/5/10	APPROVED BY	S. Ash	5/5/10
SCALE: AS SHOWN	DRAWING NO. KENT-FIG-7	PROJECT NO. -	SHEET NO. FIGURE 7		REVISION NO. — —

XREF Files: IMAGE Files: Work Area.JPG
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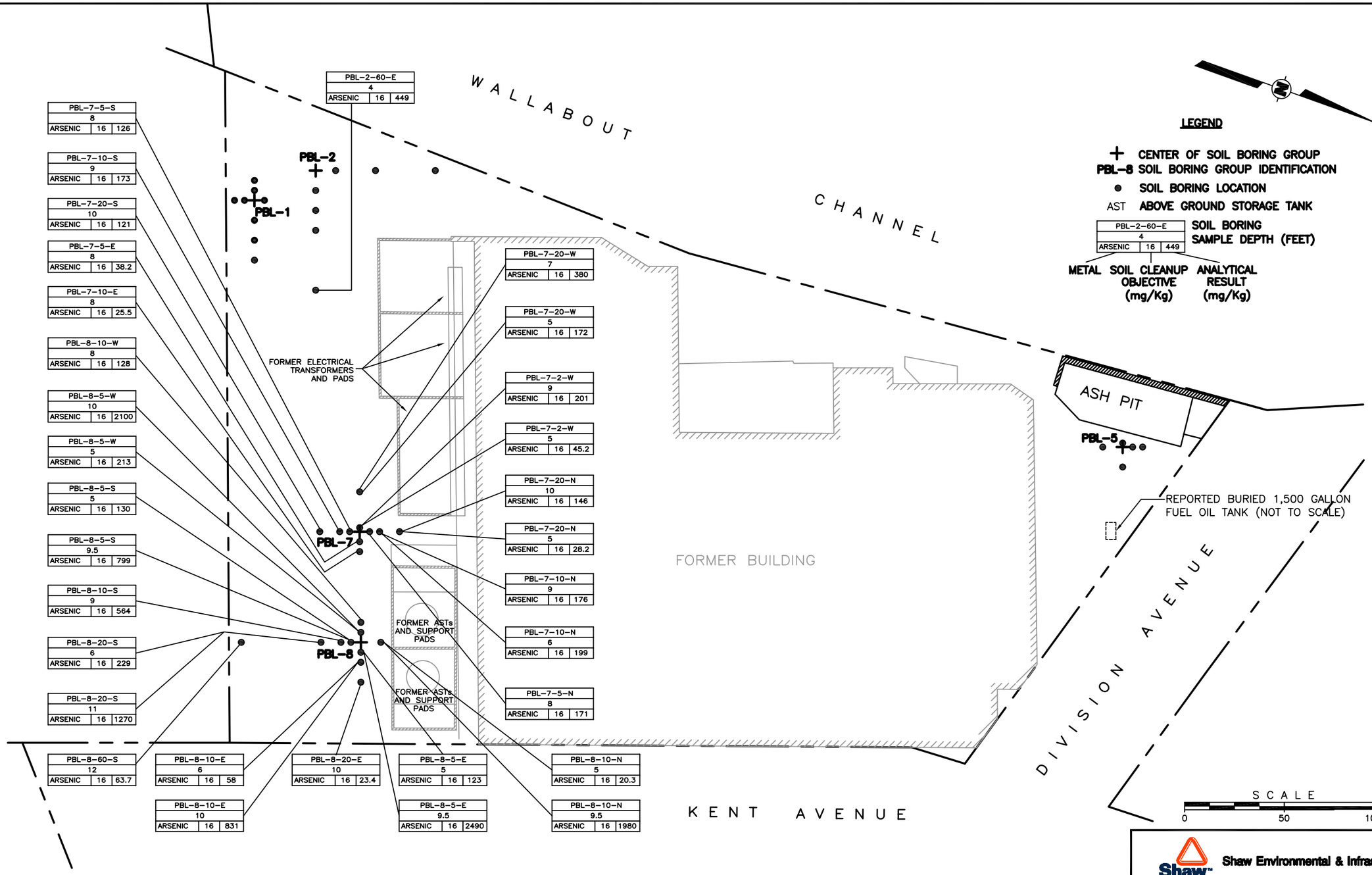
Plot Date/Time: May 05, 2010 - 11:24am
Plotted By: peter.helseth

OFFICE Holbrook, NY | DRAWING NUMBER KENT-FIG-8



SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

Shaw Environmental & Infrastructure

SUMMARY OF METAL INDUSTRIAL SCO EXCEEDANCES
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	2/19/10	CHECKED BY	C. Kraemer	2/19/10
DRAWN BY	S. Tumaian	2/19/10	APPROVED BY	S. Ash	2/19/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG-8	-	FIGURE 8	--

XREF Files: IMAGE Files: Work Area.JPG
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Plot Date/Time: Mar 18, 2010 - 9:26am
Plotted By: svetlana.tumaian

OFFICE Holbrook, NY | DRAWING NUMBER KENT–FIG9

S–07		
8–12		
13 SVOC EXCEEDANCES		

PBL–1		
5–5.5		
BENZO(a)ANTHRACENE	1	27.0
CHRYSENE	1	24.0
BENZO(b)FLUORANTHENE	1	23.0
BENZO(k)FLUORANTHENE	1	7.7
BENZO(a)PYRENE	1	24.0
INDENO(1,2,3–cd)ANTHRACENE	0.5	1.16
DIBENZ(a,h)ANTHRACENE	0.33	0.82

PBL–1–30–E		
9		
CHRYSENE	1	12.0
BENZO(k)FLUORANTHENE	1	2.9J
INDENO(1,2,3–cd)PYRENE	0.5	3.1J
DIBENZ(a,h)ANTHRACENE	0.33	0.77J

S–08		
4–8		
BENZO(a)ANTHRACENE	1	6.78
CHRYSENE	1	6.07
BENZO(b)FLUORANTHENE	1	2.3
BENZO(k)FLUORANTHENE	1	3.27
BENZO(a)PYRENE	1	4.61
INDENO(1,2,3–cd)PYRENE	0.5	1.16

PBL–7–10–S		
9		
BENZO(a)ANTHRACENE	1	1.4
CHRYSENE	1	1.9
BENZO(b)FLUORANTHENE	1	1.3

S–06		
4–8		
BENZO(a)ANTHRACENE	1	7.84
CHRYSENE	1	7.24
BENZO(b)FLUORANTHENE	1	5.2
BENZO(k)FLUORANTHENE	1	6.5
BENZO(a)PYRENE	1	6.06
INDENO(1,2,3–cd)PYRENE	0.5	2.32

PBL–5–2–W		
7		
BENZO(a)ANTHRACENE	1	1.4
CHRYSENE	1	1.4
BENZO(b)FLUORANTHENE	1	1.5
BENZO(a)PYRENE	1	1.3
INDENO(1,2,3–cd)PYRENE	0.5	1.3

PBL–5		
8–8.5		
BENZO(a)ANTHRACENE	1	2.2
CHRYSENE	1	2.1
BENZO(b)FLUORANTHENE	1	3.0
BENZO(k)FLUORANTHENE	1	1.3
BENZO (a) PYRENE	1	2.3

S–01		
4–8		
BENZO(a)ANTHRACENE	1	1.12
CHRYSENE	1	1.16
INDENO(1,2,3–cd)PYRENE	0.5	0.54

PBL–5–10–S		
2		
BENZO(a)ANTHRACENE	1	1.7J
CHRYSENE	1	1.6J
BENZO(b)FLUORANTHENE	1	4.0
BENZO(a)PYRENE	1	1.4J
INDENO(1,2,3–cd)PYRENE	0.5	1.3J

PBL–5–10–E		
4		
BENZO(a)ANTHRACENE	1	2.0
CHRYSENE	1	2.0
BENZO(b)FLUORANTHENE	1	2.5
BENZO(a)PYRENE	1	2.5
INDENO(1,2,3–cd)PYRENE	0.5	2.4
DIBENZ(a,h)ANTHRACENE	0.33	0.58

S–12		
8–12		
BENZO(a)ANTHRACENE	1	2.86
CHRYSENE	1	3.36
BENZO(b)FLUORANTHENE	1	2.63
BENZO(k)FLUORANTHENE	1	2.4
BENZO(a)PYRENE	1	2.63
INDENO(1,2,3–cd)PYRENE	0.5	0.80

PMW–1, PMW–2, PMW–3, PMW–4, PMW–5
PBL–1, PBL–2, PBL–3, PBL–4, PBL–5, PBL–6, PBL–7, PBL–8, PBL–9, PBL–10, PBL–11
S–01, S–02, S–03, S–04, S–06, S–07, S–08, S–09, S–11, S–12, S–13
S–1, S–2, S–3, S–4, S–5, S–6, S–7, S–8, S–9

WALLABOUT CHANNEL
FORMER ELECTRICAL TRANSFORMERS AND PADS
FORMER ASTs AND SUPPORT PADS
FORMER BUILDING
ASH PIT
REPORTED BURIED 1,500 GALLON FUEL OIL TANK (NOT TO SCALE)
KENT AVENUE
DIVISION AVENUE

LEGEND

- S–01 — 2000 SOIL BORING LOCATION
- PBL–4 — 2006 SOIL BORING LOCATION
- 2009 SOIL BORING LOCATION
- S–1 — 2006 SHALLOW SOIL BORING LOCATION

PBL–7–10–S		
9		
CHRYSENE	1	1.9

SOIL BORING SAMPLE DEPTH (FEET)
COMPOUND | SOIL CLEANUP OBJECTIVE (mg/Kg) | ANALYTICAL RESULT (mg/Kg)

AREA OF INSUFFICIENT DATA
AST — ABOVE GROUND STORAGE TANK

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

SCALE 0 50 100 FEET

Shaw Environmental & Infrastructure

AREAS OF INSUFFICIENT SVOC DATA
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	4/30/10	CHECKED BY	C. Kraemer	4/30/10
DRAWN BY	P. Helseth	4/30/10	APPROVED BY	S. Ash	4/30/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG9	-	FIGURE 9	— —

XREF Files: IMAGE Files: Work Area.JPG
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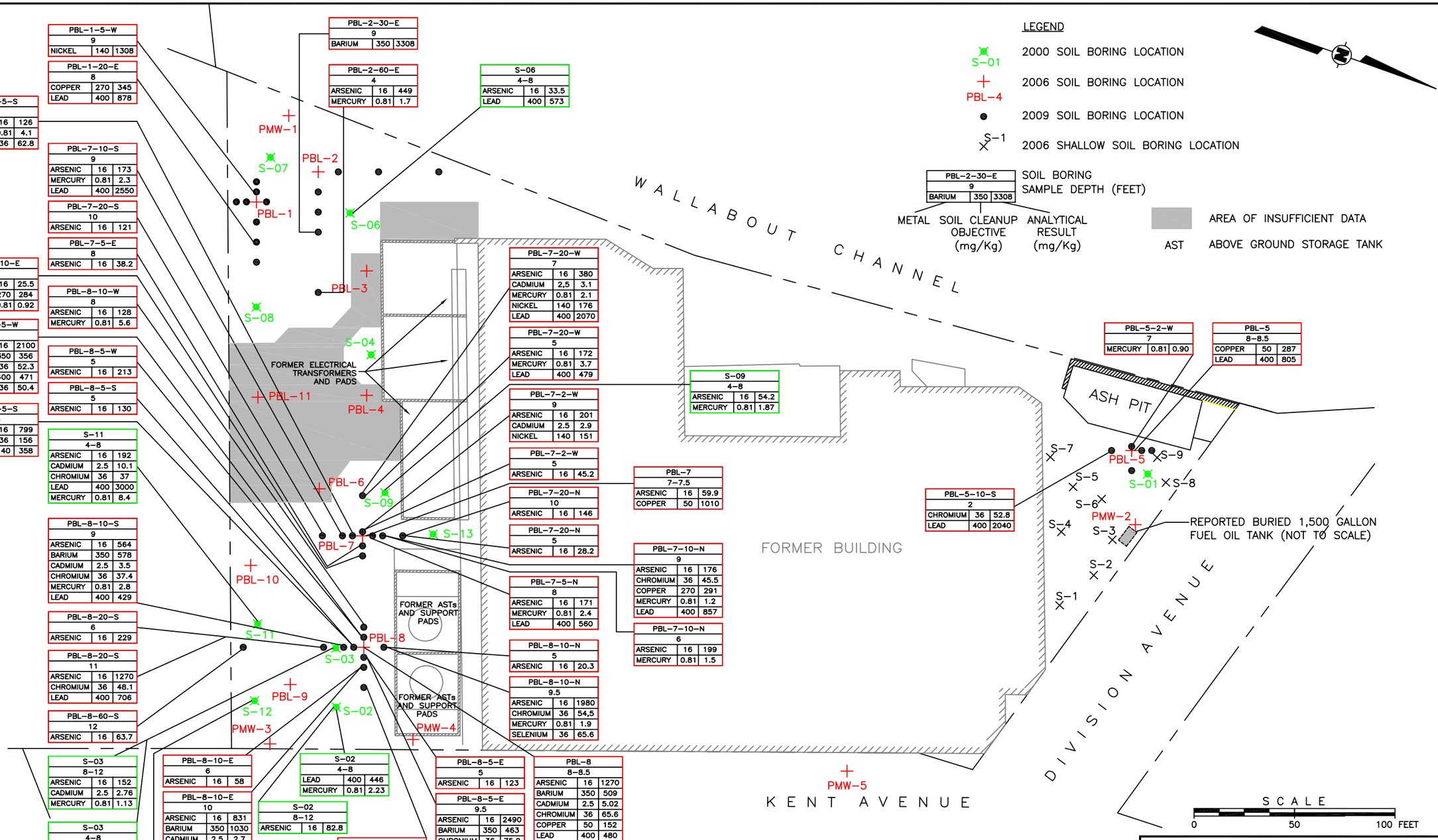
Plot Date/Time: May 05, 2010 - 8:53am
Plotted By: peter.helseth

OFFICE Holbrook, NY | DRAWING NUMBER KENT-FIG10



SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE", LAWLER, MATUSKY, AND SKELLY ENGINEERS, LLP, DATE: FEBRUARY 2000

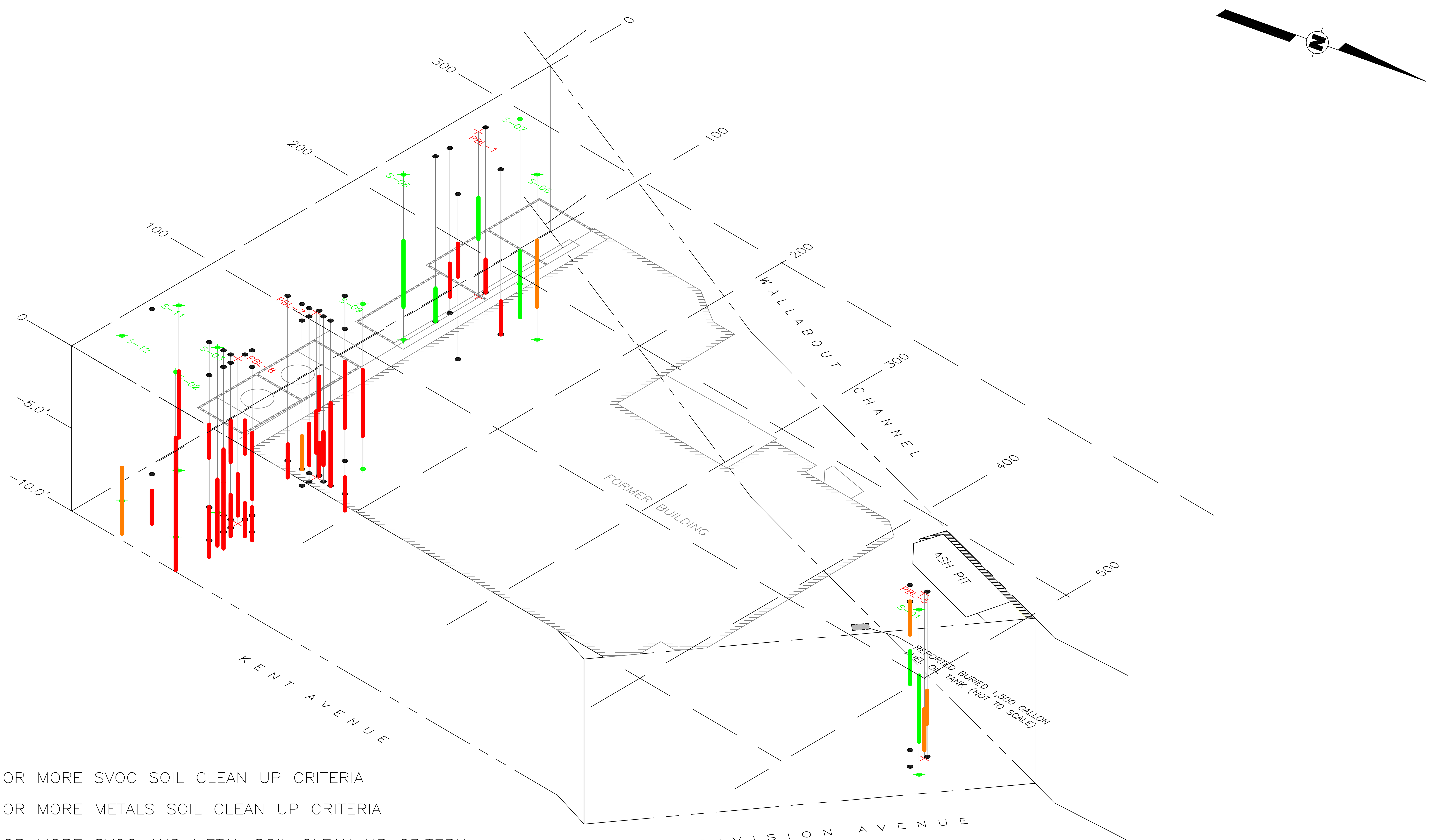
Shaw Environmental & Infrastructure

AREAS OF INSUFFICIENT METALS DATA
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	4/30/10	CHECKED BY	C. Kraemer	4/30/10
DRAWN BY	P. Helseth	4/30/10	APPROVED BY	S. Ash	4/30/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG10	-	FIGURE 10	--

OFFICE	DRAWING NUMBER
Holbrook, NY	KENT-FIG11



LEGEND

- (green) EXCEEDS ONE OR MORE SVOC SOIL CLEAN UP CRITERIA
- (red) EXCEEDS ONE OR MORE METALS SOIL CLEAN UP CRITERIA
- (orange) EXCEEDS ONE OR MORE SVOC AND METAL SOIL CLEAN UP CRITERIA

NOTES:

VERTICAL EXAGGERATION = 10 TIMES

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE",

XREF Files: IMAGE Files: Work Area.JPG
File: D:\Documents and Settings\peter.helseth\Desktop\My Holbrook Folder\Con Ed - Kent Ave\KENT-3D-FIG11.dwg
Plot Date/Time: Jun 04, 2010 - 3:26pm
Plotted By: peter.helseth

Shaw Environmental & Infrastructure

PERSPECTIVE VIEW
CUMULATIVE COMPARISON TO RESIDENTIAL CLEAN-UP LEVELS
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	*C. Kraemer*	*6/3/10*	CHECKED BY	*C. Kraemer*	*6/3/10*
DRAWN BY	*P. Helseth*	*6/3/10*	APPROVED BY	*S. Ash*	*6/3/10*

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG11	126649	FIGURE 11	— —

OFFICE: *Holbrook, NY*

DRAWING NUMBER: KENT–FIG11A

LEGEND

- EXCEEDS ONE OR MORE SVOC SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE METALS SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE SVOC AND METAL SOIL CLEAN UP CRITERIA

NOTES:

VERTICAL EXAGGERATION = 10 TIMES

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE",

Shaw Environmental & Infrastructure

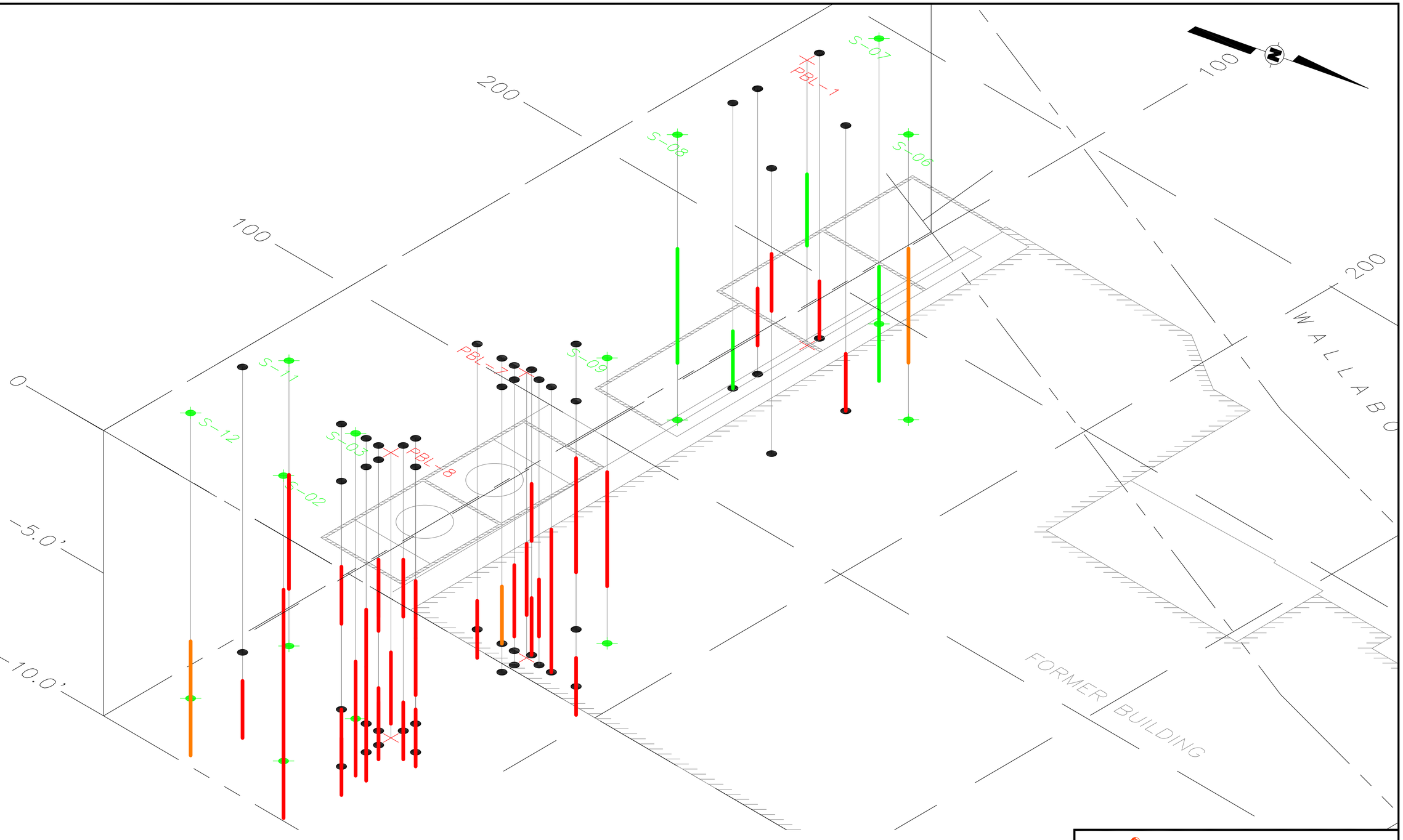
PERSPECTIVE VIEW - NORTH
CUMULATIVE COMPARISON TO RESIDENTIAL CLEAN-UP LEVELS
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	6/3/10	CHECKED BY	C. Kraemer	6/3/10
DRAWN BY	P. Helseth	6/3/10	APPROVED BY	S. Ash	6/3/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG11A	126649	FIGURE 11A	— —

OFFICE *Holbrook, NY*

DRAWING NUMBER KENT–FIG11B



LEGEND

- EXCEEDS ONE OR MORE SVOC SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE METALS SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE SVOC AND METAL SOIL CLEAN UP CRITERIA

NOTES:

VERTICAL EXAGGERATION = 10 TIMES

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE",

Shaw Environmental & Infrastructure

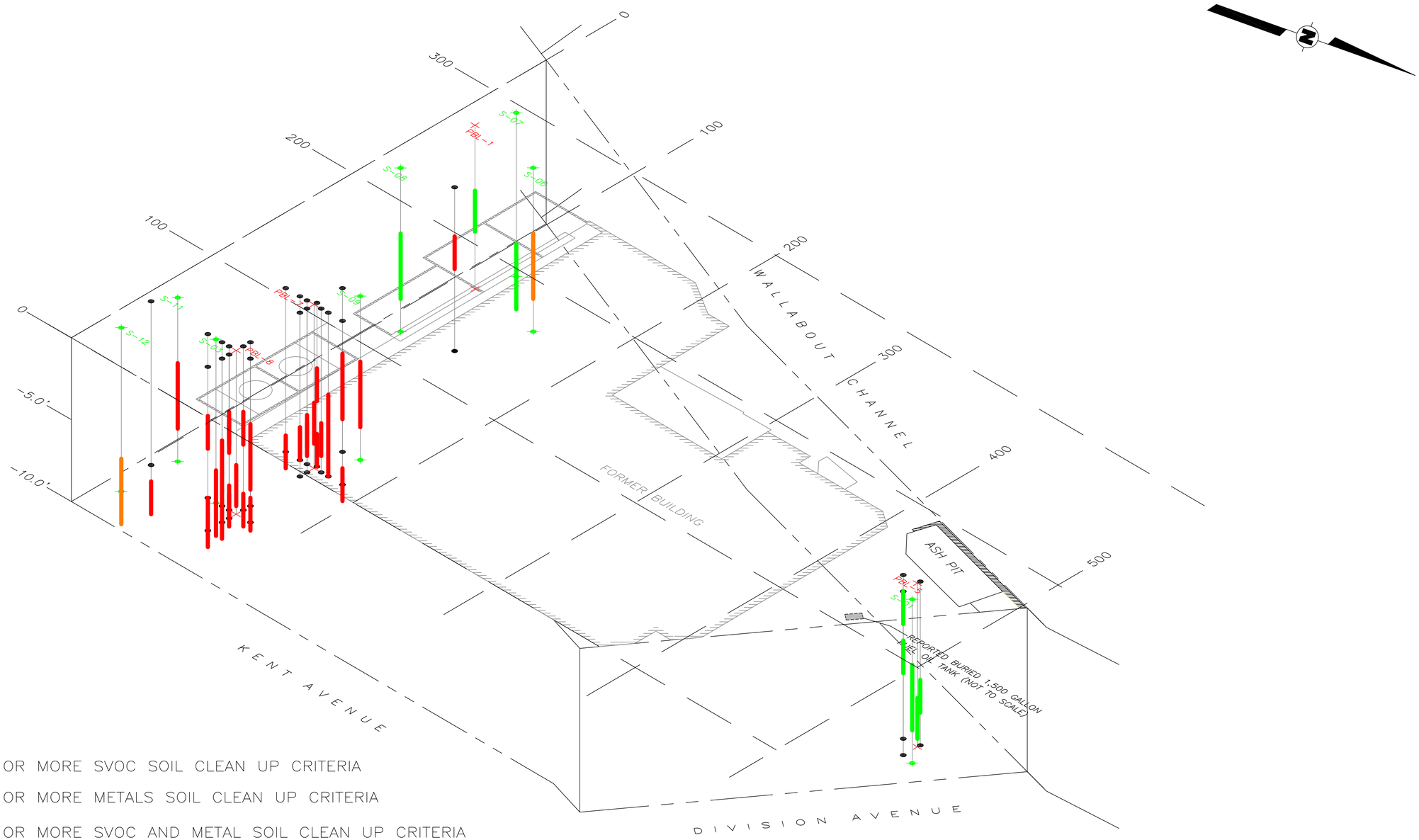
PERSPECTIVE VIEW - SOUTH
CUMULATIVE COMPARISON TO RESIDENTIAL CLEAN-UP LEVELS
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	6/3/10	CHECKED BY	C. Kraemer	6/3/10
DRAWN BY	P. Helseth	6/3/10	APPROVED BY	S. Ash	6/3/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG11B	126649	FIGURE 11B	— —

OFFICE
Holbrook, NY

DRAWING NUMBER
KENT–FIG12



LEGEND

- EXCEEDS ONE OR MORE SVOC SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE METALS SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE SVOC AND METAL SOIL CLEAN UP CRITERIA

NOTES:

VERTICAL EXAGGERATION = 10 TIMES

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE",

Shaw Environmental & Infrastructure

PERSPECTIVE VIEW
CUMULATIVE COMPARISON TO INDUSTRIAL CLEAN-UP LEVELS
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	6/3/10	CHECKED BY	C. Kraemer	6/3/10
DRAWN BY	P. Helseth	6/3/10	APPROVED BY	S. Ash	6/3/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG12	126649	FIGURE 12	— —

OFFICE: Holbrook, NY

DRAWING NUMBER: KENT–FIG12A

LEGEND

- EXCEEDS ONE OR MORE SVOC SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE METALS SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE SVOC AND METAL SOIL CLEAN UP CRITERIA

NOTES:

VERTICAL EXAGGERATION = 10 TIMES

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE",

Shaw Environmental & Infrastructure

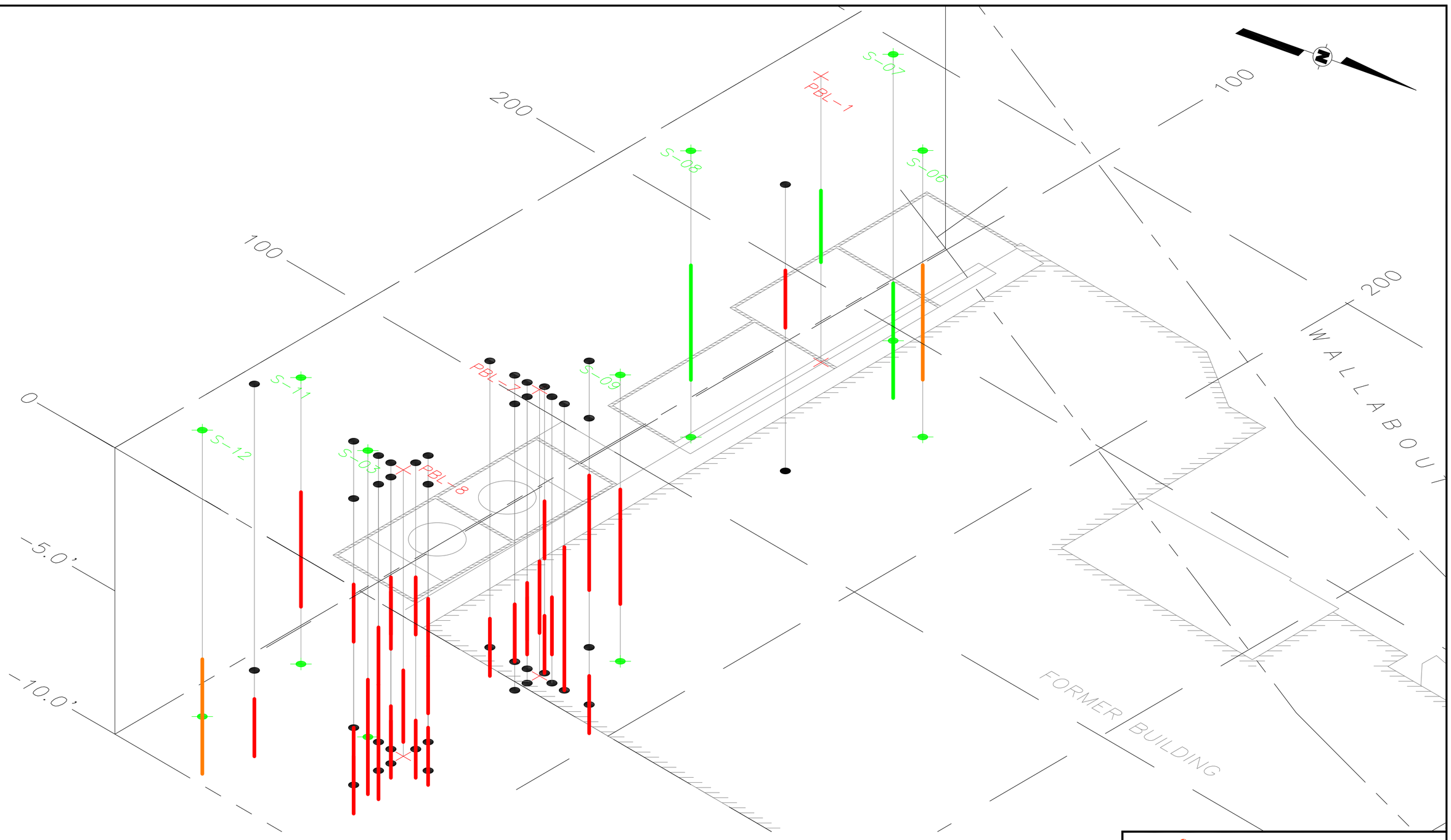
PERSPECTIVE VIEW - NORTH
CUMULATIVE COMPARISON TO INDUSTRIAL CLEAN-UP LEVELS
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	6/3/10	CHECKED BY	C. Kraemer	6/3/10
DRAWN BY	P. Helseth	6/3/10	APPROVED BY	S. Ash	6/3/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG12A	126649	FIGURE 12A	— —

OFFICE
Holbrook, NY

DRAWING NUMBER
KENT–FIG12B



LEGEND

- EXCEEDS ONE OR MORE SVOC SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE METALS SOIL CLEAN UP CRITERIA
- EXCEEDS ONE OR MORE SVOC AND METAL SOIL CLEAN UP CRITERIA

NOTES:

VERTICAL EXAGGERATION = 10 TIMES

SOURCE: "PHASE II INVESTIGATION REPORT:KENT AVENUE SITE",

Shaw Environmental & Infrastructure

PERSPECTIVE VIEW - SOUTH
CUMULATIVE COMPARISON TO INDUSTRIAL CLEAN-UP LEVELS
CON EDISON
FORMER GENERATING STATION
500 KENT AVENUE, BROOKLYN, NEW YORK

DESIGNED BY	C. Kraemer	6/3/10	CHECKED BY	C. Kraemer	6/3/10
DRAWN BY	P. Helseth	6/3/10	APPROVED BY	S. Ash	6/3/10

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN	KENT-FIG12B	126649	FIGURE 12B	— —

ATTACHMENT 1

FIGURES FROM GEOPHYSICAL CONTRACTOR

LEGEND

- e — electric line
- ? — suspected utility
- chain-link fence
- electrical conduit bank
- electrical conduit
- proposed deliniation area
- monitoring well
- utility pole
- manhole cover
- metal-detector anomaly

approximately

0 15 30

Scale: One inch equals approximately thirty feet

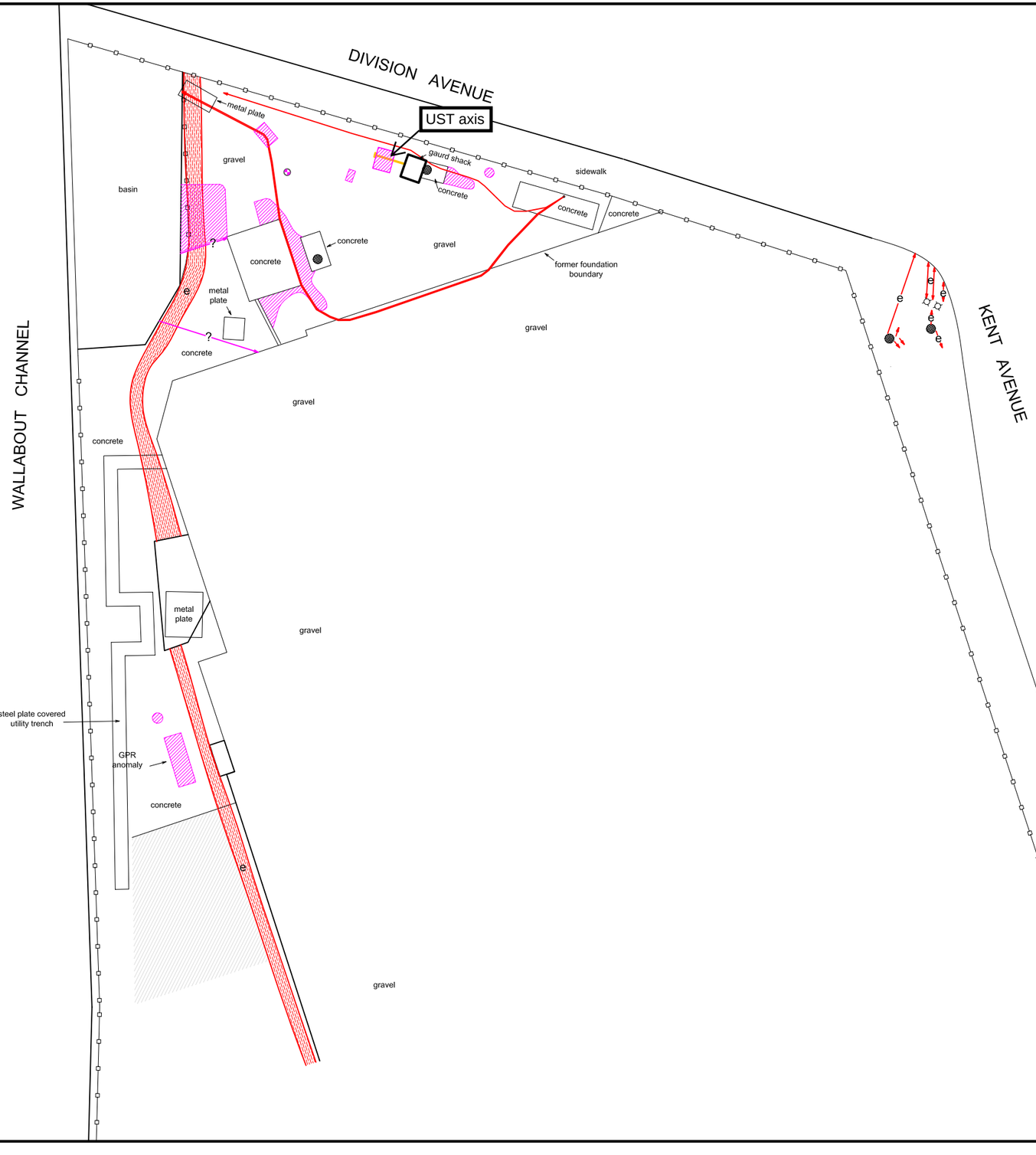
NAEVA GEOPHYSICS, INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

225 N. Route 303, Suite 102
Congers, NY. 10920
(845)268-1800
(845)268-1802 FAX

Figure 1. Area of Geophysical Investigation on the Southern Portion of a Con Edison Former Generating Station, 500 Kent Avenue, Brooklyn, New York

Client	Shaw Environmental & Infrastructure, Inc.	Date of Work	November 18 & 19, 2009
Project No.	C0911181Z	Map By	Kyle Keator

ALL UNDERGROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP



approximately

LEGEND

- electric line
- suspected utility
- chain-link fence
- electrical conduit bank
- manhole cover
- parking lot lamp
- proposed deliniation area
- suspect UST axis
- metal-detector anomaly
- reinforced concrete

0 15 30

Scale: One inch equals approximately thirty feet

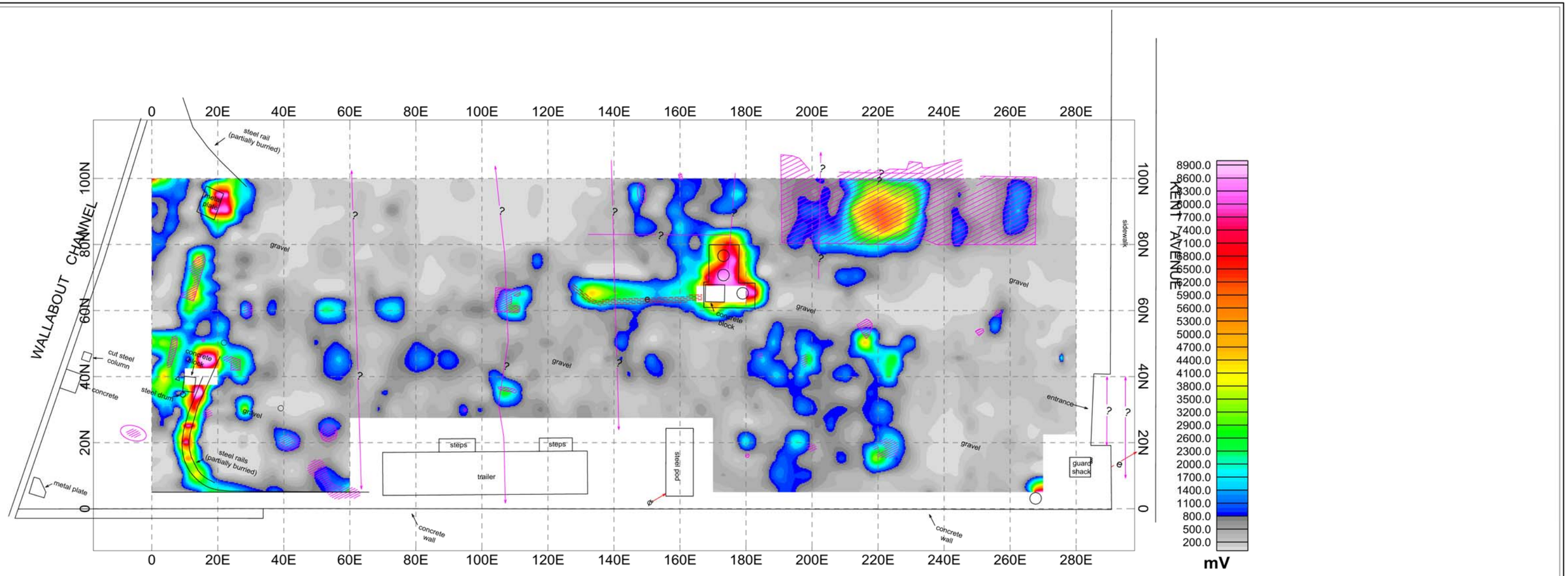
NAEVA GEOPHYSICS, INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

225 N. Route 303, Suite 102
Congers, NY. 10920
(845)268-1800
(845)268-1802 FAX

Figure 2. Area of Geophysical Investigation on the Northern Portion of a Con Edison Former Generating Station, 500 Kent Avenue, Brooklyn, New York

Client	Shaw Environmental & Infrastructure, Inc.	Date of Work	November 18 & 19, 2009
Project No.	C0911181Z	Map By	Kyle Keator

ALL UNDERGROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP



Scale 1:360

25 0 25 50

feet

Figure 1

NAEVA GEOPHYSICS INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

Shaw Environmental & Infrastructure, Inc.
Project Number: C0911181Z **EM-61 Bottom Coil** **Con Edison Former Generating Station** **Brooklyn, New York**
Date of Survey: November 18, 2009 Map By: Kyle V. Keator
ALL BELOW GROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP.

ATTACHMENT 2

BORING LOGS

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
Fax: (631) 472 4077

Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-1-5-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.08.2009**	DATE COMPLETED: **12.08.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15.0'**
GEOLOGIST: **Erika Cozza**		WEATHER: **38°, sunny**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				**NA**
			Concrete Slab				
			Drill through 8' of concrete				
5							
10		**24"**	**Silty clay w/strong petroleum odor, sheen**	**SC**			
			Gray coarse sand		**10'**		
			Sand - petroleum odor and slight staining	**SM**			
15		**12"**					
			End of Boring @ 15'				
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
Fax: (631) 472 4077

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-1-10-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.08.2009**	DATE COMPLETED: **12.08.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **8'**
GEOLOGIST: **Erika Cozza**		WEATHER: **38°, sunny**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				**NA**
			Concrete Slab				
			Drilled to 8' through concrete				
			Hit some metal and destroyed the drill bit.				
			No sample colleted				
5							
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
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Holbrook, New York 11741
Phone: (631)472 4000
Fax: (631) 472 4077

Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649 | **FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**

BORING PBL-1-5-S

UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.08.2009**	DATE COMPLETED: **12.08.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15.0'**
GEOLOGIST: **Erika Cozza**		WEATHER: **38°, sunny**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1' **Concrete Slab** **Drill to 5'**				**NA**
5							
	12:05	6"	**Brown coarse sand w/small rocks**	SW	9'		
10							
		34"	**Clayey sand - petroleum odor and staining**	SC	12'	224	
15							
			End of Boring @ 15'				
20							

NOTES:

Drilling Contractor:	ADT
Drilling Equipment:	Compact Roto Sonic 17-C
Driller:	Chris Stratton

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Fax: (631) 472 4077

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-1-10-S		
UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.08.2009**	DATE COMPLETED: **12.08.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15.0'**
GEOLOGIST: **Erika Cozza**		WEATHER: **38°, sunny**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
5			**Hand dig to 1'** **Concrete Slab** **Drill to 5'**				**NA**
10	**13:20**	**10"**	**Silty clay w/strong petroleum odor, sheen**	**SC**	**10'**	**58**	
15		**48"**	**Silty clay w/strong petroleum odor, sheen, product in soil**	**SC**			
20			**End of Boring @ 15'**				

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-1-10-E		
UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				**NA**
			Concrete slab				
			Drill to 5' - concrete				
5							
	15:30	**48"**	**Top 1' - Sand, brick, ash layer**	**SM**			
			6'-10": petroleum odor and staining		**6'**	**66.5**	
10					**10'**	**2.5**	
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**

BORING PBL-1-20-E

UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.11.2009**	DATE COMPLETED: **12.11.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **8'**
GEOLOGIST: **Erika Cozza**		WEATHER: **27°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				**NA**
			Concrete				
			Drill to 5'				
5							
	10:30	**26"**	**Concrete and brick debris, brn. Silty sand**	**SM**			
			Petroleum odor and staining in bottom 4"		**8'**	**24.9**	
			Concrete @ 8'				
			End of Boring @ 8'				
10							
15							
20							

NOTES:

Drilling Contractor:	ADT
Drilling Equipment:	Compact Roto Sonic 17-C
Driller:	Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-1-30-E		
UTILITY CLEARANCE (0' - 5') DATE: **12.14.2009**	DATE STARTED: **12.15.2009**	DATE COMPLETED: **12.15.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **47°, cloudy, chance of rain**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Concrete and coarse sand	**SW**			
5							
	9:05	**36"**	**Dark grey/brown sily soil with wood pieces**	**ML**			
			Petroleum odor and staining				
					9'	**30'**	
10							
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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Fax: (631) 472 4077

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BORING LOG

PROJECT NUMBER: 126649 | **FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**

BORING PBL-1-5-W

UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.08.2009**	DATE COMPLETED: **12.08.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15.0'**
GEOLOGIST: **Erika Cozza**		WEATHER: **38°, sunny**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1' **Concrete Slab**				**NA**
5							
	10:10	**30"**	**Top 15": Coarse sand/w rocks** **Bottom 15": Clay w/odor and staining**	**SW**			
10				**CL**	**9'**	**92.7**	
		48"	**Silty clay w/organics** **Strong petroleum odor w/staining and sheen**	**CL**			
15							
			End of Boring @ 15'				
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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Holbrook, New York 11741
Phone: (631)472 4000
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BORING LOG

PROJECT NUMBER: 126649 | **FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**

BORING PBL-1-10-W

UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.08.2009**	DATE COMPLETED: **12.08.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15.0'**
GEOLOGIST: **Erika Cozza**		WEATHER: **38°, sunny**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 3'				**NA**
			Concrete Slab				
5							
	10:15		**Top 12": Concrete debris, brown silty sand**	**SM**			
10		**24 "**	**Bottom 12": Sand w/visible staining + sheen + strong petroleum odor**	**SM**	**10'**	**339.0**	
15							
			End of Boring @ 15'				
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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Holbrook, New York 11741
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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-2-10-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.07.2009**	DATE STARTED: **12.11.2009**	DATE COMPLETED: **12.11.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15'**
GEOLOGIST: **Erika Cozza**		WEATHER: **27°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
5			**Hand dig to 1.5' - concrete with steel** **Drill through concrete to 5'**				**NA**
10	**11:45**	**0**	**No Recovery**				
15		**45"**	**Silty clayey soil** **Black petroleum** **Staining and odor**	**CL**	**11'**	**6.9**	
20			**End of Boring @ 15'**				

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
Fax: (631) 472 4077

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-2-30-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.14.2009**	DATE STARTED: **12.15.2009**	DATE COMPLETED: **12.15.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15'**
GEOLOGIST: **Erika Cozza**		WEATHER: **47°, cloudy, chance of rain**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Concrete, rubble				
5							
	11:45	**60"**	**Drilled to 10' through concrete**				
10							
			dk. grey/brown silty soil				
		24"	**Light staining and odor**		**10'**	**2.5**	
15							
			End of Boring @ 15'				
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-2-60-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.14.2009**	DATE STARTED: **12.15.2009**	DATE COMPLETED: **12.15.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15'**
GEOLOGIST: **Erika Cozza**		WEATHER: **47°, cloudy, chance of rain**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
5			**Hand dig/Vactron to 2'** **Drilled to 5' through concrete**				**NA**
10	**12:00**	**6"**	**Grey sand**	**SM**			
15		**36"**	**Organic grey clay** **No staining - organic odor** **Pieces of wood at bottom**	**CL**	**11'**	**15.4**	
20			**End of Boring @ 15'**				

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
Fax: (631) 472 4077

Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649 | **FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**

BORING PBL-2-10-E

UTILITY CLEARANCE (0' - 5') DATE: **12.07.2009**	DATE STARTED: **12.11.2009**	DATE COMPLETED: **12.11.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **27°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig - hit concrete at ~1'				**NA**
			Drill through concrete to 5'				
5							
	11:15	**50"**	**Brown silty sand**	**SM**			
			No odor/staining		**6'**	**0.7**	
			Bottom 1': dark grey soil				
			Petroleum odor and staining				
10					**10'**	**14.8**	
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor:	ADT
Drilling Equipment:	Compact Roto Sonic 17-C
Driller:	Chris Stratton

Shaw Environmental & Infrastructure, Inc.
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Holbrook, New York 11741
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Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-2-20-E		
UTILITY CLEARANCE (0' - 5') DATE:	DATE STARTED: **12.11.2009**	DATE COMPLETED: **12.11.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **27°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1' - concrete **Drill through concrete to 5'**				**NA**
5							
	11:50	**48"**	**Dark grey silty soil with staining and petroleum odor**	**ML**	**9'**	**27**	
10							
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
Fax: (631) 472 4077

BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-2-30-E		
UTILITY CLEARANCE (0' - 5') DATE:	DATE STARTED: **12.11.2009**	DATE COMPLETED: **12.11.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **27°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to concrete @ 1' **Drill through concrete to 5'**				**NA**
5							
	13:45	**45"**	**Silty dark grey with black stained soils** **Petroleum odor**	**ML**			
					9'	**18.7**	
10							
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor:	ADT
Drilling Equipment:	Compact Roto Sonic 17-C
Driller:	Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**

BORING PBL-2-60-E

UTILITY CLEARANCE (0' - 5') DATE: **12.14.2009**	DATE STARTED: **12.15.2009**	DATE COMPLETED: **12.15.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **11'**
GEOLOGIST: **Erika Cozza**		WEATHER: **47°, cloudy, chance of rain**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				NA
			Brown sand, silty fine soils with rocks and brick	SM			
			Slight petroleum odor				
					4'	53.9	
5							
	9:15	60"	Drilled through concrete				
10							
	0.4	12"	10'-11' - more concrete				
			End of Boring @ 11'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-5-5-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.8.2009**	DATE STARTED: **12.14.2009**	DATE COMPLETED: **12.14.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **8'**
GEOLOGIST: **Erika Cozza**		WEATHER: **45°, cloudy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				NA
			Drill to 5' - brown clayey sand with rocks and concrete	SM			
		36"					
5							
	12:25	30"	Drill to 5' - brown clayey sand with rocks and concrete No odor or staining Refusal @ 6'	SM	6'	1.1	
			End of Boring @ 8'				
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-5-10-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.8.2009**	DATE STARTED: **12.14.2009**	DATE COMPLETED: **12.14.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **6'**
GEOLOGIST: **Erika Cozza**		WEATHER: **45°, cloudy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				**NA**
			Drill to 5'				
			No recovery				
		0"					
5					5'	3.1	
		12"	**Grey/brown silty soil**	ML			
			Refusal @ 6'				
			End of Boring @ 6'				
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-5-10-S		
UTILITY CLEARANCE (0' - 5') DATE: **12.8.2009**	DATE STARTED: **12.14.2009**	DATE COMPLETED: **12.14.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **6'**
GEOLOGIST: **Erika Cozza**		WEATHER: **45°, cloudy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				NA
		(15")	Drill to 5'				
		28"	dk. Grey silty soil, concrete bits	ML			
					2'	4.7	
5							
		12"	Rubble, rocks				
			Refusal @ 6'				
			End of Boring @ 6'				
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-5-10-E		
UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.14.2009**	DATE COMPLETED: **12.14.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **5'**
GEOLOGIST: **Erika Cozza**		WEATHER: **45°, cloudy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				**NA**
			Drilled to 5' - hit refusal @ 5'				
			Grey/brown sily soil	**ML**			
	10:00	**30"**			**4'**	**2.2**	
5							
			End of Boring @ 5'				
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-5-2-W		
UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.14.2009**	DATE COMPLETED: **12.14.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **5'**
GEOLOGIST: **Erika Cozza**		WEATHER: **45°, cloudy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1'				**NA**
			Drilled to 5'				
			Concrete, rubble, brick, brown coarse sand	**SW**			
5							
	12:15		**Brown sand - refusal @ 8'**	**SM**	**7'**	**0.4**	
			End of Boring @ 8'				
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-7-5-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.02.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **9'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Rubble, pieces of rebar, brown silty sand	**SM**			
5							
	12:15	**45"**	**Brown loose sand**	**SM**			
			Bottom 10": clayey soil w/staining and petroleum odor		**6'**		
					8'		
				SC			
			End of Boring @ 9'				
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-7-10-N		
UTILITY CLEARANCE (0' - 5') DATE: **12.02.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **9'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Concrete, brick, rubble w/brown silty sand	**SM**			
5							
	12:05	**50"**	**Brown silty soil w/rocks, brick**	**SM**			
			Bottom 6": black stained soil		**6'**		
					9'		
10			**End of Boring @ 9'**				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-7-20-N		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand cleared to 5'				**NA**
			Brick, rubble, sand	**SM**			
5							
	13:30	**48"**	**Concrete, brick, sand**	**SM**	**5'**	**0**	
			Slight staining @ bottom				
10					**10'**	**0**	
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-7-5-S		
UTILITY CLEARANCE (0' - 5') DATE: **12.02.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **9'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Concrete, brick, rubble, brown silty sand	**SM**			
5							
	13:10	**30"**	**Brown silty soil w/rocks, concrete, bricks**	**SM**			
			No staining or odor		**8'**		
10			**End of Boring @ 9'**				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-7-10-S		
UTILITY CLEARANCE (0' - 5') DATE: **12.02.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **9.0'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain and wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				NA
			Brown, silty sand	SM			
5							
	12:50	45 "	Top 35": Loose, tan sand with concrete, bricks, wood.	SM	6'		
			Bottom 10": Black stained cinders, odor & staining present	SP	9'		
10			Endof Boring @ 9'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-7-20-S		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 5'				**NA**
5							
	13:45	**15"**	**Brown silty sand, concrete, bricks** **No odor or staining**	**SM**			
10					**10'**	**0.5**	
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-7-5-E		
UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **9'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5' **Rubble, concrete, brick, steel**				**NA**
5							
	11:55	**45"**	**Brown course sand w/bricks, rock** **Bottom 12": black soil, cinders**	**SW**	**8'**		
			Concrete @ 9'				
10			**End of Boring @ 9'**				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-7-10-E		
UTILITY CLEARANCE (0' - 5') DATE: **12.04.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **9'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Concrete, brick, rubble, brown silty sand	**SM**			
5							
	11:50	**45"**	**Top 30": bricks, rock**				
			Bottom 12": gray silty sand with rocks	**SM**			
					8'		
10			**End of Boring @ 9'**				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**

BORING PBL-7-2-W

UTILITY CLEARANCE (0' - 5') DATE: **12.03.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **9'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron, concrete @ 1' - 5'				**NA**
			Slight petroleum odor @ 5'				
5			**Brown silty sand rubble**	**SM**			
	12:35	**40"**	**Top 12': brown silty sand with rubble, slight petroleum odor**	**SM**	**5'**		
			Staining, petroleum odor present				
			Gray cinders, petroleum odor and staining	**SW**			
			Concrete @ 9'		**9'**		
10			**End of Boring @ 9'**				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-7-20-W		
UTILITY CLEARANCE (0' - 5') DATE: **12.03.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **7'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Bricks, concrete, rubble				
			Concrete slab @ 4' - 5'				
5							
	12:20	**24"**	**Bricks, rocks, wood**		**5'**		
		(5'-7')					
			Slight odor @7', concrete @ 7'		**7'**		
			End of Boring @ 7'				
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-8-5-N		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **5'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 1.5'				**NA**
			Concrete block with rebar				
	9:20	**-**	**Drill to 5' - hit rebar and damage bit**				
			Refusal @ 5'				
5							
10							
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**

BORING PBL-8-10-N

UTILITY CLEARANCE (0' - 5') DATE: **12.1.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 2.5'				**NA**
			Refusal @ concrete slab				
			Drill to 5'				
5							
	9:20	**22"**	**Concrete and brick**		**5'**	**0.5**	
			Black stained soil with odor at bottom	**SM**			
10					**9.5'**	**61.3**	
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor:	ADT
Drilling Equipment:	Compact Roto Sonic 17-C
Driller:	Chris Stratton

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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-8-5-S		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 3' **Steel and timber** **Drill to 5'**				**NA**
5							
	10:30	**46"**	**Brown silty soil with bricks, concrete, timber** **Bottom 16": black stained soil** **Strong petroleum odor**	**SM**	**5'**	**2.5**	
10					**9.5**	**53.7**	
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
Fax: (631) 472 4077

Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-8-5-S		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Light brown silty sand	**SM**			
5							
	10:50	**48"**	**Brown fine sand**	**SM**	**5'**		
			Bottom 18": black stained sand with petroleum odor				
					9'	**63.9**	
10							
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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101-1 Colin Drive
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Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-8-10-S		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Light brown silty sand	**SM**			
5							
	10:50	**48"**	**Brown fine sand**	**SM**	**5'**		
			Bottom 18": black stained sand with petroleum odor				
					9'	**63.9**	
10							
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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101-1 Colin Drive
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Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-8-20-S		
UTILITY CLEARANCE (0' - 5') DATE:	DATE STARTED: **12.11.2009**	DATE COMPLETED: **12.11.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **12'**
GEOLOGIST: **Erika Cozza**		WEATHER: **27°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 5' **Rubble, bricks, concrete**				**NA**
5							
	14:30	**48"**	**Brown silty soil with bricks and concrete**	**ML**	**6'**	**133**	
10							
					11'	**117**	
			End of Boring @ 12'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
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BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-8-30-S		
UTILITY CLEARANCE (0' - 5') DATE: **12.14.2009**	DATE STARTED: **12.15.2009**	DATE COMPLETED: **12.15.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15'**
GEOLOGIST: **Erika Cozza**		WEATHER: **47°, cloudy, chance of rain**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5' **Bricks**				**NA**
5							
	12:15	**0"**	**Drill to 9'** **All bricks - no recovery for sample**		-	-	
10			**End of Boring @ 9'**				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

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Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-8-60-S		
UTILITY CLEARANCE (0' - 5') DATE: **12.14.2009**	DATE STARTED: **12.15.2009**	DATE COMPLETED: **12.15.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **15'**
GEOLOGIST: **Erika Cozza**		WEATHER: **47°, cloudy, chance of rain**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Bricks, brown soil	**SM**			
5							
	12:30	**6"**	**Bricks and grey cinder/ash**	**SW**			
10							
	0.5	**48"**	**Grey cinder ash with brick**		**12'**	**12.8**	
15							
			End of Boring @ 15'				
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
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Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-8-5-E		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 5' **Bricks, concrete, debris**				**NA**
5							
	8:45	**45"**	**Dark brown silty soil with bricks and concrete** **Bottom 6": black stained soil and odor**	**SM**	**5'**	**2.3**	
10					**9.5**	**11.5**	
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
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Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-8-10-E		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.10.2009**	DATE COMPLETED: **12.10.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **36°, sunny and windy**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig/Vactron to 5'				**NA**
			Concrete, brick, debris and brown silty sand	**SM**			
5							
	9:00	**40"**	**Brown silty sand with concrete and bricks**	**SM**			
			Bottom 6": staining and petrolium odor		**6'**	**9.1**	
10					**10'**	**68.2**	
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
Holbrook, New York 11741
Phone: (631)472 4000
Fax: (631) 472 4077

Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY	
BORING PBL-8-5-W		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
			Hand dig to 3'				**NA**
			(Bricks)				
			Drill to 5'				
5							
		48"	**Top foot - bricks and concrete**		**5'**		
			Middle - 2' 6" - silty sand - brown	**SM**			
			Bottom 6" - black stained soil				
10					**10'**		
			Strong petroleum odor				
			End of Boring @ 10'				
15							
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

Shaw Environmental & Infrastructure, Inc.
101-1 Colin Drive
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Phone: (631)472 4000
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Shaw The Shaw Group Inc.™

BORING LOG

PROJECT NUMBER: 126649	**FORMER KENT AVENUE GENERATING STATION, KENT AVENUE, BROOKLYN, NY**	
BORING PBL-8-10-W		
UTILITY CLEARANCE (0' - 5') DATE: **11.30.2009**	DATE STARTED: **12.09.2009**	DATE COMPLETED: **12.09.2009**
ELEVATION:	GROUNDWATER LEVEL:	TOTAL BORING DEPTH: **10'**
GEOLOGIST: **Erika Cozza**		WEATHER: **50°, heavy rain, wind**
DRILLING METHOD: **Compact RotoSonic 17-C**		PAGE: **1 of 1**

DEPTH (ft)	TIME	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	SAMPLE	PID DATA (ppm)	BLOW COUNTS
5			**Hand dig/Vactron to 5'** **Bricks, concrete, timber, rubble, rebar**				**NA**
10		**30"**	**Wet brown silty soil** **Rocks and brick - no odor or staining**	**SM**	**8'**		
15			**End of Boring @ 10'**				
20							

NOTES:

Drilling Contractor: ADT

Drilling Equipment: Compact Roto Sonic 17-C

Driller: Chris Stratton

ATTACHMENT 3

PHOTOGRAPHS

Photo 1: Roto Sonic Drill Rig and Support Truck.

Photo – 2: Drill Core Sample – PBL-1-10-W.

Photo – 3: Drill Core Sample – PBL-1-5-W.

Photo – 4: Drill Core Sample – PBL-1-5-S.

Photo – 5: Drill Core Sample, Close Up – PBL-1-5-S.

Photo – 6: Drill Core Sample – PBL-1-5-S, After Sample Collection.

ATTACHMENT 4

WASTE CHARACTERIZATION RESULTS

Consolidated Edison
Environment, Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 10-03385-001 Date Approved: 4/27/2010
Incident Number: Date Received: 4/20/2010
Chain of Custody ID: GG37615 Date Sampled: 4/20/2010

Submitter: DAVID B RUBIN
Job Site: 500 KENT AVE
Email To: RUBIND@coned.com|EA-ChemLabReports|BQCHEMLABRESULTS
Cc To: BORGIAN@coned.com|MUSTOM@coned.com|
GENTILEM@coned.com|

NOTE: The Submitter shall post and/or provide these results to all employees working with or in the vicinity of this substance. This report shall not be reproduced, except in full, without the written consent of EH&S. Test results are representative only of submitted samples.

==========

Results of Analysis

==========

MATRIX: SOIL COMPOSITE
LOCATION: 4 DRUMS 'DRILL CUTTINGS & SOIL'
SAMPLED: 10:45 AM 4/20/2010 By: 05189

PCB Analysis by EPA 608/8082

TEST DESCRIPTION	RESULT	UNIT	METHOD
Aroclor 1016	206	ug/Kg	EPA 8082/608
Aroclor 1221	< 21.9	ug/Kg	EPA 8082/608
Aroclor 1232	< 21.9	ug/Kg	EPA 8082/608
Aroclor 1242	< 21.9	ug/Kg	EPA 8082/608
Aroclor 1248	< 21.9	ug/Kg	EPA 8082/608
Aroclor 1254	< 21.9	ug/Kg	EPA 8082/608
Aroclor 1260	607	ug/Kg	EPA 8082/608
% Solids	72.5	%	SM 2540B
TOTAL PCB	813.00	ug/Kg	

Analyzed by: ENVIRONMENTAL TESTING LABS INC.

ppm = mg/L = mg/Kg
ppb = ug/L = ug/Kg
ppt = ng/L = ng/Kg

Approval Status: APPROVED
Approved By: Ian Gooding
Title: TECHNICIAN

Consolidated Edison
Environment, Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 10-03385-002 Date Approved: 4/27/2010
Incident Number: Date Received: 4/20/2010
Chain of Custody ID: GG37615 Date Sampled: 4/20/2010

Submitter: DAVID B RUBIN
Job Site: 500 KENT AVE
Email To: RUBIND@coned.com|EA-ChemLabReports|BQCHEMLABRESULTS
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==========

Results of Analysis

==========

MATRIX: SOIL GRAB
LOCATION: 4 DRUMS 'DRILL CUTTINGS & SOIL'
SAMPLED: 10:45 AM 4/20/2010 By: 05189

TCLP Volatile Organics

TEST DESCRIPTION	REGULATORY LIMIT mg/L	RESULT	UNIT	METHOD
Benzene	0.50	< 0.0043	mg/L	SW846-1311/EPA 8260
Carbon Tetrachloride	0.50	< 0.0044	mg/L	SW846-1311/EPA 8260
Chlorobenzene	100.0	< 0.0048	mg/L	SW846-1311/EPA 8260
Chloroform	6.00	< 0.0046	mg/L	SW846-1311/EPA 8260
1,4-Dichlorobenzene	7.50	< 0.0040	mg/L	SW846-1311/EPA 8260
1,2-Dichloroethane	0.50	< 0.0050	mg/L	SW846-1311/EPA 8260
1,1-Dichloroethene	0.70	< 0.0037	mg/L	SW846-1311/EPA 8260
Methyl Ethyl Ketone (MEK)	200.0	< 0.019	mg/L	SW846-1311/EPA 8260
Tetrachloroethene	0.70	< 0.0059	mg/L	SW846-1311/EPA 8260
Trichloroethene	0.50	< 0.0046	mg/L	SW846-1311/EPA 8260
Vinyl Chloride	0.20	< 0.0043	mg/L	SW846-1311/EPA 8260

Analyzed by: ENVIRONMENTAL TESTING LABS INC.

ppm = mg/L = mg/Kg
ppb = ug/L = ug/Kg
ppt = ng/L = ng/Kg

Approval Status: APPROVED
Approved By: Ian Gooding
Title: TECHNICIAN

Consolidated Edison
Environment, Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 10-03385-003 Date Approved: 4/27/2010
Incident Number: Date Received: 4/20/2010
Chain of Custody ID: GG37615 Date Sampled: 4/20/2010

Submitter: DAVID B RUBIN
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==========

Results of Analysis

==========

MATRIX: SOIL COMPOSITE
LOCATION: 4 DRUMS 'DRILL CUTTINGS & SOIL'
SAMPLED: 10:45 AM 4/20/2010 By: 05189

(TCLP) Semivolatiles Analysis by EPA 625/8270C/1311

TEST DESCRIPTION	REGULATORY LIMIT mg/L	RESULT	UNIT	METHOD
o-Cresol	200.0	< 0.0050	mg/L	SW846-1311/EPA 8270
m,p-Cresol	200.0	< 0.0017	mg/L	SW846-1311/EPA 8270
Cresols, Total	200.0	< 0.0067	mg/L	SW846-1311/EPA 8270
1,4-Dichlorobenzene		< 0.0074	mg/L	SW846-1311/EPA 8270
2,4-Dinitrotoluene	0.13	< 0.0062	mg/L	SW846-1311/EPA 8270
Hexachlorobenzene	0.13	< 0.0073	mg/L	SW846-1311/EPA 8270
Hexachlorobutadiene	0.50	< 0.010	mg/L	SW846-1311/EPA 8270
Hexachloroethane	3.00	< 0.0099	mg/L	SW846-1311/EPA 8270
Nitrobenzene	2.00	< 0.0091	mg/L	SW846-1311/EPA 8270
Pentachlorophenol	100.0	< 0.0081	mg/L	SW846-1311/EPA 8270
Pyridine	5.00	< 0.0037	mg/L	SW846-1311/EPA 8270
2,4,5-Trichlorophenol	400.0	< 0.0059	mg/L	SW846-1311/EPA 8270
2,4,6-Trichlorophenol	2.00	< 0.0075	mg/L	SW846-1311/EPA 8270

Analyzed by: ENVIRONMENTAL TESTING LABS INC.

ppm = mg/L = mg/Kg
ppb = ug/L = ug/Kg
ppt = ng/L = ng/Kg

Approval Status: APPROVED
Approved By: Ian Gooding
Title: TECHNICIAN

Consolidated Edison
Environment, Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 10-03385-004 Date Approved: 4/27/2010
Incident Number: Date Received: 4/20/2010
Chain of Custody ID: GG37615 Date Sampled: 4/20/2010

Submitter: DAVID B RUBIN
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GENTILEM@coned.com|

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==========

Results of Analysis

==========

MATRIX: SOIL COMPOSITE
LOCATION: 4 DRUMS 'DRILL CUTTINGS & SOIL'
SAMPLED: 10:45 AM 4/20/2010 By: 05189

(TCLP) RCRA Metals by EPA 200.7/200 Series/6010B/7000 Series

TEST DESCRIPTION	REGULATORY LIMIT mg/L	RESULT	UNIT	METHOD
Arsenic as As	5.00	< 0.030	mg/L	SW846 1311/6010
Barium as Ba	100.0	0.21	mg/L	SW846 1311/6010
Cadmium as Cd	1.00	< 0.0030	mg/L	SW846 1311/6010
Chromium as Cr	5.00	0.044	mg/L	SW846 1311/6010
Lead as Pb	5.00	< 0.019	mg/L	SW846 1311/6010
Mercury as Hg	0.20	< 0.000020	mg/L	SW846 1311/7470/7471
Selenium as Se	1.00	< 0.070	mg/L	SW846 1311/6010
Silver as Ag	5.00	< 0.010	mg/L	SW846 1311/6010

Analyzed by: ENVIRONMENTAL TESTING LABS INC.

ppm = mg/L = mg/Kg
ppb = ug/L = ug/Kg
ppt = ng/L = ng/Kg

Approval Status: APPROVED
Approved By: Ian Gooding
Title: TECHNICIAN

Consolidated Edison
Environment, Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 10-03385-005 Date Approved: 4/27/2010
Incident Number: Date Received: 4/20/2010
Chain of Custody ID: GG37615 Date Sampled: 4/20/2010

Submitter: DAVID B RUBIN
Job Site: 500 KENT AVE
Email To: RUBIND@coned.com|EA-ChemLabReports|BQCHEMLABRESULTS
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GENTILEM@coned.com|

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==========

Results of Analysis

==========

MATRIX: SOIL COMPOSITE
LOCATION: 4 DRUMS 'DRILL CUTTINGS & SOIL'
SAMPLED: 10:45 AM 4/20/2010 By: 05189

Results of Analysis

TEST DESCRIPTION	RESULT	UNIT	METHOD
Ignitability of Solids	> 100	DEG C	SW 846 1010
pH	9.63	pH Units	SW-846 9045C
Cyanide as HCN, Releaseable	< 0.10	mg/Kg	SW 846 9010
Sulfide as H2S, Releaseable	< 0.010	mg/Kg	SW 846 9010
% Solids	73.8	%	SM 2540B

Analyzed by: ENVIRONMENTAL TESTING LABS INC.

ppm = mg/L = mg/Kg
ppb = ug/L = ug/Kg
ppt = ng/L = ng/Kg

Approval Status: APPROVED
Approved By: Ian Gooding
Title: TECHNICIAN

--End of Report-- Results at: http://ilims

ATTACHMENT 5

ANALYTICAL LABORATORY REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 220-10963-1

Job Description: Con Edison, Kent Avenue Generating

For:
Shaw Environmental & Infrastructure, Inc
92 North Avenue
New Rochelle, NY 10801

Attention: Ms. Erika Cozza

Approved for release.
Jill M Duhancik
Project Manager I
12/14/2009 7:08 PM

Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
12/14/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

Table of Contents

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 25254 was outside control limits.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-10963-1	PBL-7-10-E(8')	Solid	12/09/2009 1150	12/09/2009 1830
220-10963-2	PBL-7-5-E(8')	Solid	12/09/2009 1200	12/09/2009 1830
220-10963-3	PBL-7-10-N(6')	Solid	12/09/2009 1210	12/09/2009 1830
220-10963-4	PBL-7-10-N(9')	Solid	12/09/2009 1212	12/09/2009 1830
220-10963-5	PBL-7-5-N(6')	Solid	12/09/2009 1220	12/09/2009 1830
220-10963-6	PBL-7-5-N(8')	Solid	12/09/2009 1221	12/09/2009 1830
220-10963-7	PBL-7-20-W(5')	Solid	12/09/2009 1225	12/09/2009 1830
220-10963-8	PBL-7-20-W(7')	Solid	12/09/2009 1226	12/09/2009 1830
220-10963-9	PBL-7-2-W(5')	Solid	12/09/2009 1245	12/09/2009 1830
220-10963-10	PBL-7-2-W(9')	Solid	12/09/2009 1247	12/09/2009 1830
220-10963-11	PBL-7-10-S(6')	Solid	12/09/2009 1255	12/09/2009 1830
220-10963-12	PBL-7-10-S(9')	Solid	12/09/2009 1256	12/09/2009 1830
220-10963-13	PBL-7-5-S(8')	Solid	12/09/2009 1310	12/09/2009 1830

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-E(8')**

Lab Sample ID: 220-10963-1 | Date Sampled: 12/09/2009 1150
Client Matrix: Solid | % Moisture: 14.2 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25356		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	u56801.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1036			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		380	U	47	380
2-Chlorophenol		380	U	52	380
2-Methylphenol		380	U	55	380
4-Methylphenol		380	U	63	380
2-Nitrophenol		380	U	63	380
2,4-Dimethylphenol		380	U	62	380
2,4-Dichlorophenol		380	U	62	380
4-Chloro-3-methylphenol		380	U	65	380
2,4,6-Trichlorophenol		380	U	69	380
2,4,5-Trichlorophenol		380	U	74	380
2,4-Dinitrophenol		1200	U	82	1200
4-Nitrophenol		1200	U	99	1200
4,6-Dinitro-2-methylphenol		1200	U	180	1200
Pentachlorophenol		1200	U	190	1200
Bis(2-chloroethyl)ether		38	U	8.0	38
N-Nitrosodi-n-propylamine		38	U	5.1	38
Hexachloroethane		38	U	6.5	38
Nitrobenzene		38	U	8.6	38
Isophorone		380	U	44	380
Bis(2-chloroethoxy)methane		380	U	55	380
Naphthalene		380	U	56	380
4-Chloroaniline		380	U	48	380
Hexachlorobutadiene		78	U	16	78
2-Methylnaphthalene		60	J	56	380
Hexachlorocyclopentadiene		380	U	110	380
2-Chloronaphthalene		380	U	54	380
2-Nitroaniline		780	U	110	780
Dimethyl phthalate		380	U	52	380
Acenaphthylene		380	U	55	380
2,6-Dinitrotoluene		78	U	9.8	78
3-Nitroaniline		780	U	87	780
Acenaphthene		380	U	55	380
Dibenzofuran		380	U	58	380
2,4-Dinitrotoluene		78	U	11	78
Diethyl phthalate		380	U	52	380
4-Chlorophenyl phenyl ether		380	U	66	380
Fluorene		380	U	65	380
4-Nitroaniline		780	U	80	780
N-Nitrosodiphenylamine		250	J	63	380
4-Bromophenyl phenyl ether		380	U	69	380
Hexachlorobenzene		38	U	5.3	38
Phenanthrene		130	J	67	380
Anthracene		380	U	68	380
Carbazole		380	U	61	380
Di-n-butyl phthalate		380	U	59	380
Fluoranthene		380	U	64	380

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-E(8')**

Lab Sample ID: 220-10963-1 Date Sampled: 12/09/2009 1150
Client Matrix: Solid % Moisture: 14.2 Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25356		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	u56801.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1036			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		380	U	67	380
Butyl benzyl phthalate		380	U	45	380
3,3'-Dichlorobenzidine		780	U	85	780
Benzo[a]anthracene		38	U	7.1	38
Chrysene		380	U	56	380
Bis(2-ethylhexyl) phthalate		380	U	51	380
Di-n-octyl phthalate		380	U	46	380
Benzo[b]fluoranthene		38	U	5.7	38
Benzo[k]fluoranthene		38	U	5.4	38
Benzo[a]pyrene		38	U	4.7	38
Indeno[1,2,3-cd]pyrene		38	U	6.2	38
Dibenz(a,h)anthracene		38	U	4.6	38
Benzo[g,h,i]perylene		380	U	41	380
1,1'-Biphenyl		380	U	64	380
Acetophenone		380	U	57	380
Benzaldehyde		380	U	24	380
Caprolactam		380	U	53	380
Atrazine		380	U	72	380
2,2'-oxybis[1-chloropropane]		380	U	51	380

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		38 - 105
Phenol-d5	68		41 - 118
Terphenyl-d14	64		16 - 151
2,4,6-Tribromophenol	41		10 - 120
2-Fluorophenol	63		37 - 125
2-Fluorobiphenyl	78		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-E(8')**

Lab Sample ID: 220-10963-2 | Date Sampled: 12/09/2009 1200
Client Matrix: Solid | % Moisture: 22.7 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10693.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/14/2009 0110			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		430	U	52	430
2-Chlorophenol		430	U	57	430
2-Methylphenol		430	U	61	430
4-Methylphenol		430	U	70	430
2-Nitrophenol		430	U	70	430
2,4-Dimethylphenol		430	U	68	430
2,4-Dichlorophenol		430	U	68	430
4-Chloro-3-methylphenol		430	U	72	430
2,4,6-Trichlorophenol		430	U	76	430
2,4,5-Trichlorophenol		430	U	82	430
2,4-Dinitrophenol		1300	U	91	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	200	1300
Pentachlorophenol		1300	U	210	1300
Bis(2-chloroethyl)ether		43	U	8.9	43
N-Nitrosodi-n-propylamine		43	U	5.6	43
Hexachloroethane		43	U	7.2	43
Nitrobenzene		43	U	9.6	43
Isophorone		430	U	49	430
Bis(2-chloroethoxy)methane		430	U	61	430
Naphthalene		430	U	63	430
4-Chloroaniline		430	U	54	430
Hexachlorobutadiene		87	U	17	87
2-Methylnaphthalene		430	U	62	430
Hexachlorocyclopentadiene		430	U	120	430
2-Chloronaphthalene		430	U	60	430
2-Nitroaniline		870	U	120	870
Dimethyl phthalate		430	U	58	430
Acenaphthylene		430	U	61	430
2,6-Dinitrotoluene		87	U	11	87
3-Nitroaniline		870	U	97	870
Acenaphthene		430	U	61	430
Dibenzofuran		430	U	64	430
2,4-Dinitrotoluene		87	U	12	87
Diethyl phthalate		430	U	57	430
4-Chlorophenyl phenyl ether		430	U	73	430
Fluorene		430	U	72	430
4-Nitroaniline		870	U	88	870
N-Nitrosodiphenylamine		430	U	70	430
4-Bromophenyl phenyl ether		430	U	76	430
Hexachlorobenzene		43	U	5.9	43
Phenanthrene		430	U	75	430
Anthracene		430	U	75	430
Carbazole		430	U	68	430
Di-n-butyl phthalate		430	U	65	430
Fluoranthene		430	U	71	430

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-E(8')**

Lab Sample ID: 220-10963-2 | Date Sampled: 12/09/2009 1200
Client Matrix: Solid | % Moisture: 22.7 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10693.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/14/2009 0110			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		430	U	74	430
Butyl benzyl phthalate		430	U	50	430
3,3'-Dichlorobenzidine		870	U	95	870
Benzo[a]anthracene		43	U	7.9	43
Chrysene		430	U	62	430
Bis(2-ethylhexyl) phthalate		430	U	57	430
Di-n-octyl phthalate		430	U	51	430
Benzo[b]fluoranthene		21	J	6.4	43
Benzo[k]fluoranthene		43	U	6.0	43
Benzo[a]pyrene		43	U	5.3	43
Indeno[1,2,3-cd]pyrene		43	U	6.8	43
Dibenz(a,h)anthracene		43	U	5.1	43
Benzo[g,h,i]perylene		430	U	45	430
1,1'-Biphenyl		430	U	70	430
Acetophenone		430	U	63	430
Benzaldehyde		430	U	27	430
Caprolactam		430	U	59	430
Atrazine		430	U	80	430
2,2'-oxybis[1-chloropropane]		430	U	56	430

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		38 - 105
Phenol-d5	76		41 - 118
Terphenyl-d14	75		16 - 151
2,4,6-Tribromophenol	62		10 - 120
2-Fluorophenol	78		37 - 125
2-Fluorobiphenyl	70		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-N(6')**

Lab Sample ID: 220-10963-3
Client Matrix: Solid
% Moisture: 12.0

Date Sampled: 12/09/2009 1210
Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10708.d
Dilution:	1.0			Initial Weight/Volume:	14.99 g
Date Analyzed:	12/14/2009 0754			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		380	U	46	380
2-Chlorophenol		380	U	50	380
2-Methylphenol		380	U	54	380
4-Methylphenol		380	U	62	380
2-Nitrophenol		380	U	62	380
2,4-Dimethylphenol		380	U	60	380
2,4-Dichlorophenol		380	U	60	380
4-Chloro-3-methylphenol		380	U	63	380
2,4,6-Trichlorophenol		380	U	67	380
2,4,5-Trichlorophenol		380	U	72	380
2,4-Dinitrophenol		1100	U	80	1100
4-Nitrophenol		1100	U	97	1100
4,6-Dinitro-2-methylphenol		1100	U	180	1100
Pentachlorophenol		1100	U	180	1100
Bis(2-chloroethyl)ether		38	U	7.8	38
N-Nitrosodi-n-propylamine		38	U	5.0	38
Hexachloroethane		38	U	6.3	38
Nitrobenzene		38	U	8.4	38
Isophorone		380	U	43	380
Bis(2-chloroethoxy)methane		380	U	54	380
Naphthalene		380	U	55	380
4-Chloroaniline		380	U	47	380
Hexachlorobutadiene		76	U	15	76
2-Methylnaphthalene		380	U	55	380
Hexachlorocyclopentadiene		380	U	110	380
2-Chloronaphthalene		380	U	53	380
2-Nitroaniline		760	U	100	760
Dimethyl phthalate		380	U	51	380
Acenaphthylene		380	U	54	380
2,6-Dinitrotoluene		76	U	9.6	76
3-Nitroaniline		760	U	85	760
Acenaphthene		380	U	54	380
Dibenzofuran		380	U	57	380
2,4-Dinitrotoluene		76	U	11	76
Diethyl phthalate		380	U	50	380
4-Chlorophenyl phenyl ether		380	U	65	380
Fluorene		380	U	64	380
4-Nitroaniline		760	U	78	760
N-Nitrosodiphenylamine		380	U	61	380
4-Bromophenyl phenyl ether		380	U	67	380
Hexachlorobenzene		38	U	5.2	38
Phenanthrene		380	U	66	380
Anthracene		380	U	66	380
Carbazole		380	U	60	380
Di-n-butyl phthalate		380	U	58	380
Fluoranthene		380	U	63	380

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-N(6')**

Lab Sample ID: 220-10963-3 Date Sampled: 12/09/2009 1210
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10708.d
Dilution:	1.0			Initial Weight/Volume:	14.99 g
Date Analyzed:	12/14/2009 0754			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		380	U	65	380
Butyl benzyl phthalate		380	U	44	380
3,3'-Dichlorobenzidine		760	U	83	760
Benzo[a]anthracene		44		7.0	38
Chrysene		72	J	55	380
Bis(2-ethylhexyl) phthalate		380	U	50	380
Di-n-octyl phthalate		380	U	45	380
Benzo[b]fluoranthene		64		5.6	38
Benzo[k]fluoranthene		38	U	5.3	38
Benzo[a]pyrene		27	J	4.6	38
Indeno[1,2,3-cd]pyrene		38	U	6.0	38
Dibenz(a,h)anthracene		38	U	4.5	38
Benzo[g,h,i]perylene		380	U	40	380
1,1'-Biphenyl		380	U	62	380
Acetophenone		380	U	56	380
Benzaldehyde		380	U	24	380
Caprolactam		380	U	52	380
Atrazine		380	U	70	380
2,2'-oxybis[1-chloropropane]		380	U	49	380

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		38 - 105
Phenol-d5	67		41 - 118
Terphenyl-d14	72		16 - 151
2,4,6-Tribromophenol	35		10 - 120
2-Fluorophenol	72		37 - 125
2-Fluorobiphenyl	76		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-N(9')**

Lab Sample ID: 220-10963-4 | Date Sampled: 12/09/2009 1212
Client Matrix: Solid | % Moisture: 14.9 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25379		Instrument ID:	BNAMS11
Preparation:	3541	Prep Batch: 460-25320		Lab File ID:	z6626.d
Dilution:	2.0			Initial Weight/Volume:	15.05 g
Date Analyzed:	12/14/2009 1429			Final Weight/Volume:	1 mL
Date Prepared:	12/14/2009 0843			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		770	U	95	770
2-Chlorophenol		770	U	100	770
2-Methylphenol		770	U	110	770
4-Methylphenol		770	U	130	770
2-Nitrophenol		770	U	130	770
2,4-Dimethylphenol		770	U	120	770
2,4-Dichlorophenol		770	U	120	770
4-Chloro-3-methylphenol		770	U	130	770
2,4,6-Trichlorophenol		770	U	140	770
2,4,5-Trichlorophenol		770	U	150	770
2,4-Dinitrophenol		2300	U *	160	2300
4-Nitrophenol		2300	U	200	2300
4,6-Dinitro-2-methylphenol		2300	U	370	2300
Pentachlorophenol		2300	U	380	2300
Bis(2-chloroethyl)ether		77	U	16	77
N-Nitrosodi-n-propylamine		77	U	10	77
Hexachloroethane		77	U	13	77
Nitrobenzene		77	U	17	77
Isophorone		770	U	89	770
Bis(2-chloroethoxy)methane		770	U	110	770
Naphthalene		770	U	110	770
4-Chloroaniline		770	U	97	770
Hexachlorobutadiene		160	U	31	160
2-Methylnaphthalene		770	U	110	770
Hexachlorocyclopentadiene		770	U	230	770
2-Chloronaphthalene		770	U	110	770
2-Nitroaniline		1600	U	210	1600
Dimethyl phthalate		770	U	100	770
Acenaphthylene		770	U	110	770
2,6-Dinitrotoluene		160	U	20	160
3-Nitroaniline		1600	U	180	1600
Acenaphthene		770	U	110	770
Dibenzofuran		770	U	120	770
2,4-Dinitrotoluene		160	U	23	160
Diethyl phthalate		770	U	100	770
4-Chlorophenyl phenyl ether		770	U	130	770
Fluorene		770	U	130	770
4-Nitroaniline		1600	U	160	1600
N-Nitrosodiphenylamine		470	J	130	770
4-Bromophenyl phenyl ether		770	U	140	770
Hexachlorobenzene		77	U	11	77
Phenanthrene		260	J	140	770
Anthracene		770	U	140	770
Carbazole		770	U	120	770
Di-n-butyl phthalate		770	U	120	770
Fluoranthene		280	J	130	770

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-N(9')**

Lab Sample ID: 220-10963-4 | Date Sampled: 12/09/2009 1212
Client Matrix: Solid | % Moisture: 14.9 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25379		Instrument ID:	BNAMS11
Preparation:	3541	Prep Batch: 460-25320		Lab File ID:	z6626.d
Dilution:	2.0			Initial Weight/Volume:	15.05 g
Date Analyzed:	12/14/2009 1429			Final Weight/Volume:	1 mL
Date Prepared:	12/14/2009 0843			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		240	J	130	770
Butyl benzyl phthalate		770	U	90	770
3,3'-Dichlorobenzidine		1600	U	170	1600
Benzo[a]anthracene		170		14	77
Chrysene		210	J	110	770
Bis(2-ethylhexyl) phthalate		770	U	100	770
Di-n-octyl phthalate		770	U	92	770
Benzo[b]fluoranthene		77	U	12	77
Benzo[k]fluoranthene		77	U	11	77
Benzo[a]pyrene		77	U	9.5	77
Indeno[1,2,3-cd]pyrene		77	U	12	77
Dibenz(a,h)anthracene		77	U	9.3	77
Benzo[g,h,i]perylene		770	U	82	770
1,1'-Biphenyl		770	U	130	770
Acetophenone		770	U	110	770
Benzaldehyde		770	U	48	770
Caprolactam		770	U	110	770
Atrazine		770	U	140	770
2,2'-oxybis[1-chloropropane]		770	U	100	770

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	54		38 - 105
Phenol-d5	46		41 - 118
Terphenyl-d14	52		16 - 151
2,4,6-Tribromophenol	52		10 - 120
2-Fluorophenol	49		37 - 125
2-Fluorobiphenyl	64		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-N(6')**

Lab Sample ID: 220-10963-5 | Date Sampled: 12/09/2009 1220
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10696.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0230			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		350	U	43	350
2-Chlorophenol		350	U	47	350
2-Methylphenol		350	U	51	350
4-Methylphenol		350	U	58	350
2-Nitrophenol		350	U	58	350
2,4-Dimethylphenol		350	U	56	350
2,4-Dichlorophenol		350	U	56	350
4-Chloro-3-methylphenol		350	U	59	350
2,4,6-Trichlorophenol		350	U	63	350
2,4,5-Trichlorophenol		350	U	68	350
2,4-Dinitrophenol		1100	U	75	1100
4-Nitrophenol		1100	U	90	1100
4,6-Dinitro-2-methylphenol		1100	U	170	1100
Pentachlorophenol		1100	U	170	1100
Bis(2-chloroethyl)ether		35	U	7.3	35
N-Nitrosodi-n-propylamine		35	U	4.6	35
Hexachloroethane		35	U	5.9	35
Nitrobenzene		35	U	7.9	35
Isophorone		350	U	40	350
Bis(2-chloroethoxy)methane		350	U	50	350
Naphthalene		350	U	51	350
4-Chloroaniline		350	U	44	350
Hexachlorobutadiene		71	U	14	71
2-Methylnaphthalene		350	U	51	350
Hexachlorocyclopentadiene		350	U	100	350
2-Chloronaphthalene		350	U	50	350
2-Nitroaniline		710	U	96	710
Dimethyl phthalate		350	U	48	350
Acenaphthylene		350	U	50	350
2,6-Dinitrotoluene		71	U	8.9	71
3-Nitroaniline		710	U	80	710
Acenaphthene		350	U	50	350
Dibenzofuran		350	U	53	350
2,4-Dinitrotoluene		71	U	10	71
Diethyl phthalate		350	U	47	350
4-Chlorophenyl phenyl ether		350	U	61	350
Fluorene		350	U	60	350
4-Nitroaniline		710	U	73	710
N-Nitrosodiphenylamine		350	U	57	350
4-Bromophenyl phenyl ether		350	U	63	350
Hexachlorobenzene		35	U	4.9	35
Phenanthrene		350	U	61	350
Anthracene		350	U	62	350
Carbazole		350	U	56	350
Di-n-butyl phthalate		350	U	54	350
Fluoranthene		350	U	59	350

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-N(6')**

Lab Sample ID: 220-10963-5 | Date Sampled: 12/09/2009 1220
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10696.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0230			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		350	U	61	350
Butyl benzyl phthalate		350	U	41	350
3,3'-Dichlorobenzidine		710	U	78	710
Benzo[a]anthracene		43		6.5	35
Chrysene		350	U	51	350
Bis(2-ethylhexyl) phthalate		76	J	47	350
Di-n-octyl phthalate		350	U	42	350
Benzo[b]fluoranthene		39		5.2	35
Benzo[k]fluoranthene		35	U	4.9	35
Benzo[a]pyrene		33	J	4.3	35
Indeno[1,2,3-cd]pyrene		35	U	5.6	35
Dibenz(a,h)anthracene		35	U	4.2	35
Benzo[g,h,i]perylene		350	U	37	350
1,1'-Biphenyl		350	U	58	350
Acetophenone		350	U	52	350
Benzaldehyde		350	U	22	350
Caprolactam		350	U	48	350
Atrazine		350	U	66	350
2,2'-oxybis[1-chloropropane]		350	U	46	350

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		38 - 105
Phenol-d5	64		41 - 118
Terphenyl-d14	72		16 - 151
2,4,6-Tribromophenol	31		10 - 120
2-Fluorophenol	73		37 - 125
2-Fluorobiphenyl	72		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-N(8')**

Lab Sample ID: 220-10963-6 | Date Sampled: 12/09/2009 1221
Client Matrix: Solid | % Moisture: 21.2 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10712.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0942			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		420	U	51	420
2-Chlorophenol		420	U	56	420
2-Methylphenol		420	U	60	420
4-Methylphenol		420	U	69	420
2-Nitrophenol		420	U	69	420
2,4-Dimethylphenol		420	U	67	420
2,4-Dichlorophenol		420	U	67	420
4-Chloro-3-methylphenol		420	U	70	420
2,4,6-Trichlorophenol		420	U	75	420
2,4,5-Trichlorophenol		420	U	81	420
2,4-Dinitrophenol		1300	U	89	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	200	1300
Pentachlorophenol		1300	U	210	1300
Bis(2-chloroethyl)ether		42	U	8.7	42
N-Nitrosodi-n-propylamine		42	U	5.5	42
Hexachloroethane		42	U	7.1	42
Nitrobenzene		42	U	9.4	42
Isophorone		420	U	48	420
Bis(2-chloroethoxy)methane		420	U	60	420
Naphthalene		83	J	61	420
4-Chloroaniline		420	U	53	420
Hexachlorobutadiene		85	U	17	85
2-Methylnaphthalene		120	J	61	420
Hexachlorocyclopentadiene		420	U	120	420
2-Chloronaphthalene		420	U	59	420
2-Nitroaniline		850	U	110	850
Dimethyl phthalate		420	U	57	420
Acenaphthylene		420	U	60	420
2,6-Dinitrotoluene		85	U	11	85
3-Nitroaniline		850	U	95	850
Acenaphthene		420	U	60	420
Dibenzofuran		420	U	63	420
2,4-Dinitrotoluene		85	U	12	85
Diethyl phthalate		420	U	56	420
4-Chlorophenyl phenyl ether		420	U	72	420
Fluorene		420	U	71	420
4-Nitroaniline		850	U	87	850
N-Nitrosodiphenylamine		410	J	68	420
4-Bromophenyl phenyl ether		420	U	75	420
Hexachlorobenzene		42	U	5.8	42
Phenanthrene		370	J	73	420
Anthracene		420	U	74	420
Carbazole		420	U	67	420
Di-n-butyl phthalate		420	U	64	420
Fluoranthene		420		70	420

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-N(8')**

Lab Sample ID: 220-10963-6 | Date Sampled: 12/09/2009 1221
Client Matrix: Solid | % Moisture: 21.2 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10712.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0942			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		290	J	73	420
Butyl benzyl phthalate		420	U	49	420
3,3'-Dichlorobenzidine		850	U	93	850
Benzo[a]anthracene		330		7.8	42
Chrysene		540		61	420
Bis(2-ethylhexyl) phthalate		420	U	56	420
Di-n-octyl phthalate		420	U	50	420
Benzo[b]fluoranthene		42	U	6.2	42
Benzo[k]fluoranthene		42	U	5.9	42
Benzo[a]pyrene		42	U	5.2	42
Indeno[1,2,3-cd]pyrene		120		6.7	42
Dibenz(a,h)anthracene		42	U	5.0	42
Benzo[g,h,i]perylene		130	J	44	420
1,1'-Biphenyl		420	U	69	420
Acetophenone		420	U	62	420
Benzaldehyde		420	U	26	420
Caprolactam		420	U	58	420
Atrazine		420	U	78	420
2,2'-oxybis[1-chloropropane]		420	U	55	420

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		38 - 105
Phenol-d5	72		41 - 118
Terphenyl-d14	55		16 - 151
2,4,6-Tribromophenol	64		10 - 120
2-Fluorophenol	76		37 - 125
2-Fluorobiphenyl	78		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-20-W(5')**

Lab Sample ID: 220-10963-7 | Date Sampled: 12/09/2009 1225
Client Matrix: Solid | % Moisture: 23.9 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10713.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1009			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		430	U	53	430
2-Chlorophenol		430	U	58	430
2-Methylphenol		430	U	63	430
4-Methylphenol		430	U	71	430
2-Nitrophenol		430	U	71	430
2,4-Dimethylphenol		430	U	70	430
2,4-Dichlorophenol		430	U	70	430
4-Chloro-3-methylphenol		430	U	73	430
2,4,6-Trichlorophenol		430	U	78	430
2,4,5-Trichlorophenol		430	U	84	430
2,4-Dinitrophenol		1300	U	92	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	210	1300
Pentachlorophenol		1300	U	210	1300
Bis(2-chloroethyl)ether		43	U	9.0	43
N-Nitrosodi-n-propylamine		43	U	5.7	43
Hexachloroethane		43	U	7.3	43
Nitrobenzene		43	U	9.7	43
Isophorone		430	U	50	430
Bis(2-chloroethoxy)methane		430	U	62	430
Naphthalene		87	J	64	430
4-Chloroaniline		430	U	55	430
Hexachlorobutadiene		88	U	18	88
2-Methylnaphthalene		220	J	63	430
Hexachlorocyclopentadiene		430	U	130	430
2-Chloronaphthalene		430	U	61	430
2-Nitroaniline		880	U	120	880
Dimethyl phthalate		430	U	59	430
Acenaphthylene		430	U	62	430
2,6-Dinitrotoluene		88	U	11	88
3-Nitroaniline		880	U	98	880
Acenaphthene		430	U	62	430
Dibenzofuran		430	U	65	430
2,4-Dinitrotoluene		88	U	13	88
Diethyl phthalate		430	U	58	430
4-Chlorophenyl phenyl ether		430	U	75	430
Fluorene		430	U	74	430
4-Nitroaniline		880	U	90	880
N-Nitrosodiphenylamine		430	U	71	430
4-Bromophenyl phenyl ether		430	U	77	430
Hexachlorobenzene		43	U	6.0	43
Phenanthrene		180	J	76	430
Anthracene		430	U	77	430
Carbazole		430	U	69	430
Di-n-butyl phthalate		430	U	66	430
Fluoranthene		300	J	72	430

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-20-W(5')**

Lab Sample ID: 220-10963-7

Client Matrix: Solid

% Moisture: 23.9

Date Sampled: 12/09/2009 1225

Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10713.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1009			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		250	J	75	430
Butyl benzyl phthalate		430	U	51	430
3,3'-Dichlorobenzidine		880	U	96	880
Benzo[a]anthracene		220		8.0	43
Chrysene		270	J	63	430
Bis(2-ethylhexyl) phthalate		450		58	430
Di-n-octyl phthalate		430	U	52	430
Benzo[b]fluoranthene		200		6.5	43
Benzo[k]fluoranthene		77		6.1	43
Benzo[a]pyrene		170		5.3	43
Indeno[1,2,3-cd]pyrene		160		6.9	43
Dibenz(a,h)anthracene		64		5.2	43
Benzo[g,h,i]perylene		180	J	46	430
1,1'-Biphenyl		430	U	72	430
Acetophenone		430	U	64	430
Benzaldehyde		430	U	27	430
Caprolactam		430	U	60	430
Atrazine		430	U	81	430
2,2'-oxybis[1-chloropropane]		430	U	57	430

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	70		38 - 105
Phenol-d5	63		41 - 118
Terphenyl-d14	64		16 - 151
2,4,6-Tribromophenol	37		10 - 120
2-Fluorophenol	69		37 - 125
2-Fluorobiphenyl	78		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-20-W(7')**

Lab Sample ID: 220-10963-8 | Date Sampled: 12/09/2009 1226
Client Matrix: Solid | % Moisture: 30.0 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10710.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0849			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		470	U	58	470
2-Chlorophenol		470	U	63	470
2-Methylphenol		470	U	68	470
4-Methylphenol		470	U	77	470
2-Nitrophenol		470	U	78	470
2,4-Dimethylphenol		470	U	76	470
2,4-Dichlorophenol		470	U	76	470
4-Chloro-3-methylphenol		470	U	79	470
2,4,6-Trichlorophenol		470	U	84	470
2,4,5-Trichlorophenol		470	U	91	470
2,4-Dinitrophenol		1400	U	100	1400
4-Nitrophenol		1400	U	120	1400
4,6-Dinitro-2-methylphenol		1400	U	230	1400
Pentachlorophenol		1400	U	230	1400
Bis(2-chloroethyl)ether		47	U	9.8	47
N-Nitrosodi-n-propylamine		47	U	6.2	47
Hexachloroethane		47	U	8.0	47
Nitrobenzene		47	U	11	47
Isophorone		470	U	54	470
Bis(2-chloroethoxy)methane		470	U	67	470
Naphthalene		470	U	69	470
4-Chloroaniline		470	U	59	470
Hexachlorobutadiene		96	U	19	96
2-Methylnaphthalene		80	J	69	470
Hexachlorocyclopentadiene		470	U	140	470
2-Chloronaphthalene		470	U	67	470
2-Nitroaniline		960	U	130	960
Dimethyl phthalate		470	U	64	470
Acenaphthylene		470	U	67	470
2,6-Dinitrotoluene		96	U	12	96
3-Nitroaniline		960	U	110	960
Acenaphthene		470	U	67	470
Dibenzofuran		470	U	71	470
2,4-Dinitrotoluene		96	U	14	96
Diethyl phthalate		470	U	63	470
4-Chlorophenyl phenyl ether		470	U	81	470
Fluorene		470	U	80	470
4-Nitroaniline		960	U	97	960
N-Nitrosodiphenylamine		470	U	77	470
4-Bromophenyl phenyl ether		470	U	84	470
Hexachlorobenzene		47	U	6.5	47
Phenanthrene		180	J	82	470
Anthracene		470	U	83	470
Carbazole		470	U	75	470
Di-n-butyl phthalate		470	U	72	470
Fluoranthene		200	J	78	470

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-20-W(7')**

Lab Sample ID: 220-10963-8
Client Matrix: Solid
% Moisture: 30.0

Date Sampled: 12/09/2009 1226
Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10710.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0849			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		150	J	82	470
Butyl benzyl phthalate		470	U	55	470
3,3'-Dichlorobenzidine		960	U	100	960
Benzo[a]anthracene		100		8.7	47
Chrysene		200	J	69	470
Bis(2-ethylhexyl) phthalate		470	U	63	470
Di-n-octyl phthalate		470	U	56	470
Benzo[b]fluoranthene		120		7.0	47
Benzo[k]fluoranthene		38	J	6.6	47
Benzo[a]pyrene		41	J	5.8	47
Indeno[1,2,3-cd]pyrene		70		7.5	47
Dibenz(a,h)anthracene		47	U	5.7	47
Benzo[g,h,i]perylene		71	J	50	470
1,1'-Biphenyl		470	U	78	470
Acetophenone		470	U	70	470
Benzaldehyde		470	U	30	470
Caprolactam		470	U	65	470
Atrazine		470	U	88	470
2,2'-oxybis[1-chloropropane]		470	U	62	470

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		38 - 105
Phenol-d5	66		41 - 118
Terphenyl-d14	69		16 - 151
2,4,6-Tribromophenol	44		10 - 120
2-Fluorophenol	72		37 - 125
2-Fluorobiphenyl	79		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-2-W(5')**

Lab Sample ID: 220-10963-9 | Date Sampled: 12/09/2009 1245
Client Matrix: Solid | % Moisture: 12.1 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10711.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0915			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		370	U	46	370
2-Chlorophenol		370	U	50	370
2-Methylphenol		370	U	54	370
4-Methylphenol		370	U	62	370
2-Nitrophenol		370	U	62	370
2,4-Dimethylphenol		370	U	60	370
2,4-Dichlorophenol		370	U	60	370
4-Chloro-3-methylphenol		370	U	63	370
2,4,6-Trichlorophenol		370	U	67	370
2,4,5-Trichlorophenol		370	U	72	370
2,4-Dinitrophenol		1100	U	80	1100
4-Nitrophenol		1100	U	97	1100
4,6-Dinitro-2-methylphenol		1100	U	180	1100
Pentachlorophenol		1100	U	180	1100
Bis(2-chloroethyl)ether		37	U	7.8	37
N-Nitrosodi-n-propylamine		37	U	5.0	37
Hexachloroethane		37	U	6.3	37
Nitrobenzene		37	U	8.4	37
Isophorone		370	U	43	370
Bis(2-chloroethoxy)methane		370	U	54	370
Naphthalene		370	U	55	370
4-Chloroaniline		370	U	47	370
Hexachlorobutadiene		76	U	15	76
2-Methylnaphthalene		370	U	55	370
Hexachlorocyclopentadiene		370	U	110	370
2-Chloronaphthalene		370	U	53	370
2-Nitroaniline		760	U	100	760
Dimethyl phthalate		370	U	51	370
Acenaphthylene		370	U	54	370
2,6-Dinitrotoluene		76	U	9.5	76
3-Nitroaniline		760	U	85	760
Acenaphthene		370	U	53	370
Dibenzofuran		370	U	56	370
2,4-Dinitrotoluene		76	U	11	76
Diethyl phthalate		370	U	50	370
4-Chlorophenyl phenyl ether		370	U	65	370
Fluorene		370	U	64	370
4-Nitroaniline		760	U	78	760
N-Nitrosodiphenylamine		370	U	61	370
4-Bromophenyl phenyl ether		370	U	67	370
Hexachlorobenzene		37	U	5.2	37
Phenanthrene		90	J	66	370
Anthracene		370	U	66	370
Carbazole		370	U	60	370
Di-n-butyl phthalate		370	U	57	370
Fluoranthene		100	J	62	370

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-2-W(5')**

Lab Sample ID: 220-10963-9 | Date Sampled: 12/09/2009 1245
Client Matrix: Solid | % Moisture: 12.1 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10711.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0915			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		72	J	65	370
Butyl benzyl phthalate		370	U	44	370
3,3'-Dichlorobenzidine		760	U	83	760
Benzo[a]anthracene		37	U	6.9	37
Chrysene		370	U	55	370
Bis(2-ethylhexyl) phthalate		370	U	50	370
Di-n-octyl phthalate		370	U	45	370
Benzo[b]fluoranthene		37	U	5.6	37
Benzo[k]fluoranthene		37	U	5.3	37
Benzo[a]pyrene		37	U	4.6	37
Indeno[1,2,3-cd]pyrene		37	U	6.0	37
Dibenz(a,h)anthracene		37	U	4.5	37
Benzo[g,h,i]perylene		370	U	40	370
1,1'-Biphenyl		370	U	62	370
Acetophenone		370	U	56	370
Benzaldehyde		370	U	24	370
Caprolactam		370	U	52	370
Atrazine		370	U	70	370
2,2'-oxybis[1-chloropropane]		370	U	49	370

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		38 - 105
Phenol-d5	69		41 - 118
Terphenyl-d14	64		16 - 151
2,4,6-Tribromophenol	28		10 - 120
2-Fluorophenol	78		37 - 125
2-Fluorobiphenyl	77		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-2-W(9')**

Lab Sample ID: 220-10963-10 | Date Sampled: 12/09/2009 1247
Client Matrix: Solid | % Moisture: 27.9 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10697.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0257			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		460	U	56	460
2-Chlorophenol		460	U	61	460
2-Methylphenol		460	U	66	460
4-Methylphenol		460	U	75	460
2-Nitrophenol		460	U	75	460
2,4-Dimethylphenol		460	U	73	460
2,4-Dichlorophenol		460	U	73	460
4-Chloro-3-methylphenol		460	U	77	460
2,4,6-Trichlorophenol		460	U	82	460
2,4,5-Trichlorophenol		460	U	88	460
2,4-Dinitrophenol		1400	U	97	1400
4-Nitrophenol		1400	U	120	1400
4,6-Dinitro-2-methylphenol		1400	U	220	1400
Pentachlorophenol		1400	U	220	1400
Bis(2-chloroethyl)ether		46	U	9.5	46
N-Nitrosodi-n-propylamine		46	U	6.1	46
Hexachloroethane		46	U	7.7	46
Nitrobenzene		46	U	10	46
Isophorone		460	U	53	460
Bis(2-chloroethoxy)methane		460	U	65	460
Naphthalene		140	J	67	460
4-Chloroaniline		460	U	58	460
Hexachlorobutadiene		93	U	19	93
2-Methylnaphthalene		290	J	67	460
Hexachlorocyclopentadiene		460	U	130	460
2-Chloronaphthalene		460	U	65	460
2-Nitroaniline		930	U	130	930
Dimethyl phthalate		460	U	62	460
Acenaphthylene		460	U	66	460
2,6-Dinitrotoluene		93	U	12	93
3-Nitroaniline		930	U	100	930
Acenaphthene		210	J	65	460
Dibenzofuran		460	U	69	460
2,4-Dinitrotoluene		93	U	13	93
Diethyl phthalate		460	U	61	460
4-Chlorophenyl phenyl ether		460	U	79	460
Fluorene		460	U	78	460
4-Nitroaniline		930	U	95	930
N-Nitrosodiphenylamine		460	U	75	460
4-Bromophenyl phenyl ether		460	U	82	460
Hexachlorobenzene		46	U	6.4	46
Phenanthrene		160	J	80	460
Anthracene		460	U	81	460
Carbazole		460	U	73	460
Di-n-butyl phthalate		460	U	70	460
Fluoranthene		460	U	76	460

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-2-W(9')**

Lab Sample ID: 220-10963-10 | Date Sampled: 12/09/2009 1247
Client Matrix: Solid | % Moisture: 27.9 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10697.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0257			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		180	J	79	460
Butyl benzyl phthalate		460	U	53	460
3,3'-Dichlorobenzidine		930	U	100	930
Benzo[a]anthracene		46	U	8.5	46
Chrysene		460	U	67	460
Bis(2-ethylhexyl) phthalate		460	U	61	460
Di-n-octyl phthalate		460	U	54	460
Benzo[b]fluoranthene		42	J	6.8	46
Benzo[k]fluoranthene		46	U	6.4	46
Benzo[a]pyrene		19	J	5.6	46
Indeno[1,2,3-cd]pyrene		46	U	7.3	46
Dibenz(a,h)anthracene		46	U	5.5	46
Benzo[g,h,i]perylene		460	U	48	460
1,1'-Biphenyl		91	J	75	460
Acetophenone		460	U	68	460
Benzaldehyde		460	U	29	460
Caprolactam		460	U	63	460
Atrazine		460	U	85	460
2,2'-oxybis[1-chloropropane]		460	U	60	460

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		38 - 105
Phenol-d5	70		41 - 118
Terphenyl-d14	68		16 - 151
2,4,6-Tribromophenol	77		10 - 120
2-Fluorophenol	78		37 - 125
2-Fluorobiphenyl	75		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-S(6')**

Lab Sample ID: 220-10963-11 | Date Sampled: 12/09/2009 1255
Client Matrix: Solid | % Moisture: 12.0 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10698.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 0324			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		370	U	46	370
2-Chlorophenol		370	U	50	370
2-Methylphenol		370	U	54	370
4-Methylphenol		370	U	62	370
2-Nitrophenol		370	U	62	370
2,4-Dimethylphenol		370	U	60	370
2,4-Dichlorophenol		370	U	60	370
4-Chloro-3-methylphenol		370	U	63	370
2,4,6-Trichlorophenol		370	U	67	370
2,4,5-Trichlorophenol		370	U	72	370
2,4-Dinitrophenol		1100	U	80	1100
4-Nitrophenol		1100	U	97	1100
4,6-Dinitro-2-methylphenol		1100	U	180	1100
Pentachlorophenol		1100	U	180	1100
Bis(2-chloroethyl)ether		37	U	7.8	37
N-Nitrosodi-n-propylamine		37	U	5.0	37
Hexachloroethane		37	U	6.3	37
Nitrobenzene		37	U	8.4	37
Isophorone		370	U	43	370
Bis(2-chloroethoxy)methane		370	U	54	370
Naphthalene		370	U	55	370
4-Chloroaniline		370	U	47	370
Hexachlorobutadiene		76	U	15	76
2-Methylnaphthalene		370	U	55	370
Hexachlorocyclopentadiene		370	U	110	370
2-Chloronaphthalene		370	U	53	370
2-Nitroaniline		760	U	100	760
Dimethyl phthalate		370	U	51	370
Acenaphthylene		370	U	54	370
2,6-Dinitrotoluene		76	U	9.5	76
3-Nitroaniline		760	U	85	760
Acenaphthene		370	U	53	370
Dibenzofuran		370	U	56	370
2,4-Dinitrotoluene		76	U	11	76
Diethyl phthalate		370	U	50	370
4-Chlorophenyl phenyl ether		370	U	65	370
Fluorene		370	U	64	370
4-Nitroaniline		760	U	78	760
N-Nitrosodiphenylamine		370	U	61	370
4-Bromophenyl phenyl ether		370	U	67	370
Hexachlorobenzene		37	U	5.2	37
Phenanthrene		370	U	66	370
Anthracene		370	U	66	370
Carbazole		370	U	60	370
Di-n-butyl phthalate		370	U	57	370
Fluoranthene		370	U	62	370

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-S(6')**

Lab Sample ID: 220-10963-11 Date Sampled: 12/09/2009 1255
Client Matrix: Solid % Moisture: 12.0 Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10698.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 0324			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		370	U	65	370
Butyl benzyl phthalate		370	U	44	370
3,3'-Dichlorobenzidine		760	U	83	760
Benzo[a]anthracene		37	U	6.9	37
Chrysene		370	U	55	370
Bis(2-ethylhexyl) phthalate		370	U	50	370
Di-n-octyl phthalate		370	U	45	370
Benzo[b]fluoranthene		37	U	5.6	37
Benzo[k]fluoranthene		37	U	5.3	37
Benzo[a]pyrene		37	U	4.6	37
Indeno[1,2,3-cd]pyrene		37	U	6.0	37
Dibenz(a,h)anthracene		37	U	4.5	37
Benzo[g,h,i]perylene		370	U	40	370
1,1'-Biphenyl		370	U	62	370
Acetophenone		370	U	56	370
Benzaldehyde		370	U	24	370
Caprolactam		370	U	52	370
Atrazine		370	U	70	370
2,2'-oxybis[1-chloropropane]		370	U	49	370

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		38 - 105
Phenol-d5	65		41 - 118
Terphenyl-d14	74		16 - 151
2,4,6-Tribromophenol	39		10 - 120
2-Fluorophenol	74		37 - 125
2-Fluorobiphenyl	72		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-S(9')**

Lab Sample ID: 220-10963-12
Client Matrix: Solid
% Moisture: 22.7

Date Sampled: 12/09/2009 1256
Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25356		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	u56800.d
Dilution:	2.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 1014			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		850	U	100	850
2-Chlorophenol		850	U	110	850
2-Methylphenol		850	U	120	850
4-Methylphenol		850	U	140	850
2-Nitrophenol		850	U	140	850
2,4-Dimethylphenol		850	U	140	850
2,4-Dichlorophenol		850	U	140	850
4-Chloro-3-methylphenol		850	U	140	850
2,4,6-Trichlorophenol		850	U	150	850
2,4,5-Trichlorophenol		850	U	160	850
2,4-Dinitrophenol		2600	U	180	2600
4-Nitrophenol		2600	U	220	2600
4,6-Dinitro-2-methylphenol		2600	U	410	2600
Pentachlorophenol		2600	U	420	2600
Bis(2-chloroethyl)ether		85	U	18	85
N-Nitrosodi-n-propylamine		85	U	11	85
Hexachloroethane		85	U	14	85
Nitrobenzene		85	U	19	85
Isophorone		850	U	98	850
Bis(2-chloroethoxy)methane		850	U	120	850
Naphthalene		230	J	130	850
4-Chloroaniline		850	U	110	850
Hexachlorobutadiene		170	U	35	170
2-Methylnaphthalene		850	U	130	850
Hexachlorocyclopentadiene		850	U	250	850
2-Chloronaphthalene		850	U	120	850
2-Nitroaniline		1700	U	230	1700
Dimethyl phthalate		850	U	120	850
Acenaphthylene		850	U	120	850
2,6-Dinitrotoluene		170	U	22	170
3-Nitroaniline		1700	U	190	1700
Acenaphthene		610	J	120	850
Dibenzofuran		850	U	130	850
2,4-Dinitrotoluene		170	U	25	170
Diethyl phthalate		850	U	110	850
4-Chlorophenyl phenyl ether		850	U	150	850
Fluorene		850	U	140	850
4-Nitroaniline		1700	U	180	1700
N-Nitrosodiphenylamine		850	U	140	850
4-Bromophenyl phenyl ether		850	U	150	850
Hexachlorobenzene		85	U	12	85
Phenanthrene		1400		150	850
Anthracene		790	J	150	850
Carbazole		850	U	140	850
Di-n-butyl phthalate		850	U	130	850
Fluoranthene		3700		140	850

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-S(9')**

Lab Sample ID: 220-10963-12 | Date Sampled: 12/09/2009 1256
Client Matrix: Solid | % Moisture: 22.7 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25356		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	u56800.d
Dilution:	2.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 1014			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		3900		150	850
Butyl benzyl phthalate		850	U	100	850
3,3'-Dichlorobenzidine		1700	U	190	1700
Benzo[a]anthracene		1400		16	85
Chrysene		1900		120	850
Bis(2-ethylhexyl) phthalate		350	J	110	850
Di-n-octyl phthalate		850	U	100	850
Benzo[b]fluoranthene		1300		13	85
Benzo[k]fluoranthene		540		12	85
Benzo[a]pyrene		750		11	85
Indeno[1,2,3-cd]pyrene		400		14	85
Dibenz(a,h)anthracene		140		10	85
Benzo[g,h,i]perylene		400	J	90	850
1,1'-Biphenyl		850	U	140	850
Acetophenone		850	U	130	850
Benzaldehyde		850	U	54	850
Caprolactam		850	U	120	850
Atrazine		850	U	160	850
2,2'-oxybis[1-chloropropane]		850	U	110	850

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		38 - 105
Phenol-d5	61		41 - 118
Terphenyl-d14	67		16 - 151
2,4,6-Tribromophenol	55		10 - 120
2-Fluorophenol	60		37 - 125
2-Fluorobiphenyl	63		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-S(8')**

Lab Sample ID: 220-10963-13 | Date Sampled: 12/09/2009 1310
Client Matrix: Solid | % Moisture: 17.2 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10709.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0822			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		400	U	49	400
2-Chlorophenol		400	U	53	400
2-Methylphenol		400	U	57	400
4-Methylphenol		400	U	65	400
2-Nitrophenol		400	U	66	400
2,4-Dimethylphenol		400	U	64	400
2,4-Dichlorophenol		400	U	64	400
4-Chloro-3-methylphenol		400	U	67	400
2,4,6-Trichlorophenol		400	U	71	400
2,4,5-Trichlorophenol		400	U	77	400
2,4-Dinitrophenol		1200	U	85	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		40	U	8.3	40
N-Nitrosodi-n-propylamine		40	U	5.3	40
Hexachloroethane		40	U	6.7	40
Nitrobenzene		40	U	8.9	40
Isophorone		400	U	46	400
Bis(2-chloroethoxy)methane		400	U	57	400
Naphthalene		400	U	58	400
4-Chloroaniline		400	U	50	400
Hexachlorobutadiene		81	U	16	81
2-Methylnaphthalene		110	J	58	400
Hexachlorocyclopentadiene		400	U	120	400
2-Chloronaphthalene		400	U	56	400
2-Nitroaniline		810	U	110	810
Dimethyl phthalate		400	U	54	400
Acenaphthylene		400	U	57	400
2,6-Dinitrotoluene		81	U	10	81
3-Nitroaniline		810	U	90	810
Acenaphthene		400	U	57	400
Dibenzofuran		400	U	60	400
2,4-Dinitrotoluene		81	U	12	81
Diethyl phthalate		400	U	54	400
4-Chlorophenyl phenyl ether		400	U	69	400
Fluorene		400	U	68	400
4-Nitroaniline		810	U	82	810
N-Nitrosodiphenylamine		400	U	65	400
4-Bromophenyl phenyl ether		400	U	71	400
Hexachlorobenzene		40	U	5.5	40
Phenanthrene		440		70	400
Anthracene		120	J	70	400
Carbazole		400	U	63	400
Di-n-butyl phthalate		400	U	61	400
Fluoranthene		770		66	400

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-S(8')**

Lab Sample ID: 220-10963-13 | Date Sampled: 12/09/2009 1310
Client Matrix: Solid | % Moisture: 17.2 | Date Received: 12/09/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25254		Lab File ID:	p10709.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0822			Final Weight/Volume:	1 mL
Date Prepared:	12/11/2009 2354			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		640		69	400
Butyl benzyl phthalate		400	U	47	400
3,3'-Dichlorobenzidine		810	U	88	810
Benzo[a]anthracene		400		7.4	40
Chrysene		470		58	400
Bis(2-ethylhexyl) phthalate		240	J	53	400
Di-n-octyl phthalate		400	U	47	400
Benzo[b]fluoranthene		360		5.9	40
Benzo[k]fluoranthene		130		5.6	40
Benzo[a]pyrene		270		4.9	40
Indeno[1,2,3-cd]pyrene		180		6.4	40
Dibenz(a,h)anthracene		46		4.8	40
Benzo[g,h,i]perylene		170	J	42	400
1,1'-Biphenyl		400	U	66	400
Acetophenone		400	U	59	400
Benzaldehyde		400	U	25	400
Caprolactam		400	U	55	400
Atrazine		400	U	74	400
2,2'-oxybis[1-chloropropane]		400	U	52	400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		38 - 105
Phenol-d5	70		41 - 118
Terphenyl-d14	70		16 - 151
2,4,6-Tribromophenol	24		10 - 120
2-Fluorophenol	74		37 - 125
2-Fluorobiphenyl	76		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-E(8')**

Lab Sample ID: 220-10963-1
Client Matrix: Solid
% Moisture: 14.2

Date Sampled: 12/09/2009 1150
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/11/2009 1307
Date Prepared: 12/10/2009 0757

Analysis Batch: 220-34217
Prep Batch: 220-34117

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.15 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.12	J	0.10	0.51
Aluminum		7940		5.1	25.3
Arsenic		25.5		0.10	0.51
Barium		82.4		0.15	0.51
Beryllium		0.43	J	0.15	0.51
Calcium		60000		15.2	50.7
Cadmium		0.30	J	0.10	0.51
Cobalt		4.7		0.10	0.51
Chromium		21.8		0.20	1.0
Copper		284		0.10	1.0
Iron		23000		8.1	25.3
Potassium		1110		5.1	50.7
Magnesium		5710		5.1	50.7
Manganese		266		0.20	1.3
Sodium		748		16.7	50.7
Nickel		25.1		0.10	0.51
Lead		55.7		0.10	0.51
Antimony		0.68	J	0.20	0.81
Selenium		2.9		0.30	1.0
Thallium		0.34	J	0.20	0.71
Vanadium		21.0		0.10	0.51
Zinc		109		0.51	5.1

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/11/2009 1656
Date Prepared: 12/10/2009 0904

Analysis Batch: 220-34216
Prep Batch: 220-34122

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.62 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.92		0.0045	0.056

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-E(8')**

Lab Sample ID: 220-10963-2
Client Matrix: Solid
% Moisture: 22.7

Date Sampled: 12/09/2009 1200
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34217		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34117		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.34 g
Date Analyzed:	12/11/2009 1325			Final Weight/Volume:	1000 mL
Date Prepared:	12/10/2009 0757				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.48	U	0.097	0.48
Aluminum		3480		4.8	24.1
Arsenic		38.2		0.097	0.48
Barium		37.7		0.14	0.48
Beryllium		0.29	J	0.14	0.48
Calcium		5850		14.5	48.3
Cadmium		0.16	J	0.097	0.48
Cobalt		2.7		0.097	0.48
Chromium		13.5		0.19	0.97
Copper		28.6		0.097	0.97
Iron		12700		7.7	24.1
Potassium		457		4.8	48.3
Magnesium		1300		4.8	48.3
Manganese		104		0.19	1.2
Sodium		455		15.9	48.3
Nickel		17.6		0.097	0.48
Lead		71.4		0.097	0.48
Antimony		0.33	J	0.19	0.77
Selenium		1.0		0.29	0.97
Thallium		0.30	J	0.19	0.68
Vanadium		9.0		0.097	0.48
Zinc		62.2		0.48	4.8

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	12/11/2009 1702			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.52		0.0049	0.062

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-N(6')**

Lab Sample ID: 220-10963-3
Client Matrix: Solid
% Moisture: 12.0

Date Sampled: 12/09/2009 1210
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/11/2009 1328
Date Prepared: 12/10/2009 0757

Analysis Batch: 220-34217
Prep Batch: 220-34117

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.06 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.54	U	0.11	0.54
Aluminum		3900		5.4	26.8
Arsenic		199		0.11	0.54
Barium		67.2		0.16	0.54
Beryllium		0.52	J	0.16	0.54
Calcium		12800		16.1	53.6
Cadmium		0.58		0.11	0.54
Cobalt		6.1		0.11	0.54
Chromium		14.3		0.21	1.1
Copper		43.6		0.11	1.1
Iron		34900		8.6	26.8
Potassium		1220		5.4	53.6
Magnesium		1510		5.4	53.6
Manganese		231		0.21	1.3
Sodium		615		17.7	53.6
Nickel		23.3		0.11	0.54
Lead		73.8		0.11	0.54
Antimony		0.97		0.21	0.86
Selenium		2.3		0.32	1.1
Thallium		3.7		0.21	0.75
Vanadium		14.3		0.11	0.54
Zinc		98.7		0.54	5.4

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/11/2009 1703
Date Prepared: 12/10/2009 0904

Analysis Batch: 220-34216
Prep Batch: 220-34122

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.5		0.0043	0.054

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-N(9')**

Lab Sample ID: 220-10963-4
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 12/09/2009 1212
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34217	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34117	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.24 g
Date Analyzed:	12/11/2009 1552		Final Weight/Volume: 1000 mL
Date Prepared:	12/10/2009 0757		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.45	J	0.095	0.47

Method:	6020	Analysis Batch: 220-34217	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34117	Lab File ID: N/A
Dilution:	2.0		Initial Weight/Volume: 1.24 g
Date Analyzed:	12/11/2009 1608		Final Weight/Volume: 1000 mL
Date Prepared:	12/10/2009 0757		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6530		9.5	47.4
Arsenic		176		0.19	0.95
Barium		276		0.28	0.95
Beryllium		1.1		0.28	0.95
Calcium		17300		28.4	94.7
Cadmium		2.1		0.19	0.95
Cobalt		30.6		0.19	0.95
Chromium		45.5		0.38	1.9
Copper		291		0.19	1.9
Potassium		404		9.5	94.7
Magnesium		5250		9.5	94.7
Manganese		849		0.38	2.4
Sodium		560		31.3	94.7
Nickel		88.8		0.19	0.95
Lead		857		0.19	0.95
Antimony		3.0		0.38	1.5
Selenium		3.9		0.57	1.9
Thallium		3.0		0.38	1.3
Vanadium		51.2		0.19	0.95
Zinc		554		0.95	9.5

Method:	6020	Analysis Batch: 220-34217	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34117	Lab File ID: N/A
Dilution:	10		Initial Weight/Volume: 1.24 g
Date Analyzed:	12/11/2009 1500		Final Weight/Volume: 1000 mL
Date Prepared:	12/10/2009 0757		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		259000		75.8	237

7471A Mercury (CVAA)

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-N(9')**

Lab Sample ID: 220-10963-4
Client Matrix: Solid

% Moisture: 14.9

Date Sampled: 12/09/2009 1212
Date Received: 12/09/2009 1830

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	12/11/2009 1704			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.2		0.0045	0.057

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-N(6')**

Lab Sample ID: 220-10963-5
Client Matrix: Solid
% Moisture: 6.0

Date Sampled: 12/09/2009 1220
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/11/2009 1350
Date Prepared: 12/10/2009 0757

Analysis Batch: 220-34217
Prep Batch: 220-34117

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.19 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.45	U	0.089	0.45
Aluminum		1690		4.5	22.4
Arsenic		8.7		0.089	0.45
Barium		14.4		0.13	0.45
Beryllium		0.45	U	0.13	0.45
Calcium		4490		13.4	44.7
Cadmium		0.12	J	0.089	0.45
Cobalt		1.4		0.089	0.45
Chromium		7.8		0.18	0.89
Copper		10.1		0.089	0.89
Iron		5750		7.2	22.4
Potassium		398		4.5	44.7
Magnesium		1010		4.5	44.7
Manganese		79.5		0.18	1.1
Sodium		78.2		14.8	44.7
Nickel		9.4		0.089	0.45
Lead		28.4		0.089	0.45
Antimony		0.72	U	0.18	0.72
Selenium		0.56	J	0.27	0.89
Thallium		0.63	U	0.18	0.63
Vanadium		5.4		0.089	0.45
Zinc		42.6		0.45	4.5

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/11/2009 1706
Date Prepared: 12/10/2009 0904

Analysis Batch: 220-34216
Prep Batch: 220-34122

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.049	J	0.0041	0.051

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-N(8')**

Lab Sample ID: 220-10963-6 | Date Sampled: 12/09/2009 1221
Client Matrix: Solid | % Moisture: 21.2 | Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34217		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34117		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.23 g
Date Analyzed:	12/11/2009 1556			Final Weight/Volume:	1000 mL
Date Prepared:	12/10/2009 0757				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.21	J	0.10	0.52
Aluminum		2940		5.2	25.8
Arsenic		171		0.10	0.52
Barium		95.3		0.15	0.52
Beryllium		1.2		0.15	0.52
Calcium		9320		15.5	51.6
Cadmium		1.2		0.10	0.52
Cobalt		14.5		0.10	0.52
Chromium		32.4		0.21	1.0
Copper		168		0.10	1.0
Potassium		380		5.2	51.6
Magnesium		2340		5.2	51.6
Manganese		326		0.21	1.3
Sodium		258		17.0	51.6
Nickel		53.4		0.10	0.52
Lead		560		0.10	0.52
Antimony		4.1		0.21	0.83
Selenium		6.2		0.31	1.0
Thallium		2.4		0.21	0.72
Vanadium		20.1		0.10	0.52
Zinc		313		0.52	5.2

Method:	6020	Analysis Batch: 220-34217		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34117		Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.23 g
Date Analyzed:	12/11/2009 1509			Final Weight/Volume:	1000 mL
Date Prepared:	12/10/2009 0757				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		82200		82.5	258

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	12/11/2009 1707			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.4		0.0048	0.059

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-20-W(5')**

Lab Sample ID: 220-10963-7
Client Matrix: Solid
% Moisture: 23.9

Date Sampled: 12/09/2009 1225
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/11/2009 1559
Date Prepared: 12/10/2009 0757

Analysis Batch: 220-34217
Prep Batch: 220-34117

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.26 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.28	J	0.10	0.52
Aluminum		7010		5.2	26.1
Arsenic		172		0.10	0.52
Barium		199		0.16	0.52
Beryllium		0.82		0.16	0.52
Calcium		28300		15.6	52.2
Cadmium		1.8		0.10	0.52
Cobalt		8.1		0.10	0.52
Chromium		33.2		0.21	1.0
Copper		149		0.10	1.0
Iron		39300		8.3	26.1
Potassium		1100		5.2	52.2
Magnesium		6330		5.2	52.2
Manganese		307		0.21	1.3
Sodium		567		17.2	52.2
Nickel		43.7		0.10	0.52
Lead		479		0.10	0.52
Antimony		2.3		0.21	0.83
Selenium		3.5		0.31	1.0
Thallium		1.6		0.21	0.73
Vanadium		31.7		0.10	0.52
Zinc		356		0.52	5.2

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 5.0
Date Analyzed: 12/11/2009 1804
Date Prepared: 12/10/2009 0904

Analysis Batch: 220-34216
Prep Batch: 220-34122

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.68 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.7		0.023	0.29

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-20-W(7')**

Lab Sample ID: 220-10963-8
Client Matrix: Solid
% Moisture: 30.0

Date Sampled: 12/09/2009 1226
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34217		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34117		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.34 g
Date Analyzed:	12/11/2009 1603			Final Weight/Volume:	1000 mL
Date Prepared:	12/10/2009 0757				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.30	J	0.11	0.53
Aluminum		6400		5.3	26.7
Arsenic		380		0.11	0.53
Barium		625		0.16	0.53
Beryllium		1.4		0.16	0.53
Calcium		39500		16.0	53.3
Cadmium		3.1		0.11	0.53
Cobalt		30.3		0.11	0.53
Chromium		77.8		0.21	1.1
Copper		191		0.11	1.1
Potassium		665		5.3	53.3
Magnesium		21600		5.3	53.3
Manganese		750		0.21	1.3
Sodium		559		17.6	53.3
Nickel		176		0.11	0.53
Lead		2070		0.11	0.53
Antimony		2.4		0.21	0.85
Selenium		10.4		0.32	1.1
Thallium		2.3		0.21	0.75
Vanadium		38.5		0.11	0.53
Zinc		886		0.53	5.3

Method:	6020	Analysis Batch: 220-34217		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34117		Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.34 g
Date Analyzed:	12/11/2009 1513			Final Weight/Volume:	1000 mL
Date Prepared:	12/10/2009 0757				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		156000		85.3	267

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	12/11/2009 1710			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.1		0.0053	0.066

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-2-W(5')**

Lab Sample ID: 220-10963-9 | Date Sampled: 12/09/2009 1245
Client Matrix: Solid | % Moisture: 12.1 | Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34217		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34117		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Date Analyzed:	12/11/2009 1520			Final Weight/Volume:	1000 mL
Date Prepared:	12/10/2009 0757				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.48	U	0.096	0.48
Aluminum		2420		4.8	23.9
Arsenic		45.2		0.096	0.48
Barium		36.4		0.14	0.48
Beryllium		0.17	J	0.14	0.48
Calcium		11400		14.3	47.8
Cadmium		0.68		0.096	0.48
Cobalt		2.1		0.096	0.48
Chromium		18.6		0.19	0.96
Copper		23.5		0.096	0.96
Iron		8440		7.6	23.9
Potassium		428		4.8	47.8
Magnesium		1970		4.8	47.8
Manganese		92.3		0.19	1.2
Sodium		152		15.8	47.8
Nickel		9.5		0.096	0.48
Lead		72.4		0.096	0.48
Antimony		0.21	J	0.19	0.76
Selenium		1.1		0.29	0.96
Thallium		0.32	J	0.19	0.67
Vanadium		9.7		0.096	0.48
Zinc		72.4		0.48	4.8

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	12/11/2009 1711			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.45		0.0043	0.053

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-2-W(9')**

Lab Sample ID: 220-10963-10
Client Matrix: Solid
% Moisture: 27.9
Date Sampled: 12/09/2009 1247
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34217		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34117		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Date Analyzed:	12/11/2009 1415			Final Weight/Volume:	1000 mL
Date Prepared:	12/10/2009 0757				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.15	J	0.12	0.60
Aluminum		13300		6.0	29.9
Arsenic		201		0.12	0.60
Barium		182		0.18	0.60
Beryllium		2.6		0.18	0.60
Calcium		60500		17.9	59.8
Cadmium		2.9		0.12	0.60
Cobalt		39.1		0.12	0.60
Chromium		15.9		0.24	1.2
Copper		97.0		0.12	1.2
Iron		37200		9.6	29.9
Potassium		469		6.0	59.8
Magnesium		20300		6.0	59.8
Manganese		710		0.24	1.5
Sodium		976		19.7	59.8
Nickel		151		0.12	0.60
Lead		92.4		0.12	0.60
Antimony		1.8		0.24	0.96
Selenium		8.8		0.36	1.2
Thallium		18.0		0.24	0.84
Vanadium		57.4		0.12	0.60
Zinc		645		0.60	6.0

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Date Analyzed:	12/11/2009 1712			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.29		0.0050	0.062

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-S(6')**

Lab Sample ID: 220-10963-11
Client Matrix: Solid
% Moisture: 12.0

Date Sampled: 12/09/2009 1255
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/11/2009 1419
Date Prepared: 12/10/2009 0757

Analysis Batch: 220-34217
Prep Batch: 220-34117

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.13 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.50	U	0.10	0.50
Aluminum		4180		5.0	25.1
Arsenic		2.8		0.10	0.50
Barium		22.9		0.15	0.50
Beryllium		0.20	J	0.15	0.50
Calcium		1200		15.1	50.3
Cadmium		0.50	U	0.10	0.50
Cobalt		3.3		0.10	0.50
Chromium		12.3		0.20	1.0
Copper		9.0		0.10	1.0
Iron		8090		8.0	25.1
Potassium		769		5.0	50.3
Magnesium		1260		5.0	50.3
Manganese		113		0.20	1.3
Sodium		75.1		16.6	50.3
Nickel		8.1		0.10	0.50
Lead		11.8		0.10	0.50
Antimony		0.80	U	0.20	0.80
Selenium		1.0	J	0.30	1.0
Thallium		0.70	U	0.20	0.70
Vanadium		14.4		0.10	0.50
Zinc		18.9		0.50	5.0

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/11/2009 1716
Date Prepared: 12/10/2009 0904

Analysis Batch: 220-34216
Prep Batch: 220-34122

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.012	J	0.0043	0.054

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10963-1

Client Sample ID: **PBL-7-10-S(9')**

Lab Sample ID: 220-10963-12 | Date Sampled: 12/09/2009 1256
Client Matrix: Solid | % Moisture: 22.7 | Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34217	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34117	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.18 g
Date Analyzed:	12/11/2009 1523		Final Weight/Volume: 1000 mL
Date Prepared:	12/10/2009 0757		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.13	J	0.11	0.55
Aluminum		6980		5.5	27.4
Arsenic		173		0.11	0.55
Barium		120		0.16	0.55
Beryllium		0.64		0.16	0.55
Calcium		40700		16.5	54.8
Cadmium		1.6		0.11	0.55
Cobalt		14.7		0.11	0.55
Chromium		31.1		0.22	1.1
Copper		137		0.11	1.1
Potassium		489		5.5	54.8
Magnesium		4760		5.5	54.8
Manganese		520		0.22	1.4
Sodium		319		18.1	54.8
Nickel		39.9		0.11	0.55
Lead		2550		0.11	0.55
Antimony		3.7		0.22	0.88
Selenium		2.9		0.33	1.1
Thallium		1.1		0.22	0.77
Vanadium		17.5		0.11	0.55
Zinc		524		0.55	5.5

Method:	6020	Analysis Batch: 220-34217	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34117	Lab File ID: N/A
Dilution:	10		Initial Weight/Volume: 1.18 g
Date Analyzed:	12/11/2009 1516		Final Weight/Volume: 1000 mL
Date Prepared:	12/10/2009 0757		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		105000		87.7	274

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216	Instrument ID: MERC1
Preparation:	7471A	Prep Batch: 220-34122	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.61 g
Date Analyzed:	12/11/2009 1717		Final Weight/Volume: 50 mL
Date Prepared:	12/10/2009 0904		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.3		0.0051	0.064

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10963-1

Client Sample ID: **PBL-7-5-S(8')**

Lab Sample ID: 220-10963-13
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 12/09/2009 1310
Date Received: 12/09/2009 1830

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/11/2009 1527
Date Prepared: 12/10/2009 0757

Analysis Batch: 220-34217
Prep Batch: 220-34117

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.13 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.23	J	0.11	0.53
Aluminum		5930		5.3	26.7
Arsenic		126		0.11	0.53
Barium		146		0.16	0.53
Beryllium		0.56		0.16	0.53
Calcium		32300		16.0	53.4
Cadmium		1.4		0.11	0.53
Cobalt		8.8		0.11	0.53
Chromium		62.8		0.21	1.1
Copper		237		0.11	1.1
Iron		52700		8.5	26.7
Potassium		1240		5.3	53.4
Magnesium		7930		5.3	53.4
Manganese		301		0.21	1.3
Sodium		841		17.6	53.4
Nickel		85.6		0.11	0.53
Lead		367		0.11	0.53
Antimony		0.88		0.21	0.85
Selenium		3.7		0.32	1.1
Thallium		1.2		0.21	0.75
Vanadium		26.2		0.11	0.53
Zinc		284		0.53	5.3

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 10
Date Analyzed: 12/11/2009 1805
Date Prepared: 12/10/2009 0904

Analysis Batch: 220-34216
Prep Batch: 220-34122

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		4.1		0.044	0.55

General Chemistry

Client Sample ID: **PBL-7-10-E(8')**

Lab Sample ID: 220-10963-1 Date Sampled: 12/09/2009 1150
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	85.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-5-E(8')**

Lab Sample ID: 220-10963-2 Date Sampled: 12/09/2009 1200
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	22.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	77.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-10-N(6')**

Lab Sample ID: 220-10963-3 Date Sampled: 12/09/2009 1210
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	88.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-10-N(9')**

Lab Sample ID: 220-10963-4 Date Sampled: 12/09/2009 1212

Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	85.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-5-N(6')**

Lab Sample ID: 220-10963-5 Date Sampled: 12/09/2009 1220
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	94.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-5-N(8')**

Lab Sample ID: 220-10963-6 Date Sampled: 12/09/2009 1221

Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	21.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	78.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-20-W(5')**

Lab Sample ID: 220-10963-7 Date Sampled: 12/09/2009 1225
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	76.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-20-W(7')**

Lab Sample ID: 220-10963-8 Date Sampled: 12/09/2009 1226
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	30.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	70.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-2-W(5')**

Lab Sample ID: 220-10963-9 Date Sampled: 12/09/2009 1245
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	87.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-2-W(9')**

Lab Sample ID: 220-10963-10 Date Sampled: 12/09/2009 1247

Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	27.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	72.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-10-S(6')**

Lab Sample ID: 220-10963-11 Date Sampled: 12/09/2009 1255
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	88.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-10-S(9')**

Lab Sample ID: 220-10963-12 Date Sampled: 12/09/2009 1256
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	22.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	77.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-5-S(8')**

Lab Sample ID: 220-10963-13 Date Sampled: 12/09/2009 1310
Client Matrix: Solid Date Received: 12/09/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N
Percent Solids	82.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34164	Date Analyzed: 12/10/2009 1654						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-10963-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	J	Indicates an estimated value.
	U	Analyzed for but not detected.
Metals		
	J	Sample result is greater than the MDL but below the CRDL
	U	Indicates analyzed for but not detected.

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Erika Cozza	**Field Sampler:** Erika Cozza	**TAT Required (business days):** 48 hr.	**Lab PM/Contact:** JMP
Company: Shaw E+I	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 10963
Address: 92 North Ave.	**E-Mail:** erika.cozza@shawgrp.com	**Deliverable Type (Report/EDD):**	**Passed Rad Screen (Lab Use Only):** [X] Yes [ ] No
City, State, Zip: New Rochelle, NY 10801	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):** 0.9 pde
Phone: 914-633-9324	**WO #:**		
Email: erika.cozza@shawgrp.com e.cozza@	**Project #:** 126649	**State Regulatory QC Criteria Requirements:**	
Project Name/Site Location (State): Kent Ave.	**SSOW#:**		

COC Number: 10769
Page 1 **of** 2
Carrier Tracking Notes:

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	Analysis (Attach list if more space is needed): 8270	TAL Metals	Comments
1	PBL-7-10-E(8')	12/9/09	1150	S		1							X	X	
2	PBL-7-5-E(8')	12/9/09	1200	S		1							X	X	
3	PBL-7-10-N(6')		1210	S		1							X	X	
4	PBL-7-10-N(9')		1212	S		1							X	X	
5	PBL-7-5-N(6')		1220	S		1							X	X	
6	PBL-7-5-N(8')		1221	S		1							X	X	
7	PBL-7-20-W(5')		1225	S		1							X	X	
8	PBL-7-20-W(7')		1226	S		1							X	X	
9	PBL-7-2-W(5')		1245	S		1							X	X	
10	PBL-7-2-W(9')		1247	S		1							X	X	

Relinquished by:	Date/Time: 12/9/09 1500	Company: Shaw E+I	Received by:	Date/Time: 12/9/09 1500	Company: TAC
Relinquished by:	Date/Time: 12/9/09 1815	Company: TAC	Received by:	Date/Time: 12-9-09 0830	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

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TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Erika Cozza	**Field Sampler:** Erika Cozza	**TAT Required (business days):** 48 hr.	**Lab PM/Contact:** JMD
Company: Shaw E+I	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 10963
Address: 92 North Ave.	**E-Mail:** erika.cozza@shawgrp.com	**Deliverable Type (Report/EDD):**	**Passed Rad Screen (Lab Use Only):** [X] Yes [ ] No
City, State, Zip: New Rochelle, NY 10801	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):** 0.9 Rec
Phone: 914-633-9324	**WO #:**		
Email: erika.cozza@shawgrp.com	**Project #:** 126649	**State Regulatory QC Criteria Requirements:**	
Project Name/Site Location (State): Kent Ave.	**SSOW#:**		

COC Number: 10768
Page 2 of 2
Carrier Tracking Notes:

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

Page #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix (Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other)	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	Analysis (Attach list if more space is needed): 8270	TAL Metals	Comments
	PBL-7-10-S (6')	12/9/09	1255	S		1							X	X	
	PBL-7-10-S(9')	12/9/09	1256	S		1							X	X	
	PBL-7-5-S(8')	12/9/09	1310	S		1							X	X	

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Relinquished by:	Date/Time: 12/9/09 1500	Company Shaw E+I	Received by:	Date/Time: 12/9/09 500	Company TAL
Relinquished by:	Date/Time: 12/9/09 1815	Company TAL	Received by:	Date/Time: 12-9-09 18:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

12/14/2009

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 220-10982-1

Job Description: Con Edison, Kent Avenue Generating Stati

For:
Shaw Environmental & Infrastructure, Inc
92 North Avenue
New Rochelle, NY 10801

Attention: Ms. Erika Cozza

Approved for release.
Jill M Duhancik
Project Manager I
12/15/2009 5:09 PM

Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
12/15/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

Table of Contents

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25259 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) precision of 4-Nitrophenol for batch 25259 was outside control limits.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-10982-1	PBL-8-5-E(5')	Solid	12/10/2009 0845	12/10/2009 1830
220-10982-2	PBL-8-5-E(9.5')	Solid	12/10/2009 0846	12/10/2009 1830
220-10982-3	PBL-8-10-E(6')	Solid	12/10/2009 0905	12/10/2009 1830
220-10982-4	PBL-8-10-E(10')	Solid	12/10/2009 0906	12/10/2009 1830
220-10982-5	PBL-8-10-N(5')	Solid	12/10/2009 0920	12/10/2009 1830
220-10982-6	PBL-8-10-N(9.5')	Solid	12/10/2009 0922	12/10/2009 1830
220-10982-7	PBL-8-5-S(5')	Solid	12/10/2009 1050	12/10/2009 1830
220-10982-8	PBL-8-5-S(9.5')	Solid	12/10/2009 1052	12/10/2009 1830
220-10982-9	PBL-8-10-S(5')	Solid	12/10/2009 1120	12/10/2009 1830
220-10982-10	PBL-8-10-S(9')	Solid	12/10/2009 1122	12/10/2009 1830
220-10982-11	PBL-7-20-N(5')	Solid	12/10/2009 1330	12/10/2009 1830
220-10982-12	PBL-7-20-N(10')	Solid	12/10/2009 1331	12/10/2009 1830
220-10982-13	PBL-8-10-W(8')	Solid	12/09/2009 1330	12/10/2009 1830
220-10982-14	PBL-8-5-W(5')	Solid	12/09/2009 1332	12/10/2009 1830
220-10982-15	PBL-8-5-W(10')	Solid	12/09/2009 1333	12/10/2009 1830

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-E(5')**

Lab Sample ID: 220-10982-1
Client Matrix: Solid
% Moisture: 19.0
Date Sampled: 12/10/2009 0845
Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10706.d
Dilution:	1.0			Initial Weight/Volume:	14.99 g
Date Analyzed:	12/14/2009 0700			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		410	U	50	410
2-Chlorophenol		410	U	55	410
2-Methylphenol		410	U	59	410
4-Methylphenol		410	U	67	410
2-Nitrophenol		410	U	67	410
2,4-Dimethylphenol		410	U	66	410
2,4-Dichlorophenol		410	U	66	410
4-Chloro-3-methylphenol		410	U	69	410
2,4,6-Trichlorophenol		410	U	73	410
2,4,5-Trichlorophenol		410	U	79	410
2,4-Dinitrophenol		1200	U	87	1200
4-Nitrophenol		1200	U	110	1200
4,6-Dinitro-2-methylphenol		1200	U	200	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		41	U	8.5	41
N-Nitrosodi-n-propylamine		41	U	5.4	41
Hexachloroethane		41	U	6.9	41
Nitrobenzene		41	U	9.1	41
Isophorone		410	U	47	410
Bis(2-chloroethoxy)methane		410	U	58	410
Naphthalene		410	U	60	410
4-Chloroaniline		410	U	51	410
Hexachlorobutadiene		83	U	17	83
2-Methylnaphthalene		120	J	60	410
Hexachlorocyclopentadiene		410	U	120	410
2-Chloronaphthalene		410	U	58	410
2-Nitroaniline		830	U	110	830
Dimethyl phthalate		410	U	55	410
Acenaphthylene		410	U	58	410
2,6-Dinitrotoluene		83	U	10	83
3-Nitroaniline		830	U	92	830
Acenaphthene		410	U	58	410
Dibenzofuran		410	U	61	410
2,4-Dinitrotoluene		83	U	12	83
Diethyl phthalate		410	U	55	410
4-Chlorophenyl phenyl ether		410	U	70	410
Fluorene		410	U	69	410
4-Nitroaniline		830	U	84	830
N-Nitrosodiphenylamine		410	U	67	410
4-Bromophenyl phenyl ether		410	U	73	410
Hexachlorobenzene		41	U	5.7	41
Phenanthrene		380	J	71	410
Anthracene		120	J	72	410
Carbazole		66	J	65	410
Di-n-butyl phthalate		410	U	63	410
Fluoranthene		380	J	68	410

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-E(5')**

Lab Sample ID: 220-10982-1 Date Sampled: 12/10/2009 0845
Client Matrix: Solid % Moisture: 19.0 Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10706.d
Dilution:	1.0			Initial Weight/Volume:	14.99 g
Date Analyzed:	12/14/2009 0700			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		280	J	71	410
Butyl benzyl phthalate		410	U	48	410
3,3'-Dichlorobenzidine		830	U	90	830
Benzo[a]anthracene		220		7.6	41
Chrysene		190	J	59	410
Bis(2-ethylhexyl) phthalate		510		54	410
Di-n-octyl phthalate		410	U	49	410
Benzo[b]fluoranthene		230		6.1	41
Benzo[k]fluoranthene		62		5.7	41
Benzo[a]pyrene		170		5.0	41
Indeno[1,2,3-cd]pyrene		120		6.5	41
Dibenz(a,h)anthracene		22	J	4.9	41
Benzo[g,h,i]perylene		140	J	43	410
1,1'-Biphenyl		410	U	67	410
Acetophenone		410	U	61	410
Benzaldehyde		410	U	26	410
Caprolactam		410	U	56	410
Atrazine		410	U	76	410
2,2'-oxybis[1-chloropropane]		410	U	54	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		38 - 105
Phenol-d5	71		41 - 118
Terphenyl-d14	72		16 - 151
2,4,6-Tribromophenol	35		10 - 120
2-Fluorophenol	76		37 - 125
2-Fluorobiphenyl	77		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-E(9.5')**

Lab Sample ID: 220-10982-2 | Date Sampled: 12/10/2009 0846
Client Matrix: Solid | % Moisture: 40.4 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10727.d
Dilution:	2.0			Initial Weight/Volume:	14.99 g
Date Analyzed:	12/14/2009 1751			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		1100	U	140	1100
2-Chlorophenol		1100	U	150	1100
2-Methylphenol		1100	U	160	1100
4-Methylphenol		1100	U	180	1100
2-Nitrophenol		1100	U	180	1100
2,4-Dimethylphenol		1100	U	180	1100
2,4-Dichlorophenol		1100	U	180	1100
4-Chloro-3-methylphenol		1100	U	190	1100
2,4,6-Trichlorophenol		1100	U	200	1100
2,4,5-Trichlorophenol		1100	U	210	1100
2,4-Dinitrophenol		3400	U	240	3400
4-Nitrophenol		3400	U	290	3400
4,6-Dinitro-2-methylphenol		3400	U	530	3400
Pentachlorophenol		3400	U	540	3400
Bis(2-chloroethyl)ether		110	U	23	110
N-Nitrosodi-n-propylamine		110	U	15	110
Hexachloroethane		110	U	19	110
Nitrobenzene		110	U	25	110
Isophorone		1100	U	130	1100
Bis(2-chloroethoxy)methane		1100	U	160	1100
Naphthalene		1100	U	160	1100
4-Chloroaniline		1100	U	140	1100
Hexachlorobutadiene		230	U	45	230
2-Methylnaphthalene		520	J	160	1100
Hexachlorocyclopentadiene		1100	U	320	1100
2-Chloronaphthalene		1100	U	160	1100
2-Nitroaniline		2300	U	300	2300
Dimethyl phthalate		1100	U	150	1100
Acenaphthylene		1100	U	160	1100
2,6-Dinitrotoluene		230	U	28	230
3-Nitroaniline		2300	U	250	2300
Acenaphthene		1100	U	160	1100
Dibenzofuran		1100	U	170	1100
2,4-Dinitrotoluene		230	U	32	230
Diethyl phthalate		1100	U	150	1100
4-Chlorophenyl phenyl ether		1100	U	190	1100
Fluorene		430	J	190	1100
4-Nitroaniline		2300	U	230	2300
N-Nitrosodiphenylamine		1100	U	180	1100
4-Bromophenyl phenyl ether		1100	U	200	1100
Hexachlorobenzene		110	U	15	110
Phenanthrene		1100	U	190	1100
Anthracene		1100	U	200	1100
Carbazole		1100	U	180	1100
Di-n-butyl phthalate		1100	U	170	1100
Fluoranthene		1100	U	180	1100

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-E(9.5')**

Lab Sample ID: 220-10982-2 | Date Sampled: 12/10/2009 0846
Client Matrix: Solid | % Moisture: 40.4 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10727.d
Dilution:	2.0			Initial Weight/Volume:	14.99 g
Date Analyzed:	12/14/2009 1751			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		1100	U	190	1100
Butyl benzyl phthalate		1100	U	130	1100
3,3'-Dichlorobenzidine		2300	U	250	2300
Benzo[a]anthracene		110	U	21	110
Chrysene		1100	U	160	1100
Bis(2-ethylhexyl) phthalate		1100	U	150	1100
Di-n-octyl phthalate		1100	U	130	1100
Benzo[b]fluoranthene		110	U	17	110
Benzo[k]fluoranthene		110	U	16	110
Benzo[a]pyrene		110	U	14	110
Indeno[1,2,3-cd]pyrene		110	U	18	110
Dibenz(a,h)anthracene		110	U	13	110
Benzo[g,h,i]perylene		1100	U	120	1100
1,1'-Biphenyl		1100	U	180	1100
Acetophenone		1100	U	160	1100
Benzaldehyde		1100	U	70	1100
Caprolactam		1100	U	150	1100
Atrazine		1100	U	210	1100
2,2'-oxybis[1-chloropropane]		1100	U	150	1100

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		38 - 105
Phenol-d5	71		41 - 118
Terphenyl-d14	69		16 - 151
2,4,6-Tribromophenol	53		10 - 120
2-Fluorophenol	77		37 - 125
2-Fluorobiphenyl	71		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-E(6')**

Lab Sample ID: 220-10982-3 | Date Sampled: 12/10/2009 0905
Client Matrix: Solid | % Moisture: 18.5 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10707.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0727			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		400	U	50	400
2-Chlorophenol		400	U	54	400
2-Methylphenol		400	U	58	400
4-Methylphenol		400	U	66	400
2-Nitrophenol		400	U	67	400
2,4-Dimethylphenol		400	U	65	400
2,4-Dichlorophenol		400	U	65	400
4-Chloro-3-methylphenol		400	U	68	400
2,4,6-Trichlorophenol		400	U	73	400
2,4,5-Trichlorophenol		400	U	78	400
2,4-Dinitrophenol		1200	U	86	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		40	U	8.4	40
N-Nitrosodi-n-propylamine		40	U	5.4	40
Hexachloroethane		40	U	6.8	40
Nitrobenzene		40	U	9.1	40
Isophorone		400	U	47	400
Bis(2-chloroethoxy)methane		400	U	58	400
Naphthalene		400	U	59	400
4-Chloroaniline		400	U	51	400
Hexachlorobutadiene		82	U	16	82
2-Methylnaphthalene		400	U	59	400
Hexachlorocyclopentadiene		400	U	120	400
2-Chloronaphthalene		400	U	57	400
2-Nitroaniline		820	U	110	820
Dimethyl phthalate		400	U	55	400
Acenaphthylene		400	U	58	400
2,6-Dinitrotoluene		82	U	10	82
3-Nitroaniline		820	U	92	820
Acenaphthene		400	U	58	400
Dibenzofuran		400	U	61	400
2,4-Dinitrotoluene		82	U	12	82
Diethyl phthalate		400	U	54	400
4-Chlorophenyl phenyl ether		400	U	70	400
Fluorene		400	U	69	400
4-Nitroaniline		820	U	84	820
N-Nitrosodiphenylamine		400	U	66	400
4-Bromophenyl phenyl ether		400	U	72	400
Hexachlorobenzene		40	U	5.6	40
Phenanthrene		71	J	71	400
Anthracene		400	U	72	400
Carbazole		400	U	64	400
Di-n-butyl phthalate		400	U	62	400
Fluoranthene		110	J	67	400

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-E(6')**

Lab Sample ID: 220-10982-3 | Date Sampled: 12/10/2009 0905
Client Matrix: Solid | % Moisture: 18.5 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10707.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0727			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		89	J	70	400
Butyl benzyl phthalate		400	U	47	400
3,3'-Dichlorobenzidine		820	U	90	820
Benzo[a]anthracene		40	U	7.5	40
Chrysene		400	U	59	400
Bis(2-ethylhexyl) phthalate		340	J	54	400
Di-n-octyl phthalate		400	U	48	400
Benzo[b]fluoranthene		95		6.0	40
Benzo[k]fluoranthene		46		5.7	40
Benzo[a]pyrene		82		5.0	40
Indeno[1,2,3-cd]pyrene		74		6.5	40
Dibenz(a,h)anthracene		40	U	4.9	40
Benzo[g,h,i]perylene		90	J	43	400
1,1'-Biphenyl		400	U	67	400
Acetophenone		400	U	60	400
Benzaldehyde		400	U	25	400
Caprolactam		400	U	56	400
Atrazine		400	U	76	400
2,2'-oxybis[1-chloropropane]		400	U	53	400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		38 - 105
Phenol-d5	67		41 - 118
Terphenyl-d14	67		16 - 151
2,4,6-Tribromophenol	35		10 - 120
2-Fluorophenol	73		37 - 125
2-Fluorobiphenyl	73		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-E(10')**

Lab Sample ID: 220-10982-4
Client Matrix: Solid
% Moisture: 25.4

Date Sampled: 12/10/2009 0906
Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10730.d
Dilution:	2.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/14/2009 1911			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		880	U	110	880
2-Chlorophenol		880	U	120	880
2-Methylphenol		880	U	130	880
4-Methylphenol		880	U	150	880
2-Nitrophenol		880	U	150	880
2,4-Dimethylphenol		880	U	140	880
2,4-Dichlorophenol		880	U	140	880
4-Chloro-3-methylphenol		880	U	150	880
2,4,6-Trichlorophenol		880	U	160	880
2,4,5-Trichlorophenol		880	U	170	880
2,4-Dinitrophenol		2700	U	190	2700
4-Nitrophenol		2700	U	230	2700
4,6-Dinitro-2-methylphenol		2700	U	420	2700
Pentachlorophenol		2700	U	430	2700
Bis(2-chloroethyl)ether		88	U	18	88
N-Nitrosodi-n-propylamine		88	U	12	88
Hexachloroethane		88	U	15	88
Nitrobenzene		88	U	20	88
Isophorone		880	U	100	880
Bis(2-chloroethoxy)methane		880	U	130	880
Naphthalene		880	U	130	880
4-Chloroaniline		880	U	110	880
Hexachlorobutadiene		180	U	36	180
2-Methylnaphthalene		180	J	130	880
Hexachlorocyclopentadiene		880	U	260	880
2-Chloronaphthalene		880	U	120	880
2-Nitroaniline		1800	U	240	1800
Dimethyl phthalate		880	U	120	880
Acenaphthylene		880	U	130	880
2,6-Dinitrotoluene		180	U	23	180
3-Nitroaniline		1800	U	200	1800
Acenaphthene		880	U	130	880
Dibenzofuran		880	U	130	880
2,4-Dinitrotoluene		180	U	26	180
Diethyl phthalate		880	U	120	880
4-Chlorophenyl phenyl ether		880	U	150	880
Fluorene		880	U	150	880
4-Nitroaniline		1800	U	180	1800
N-Nitrosodiphenylamine		880	U	140	880
4-Bromophenyl phenyl ether		880	U	160	880
Hexachlorobenzene		88	U	12	88
Phenanthrene		880	U	150	880
Anthracene		880	U	160	880
Carbazole		880	U	140	880
Di-n-butyl phthalate		880	U	140	880
Fluoranthene		880	U	150	880

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-E(10')**

Lab Sample ID: 220-10982-4 | Date Sampled: 12/10/2009 0906
Client Matrix: Solid | % Moisture: 25.4 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10730.d
Dilution:	2.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/14/2009 1911			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		880	U	150	880
Butyl benzyl phthalate		880	U	100	880
3,3'-Dichlorobenzidine		1800	U	200	1800
Benzo[a]anthracene		88	U	16	88
Chrysene		880	U	130	880
Bis(2-ethylhexyl) phthalate		880	U	120	880
Di-n-octyl phthalate		880	U	110	880
Benzo[b]fluoranthene		88	U	13	88
Benzo[k]fluoranthene		88	U	12	88
Benzo[a]pyrene		88	U	11	88
Indeno[1,2,3-cd]pyrene		88	U	14	88
Dibenz(a,h)anthracene		88	U	11	88
Benzo[g,h,i]perylene		880	U	93	880
1,1'-Biphenyl		880	U	150	880
Acetophenone		880	U	130	880
Benzaldehyde		880	U	55	880
Caprolactam		880	U	120	880
Atrazine		880	U	170	880
2,2'-oxybis[1-chloropropane]		880	U	120	880

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	65		38 - 105
Phenol-d5	57		41 - 118
Terphenyl-d14	63		16 - 151
2,4,6-Tribromophenol	26		10 - 120
2-Fluorophenol	70		37 - 125
2-Fluorobiphenyl	68		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-N(5')**

Lab Sample ID: 220-10982-5
Client Matrix: Solid
% Moisture: 21.2

Date Sampled: 12/10/2009 0920
Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10701.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0445			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		420	U	51	420
2-Chlorophenol		420	U	56	420
2-Methylphenol		420	U	60	420
4-Methylphenol		420	U	69	420
2-Nitrophenol		420	U	69	420
2,4-Dimethylphenol		420	U	67	420
2,4-Dichlorophenol		420	U	67	420
4-Chloro-3-methylphenol		420	U	70	420
2,4,6-Trichlorophenol		420	U	75	420
2,4,5-Trichlorophenol		420	U	81	420
2,4-Dinitrophenol		1300	U	89	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	200	1300
Pentachlorophenol		1300	U	210	1300
Bis(2-chloroethyl)ether		42	U	8.7	42
N-Nitrosodi-n-propylamine		42	U	5.5	42
Hexachloroethane		42	U	7.1	42
Nitrobenzene		42	U	9.4	42
Isophorone		420	U	48	420
Bis(2-chloroethoxy)methane		420	U	60	420
Naphthalene		420	U	61	420
4-Chloroaniline		420	U	53	420
Hexachlorobutadiene		85	U	17	85
2-Methylnaphthalene		220	J	61	420
Hexachlorocyclopentadiene		420	U	120	420
2-Chloronaphthalene		420	U	59	420
2-Nitroaniline		850	U	110	850
Dimethyl phthalate		420	U	57	420
Acenaphthylene		420	U	60	420
2,6-Dinitrotoluene		85	U	11	85
3-Nitroaniline		850	U	95	850
Acenaphthene		420	U	60	420
Dibenzofuran		420	U	63	420
2,4-Dinitrotoluene		85	U	12	85
Diethyl phthalate		420	U	56	420
4-Chlorophenyl phenyl ether		420	U	72	420
Fluorene		420	U	71	420
4-Nitroaniline		850	U	87	850
N-Nitrosodiphenylamine		420	U	68	420
4-Bromophenyl phenyl ether		420	U	75	420
Hexachlorobenzene		42	U	5.8	42
Phenanthrene		280	J	73	420
Anthracene		420	U	74	420
Carbazole		420	U	67	420
Di-n-butyl phthalate		420	U	64	420
Fluoranthene		250	J	70	420

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-N(5')**

Lab Sample ID: 220-10982-5 | Date Sampled: 12/10/2009 0920
Client Matrix: Solid | % Moisture: 21.2 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10701.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0445			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		200	J	73	420
Butyl benzyl phthalate		420	U	49	420
3,3'-Dichlorobenzidine		850	U	93	850
Benzo[a]anthracene		120		7.8	42
Chrysene		140	J	61	420
Bis(2-ethylhexyl) phthalate		210	J	56	420
Di-n-octyl phthalate		420	U	50	420
Benzo[b]fluoranthene		140		6.2	42
Benzo[k]fluoranthene		47		5.9	42
Benzo[a]pyrene		110		5.2	42
Indeno[1,2,3-cd]pyrene		72		6.7	42
Dibenz(a,h)anthracene		42	U	5.1	42
Benzo[g,h,i]perylene		86	J	44	420
1,1'-Biphenyl		420	U	69	420
Acetophenone		420	U	62	420
Benzaldehyde		420	U	26	420
Caprolactam		420	U	58	420
Atrazine		420	U	78	420
2,2'-oxybis[1-chloropropane]		420	U	55	420

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	72		38 - 105
Phenol-d5	65		41 - 118
Terphenyl-d14	67		16 - 151
2,4,6-Tribromophenol	31		10 - 120
2-Fluorophenol	72		37 - 125
2-Fluorobiphenyl	74		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-N(9.5')**

Lab Sample ID: 220-10982-6 | Date Sampled: 12/10/2009 0922
Client Matrix: Solid | % Moisture: 38.1 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10723.d
Dilution:	5.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 1603			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		2700	U	330	2700
2-Chlorophenol		2700	U	360	2700
2-Methylphenol		2700	U	380	2700
4-Methylphenol		2700	U	440	2700
2-Nitrophenol		2700	U	440	2700
2,4-Dimethylphenol		2700	U	430	2700
2,4-Dichlorophenol		2700	U	430	2700
4-Chloro-3-methylphenol		2700	U	450	2700
2,4,6-Trichlorophenol		2700	U	480	2700
2,4,5-Trichlorophenol		2700	U	510	2700
2,4-Dinitrophenol		8100	U	570	8100
4-Nitrophenol		8100	U	690	8100
4,6-Dinitro-2-methylphenol		8100	U	1300	8100
Pentachlorophenol		8100	U	1300	8100
Bis(2-chloroethyl)ether		270	U	56	270
N-Nitrosodi-n-propylamine		270	U	35	270
Hexachloroethane		270	U	45	270
Nitrobenzene		270	U	60	270
Isophorone		2700	U	310	2700
Bis(2-chloroethoxy)methane		2700	U	380	2700
Naphthalene		2700	U	390	2700
4-Chloroaniline		2700	U	340	2700
Hexachlorobutadiene		540	U	110	540
2-Methylnaphthalene		2000	J	390	2700
Hexachlorocyclopentadiene		2700	U	780	2700
2-Chloronaphthalene		2700	U	380	2700
2-Nitroaniline		5400	U	730	5400
Dimethyl phthalate		2700	U	360	2700
Acenaphthylene		2700	U	380	2700
2,6-Dinitrotoluene		540	U	68	540
3-Nitroaniline		5400	U	600	5400
Acenaphthene		2700	U	380	2700
Dibenzofuran		2700	U	400	2700
2,4-Dinitrotoluene		540	U	78	540
Diethyl phthalate		2700	U	360	2700
4-Chlorophenyl phenyl ether		2700	U	460	2700
Fluorene		1200	J	450	2700
4-Nitroaniline		5400	U	550	5400
N-Nitrosodiphenylamine		2700	U	440	2700
4-Bromophenyl phenyl ether		2700	U	480	2700
Hexachlorobenzene		270	U	37	270
Phenanthrene		2700	U	470	2700
Anthracene		2700	U	470	2700
Carbazole		2700	U	420	2700
Di-n-butyl phthalate		2700	U	410	2700
Fluoranthene		2700	U	440	2700

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-N(9.5')**

Lab Sample ID: 220-10982-6 | Date Sampled: 12/10/2009 0922
Client Matrix: Solid | % Moisture: 38.1 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10723.d
Dilution:	5.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 1603			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		2700	U	460	2700
Butyl benzyl phthalate		2700	U	310	2700
3,3'-Dichlorobenzidine		5400	U	590	5400
Benzo[a]anthracene		270	U	49	270
Chrysene		2700	U	390	2700
Bis(2-ethylhexyl) phthalate		2700	U	350	2700
Di-n-octyl phthalate		2700	U	320	2700
Benzo[b]fluoranthene		270	U	40	270
Benzo[k]fluoranthene		270	U	37	270
Benzo[a]pyrene		270	U	33	270
Indeno[1,2,3-cd]pyrene		270	U	43	270
Dibenz(a,h)anthracene		270	U	32	270
Benzo[g,h,i]perylene		2700	U	280	2700
1,1'-Biphenyl		2700	U	440	2700
Acetophenone		2700	U	400	2700
Benzaldehyde		2700	U	170	2700
Caprolactam		2700	U	370	2700
Atrazine		2700	U	500	2700
2,2'-oxybis[1-chloropropane]		2700	U	350	2700

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	68		38 - 105
Phenol-d5	71		41 - 118
Terphenyl-d14	63		16 - 151
2,4,6-Tribromophenol	69		10 - 120
2-Fluorophenol	75		37 - 125
2-Fluorobiphenyl	71		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-S(5')**

Lab Sample ID: 220-10982-7
Client Matrix: Solid
% Moisture: 23.4
Date Sampled: 12/10/2009 1050
Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10702.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 0512			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		430	U	53	430
2-Chlorophenol		430	U	58	430
2-Methylphenol		430	U	62	430
4-Methylphenol		430	U	71	430
2-Nitrophenol		430	U	71	430
2,4-Dimethylphenol		430	U	69	430
2,4-Dichlorophenol		430	U	69	430
4-Chloro-3-methylphenol		430	U	72	430
2,4,6-Trichlorophenol		430	U	77	430
2,4,5-Trichlorophenol		430	U	83	430
2,4-Dinitrophenol		1300	U	92	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	210	1300
Pentachlorophenol		1300	U	210	1300
Bis(2-chloroethyl)ether		43	U	9.0	43
N-Nitrosodi-n-propylamine		43	U	5.7	43
Hexachloroethane		43	U	7.3	43
Nitrobenzene		43	U	9.7	43
Isophorone		430	U	50	430
Bis(2-chloroethoxy)methane		430	U	62	430
Naphthalene		430	U	63	430
4-Chloroaniline		430	U	54	430
Hexachlorobutadiene		87	U	17	87
2-Methylnaphthalene		430	U	63	430
Hexachlorocyclopentadiene		430	U	130	430
2-Chloronaphthalene		430	U	61	430
2-Nitroaniline		870	U	120	870
Dimethyl phthalate		430	U	58	430
Acenaphthylene		430	U	62	430
2,6-Dinitrotoluene		87	U	11	87
3-Nitroaniline		870	U	98	870
Acenaphthene		430	U	61	430
Dibenzofuran		430	U	65	430
2,4-Dinitrotoluene		87	U	13	87
Diethyl phthalate		430	U	58	430
4-Chlorophenyl phenyl ether		430	U	74	430
Fluorene		430	U	73	430
4-Nitroaniline		870	U	89	870
N-Nitrosodiphenylamine		430	U	70	430
4-Bromophenyl phenyl ether		430	U	77	430
Hexachlorobenzene		43	U	6.0	43
Phenanthrene		430	U	75	430
Anthracene		430	U	76	430
Carbazole		430	U	69	430
Di-n-butyl phthalate		430	U	66	430
Fluoranthene		430	U	72	430

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-S(5')**

Lab Sample ID: 220-10982-7 | Date Sampled: 12/10/2009 1050
Client Matrix: Solid | % Moisture: 23.4 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10702.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 0512			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		430	U	75	430
Butyl benzyl phthalate		430	U	50	430
3,3'-Dichlorobenzidine		870	U	96	870
Benzo[a]anthracene		43	U	8.0	43
Chrysene		430	U	63	430
Bis(2-ethylhexyl) phthalate		220	J	57	430
Di-n-octyl phthalate		430	U	51	430
Benzo[b]fluoranthene		43	U	6.4	43
Benzo[k]fluoranthene		43	U	6.0	43
Benzo[a]pyrene		43	U	5.3	43
Indeno[1,2,3-cd]pyrene		43	U	6.9	43
Dibenz(a,h)anthracene		43	U	5.2	43
Benzo[g,h,i]perylene		430	U	46	430
1,1'-Biphenyl		430	U	71	430
Acetophenone		430	U	64	430
Benzaldehyde		430	U	27	430
Caprolactam		430	U	59	430
Atrazine		430	U	81	430
2,2'-oxybis[1-chloropropane]		430	U	57	430

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		38 - 105
Phenol-d5	68		41 - 118
Terphenyl-d14	76		16 - 151
2,4,6-Tribromophenol	38		10 - 120
2-Fluorophenol	76		37 - 125
2-Fluorobiphenyl	76		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-S(9.5')**

Lab Sample ID: 220-10982-8 | Date Sampled: 12/10/2009 1052
Client Matrix: Solid | % Moisture: 38.1 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10724.d
Dilution:	2.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1631			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		1100	U	130	1100
2-Chlorophenol		1100	U	140	1100
2-Methylphenol		1100	U	150	1100
4-Methylphenol		1100	U	170	1100
2-Nitrophenol		1100	U	180	1100
2,4-Dimethylphenol		1100	U	170	1100
2,4-Dichlorophenol		1100	U	170	1100
4-Chloro-3-methylphenol		1100	U	180	1100
2,4,6-Trichlorophenol		1100	U	190	1100
2,4,5-Trichlorophenol		1100	U	210	1100
2,4-Dinitrophenol		3200	U	230	3200
4-Nitrophenol		3200	U	270	3200
4,6-Dinitro-2-methylphenol		3200	U	510	3200
Pentachlorophenol		3200	U	520	3200
Bis(2-chloroethyl)ether		110	U	22	110
N-Nitrosodi-n-propylamine		110	U	14	110
Hexachloroethane		110	U	18	110
Nitrobenzene		110	U	24	110
Isophorone		1100	U	120	1100
Bis(2-chloroethoxy)methane		1100	U	150	1100
Naphthalene		1100	U	160	1100
4-Chloroaniline		1100	U	130	1100
Hexachlorobutadiene		220	U	43	220
2-Methylnaphthalene		1100	U	160	1100
Hexachlorocyclopentadiene		1100	U	310	1100
2-Chloronaphthalene		1100	U	150	1100
2-Nitroaniline		2200	U	290	2200
Dimethyl phthalate		1100	U	140	1100
Acenaphthylene		1100	U	150	1100
2,6-Dinitrotoluene		220	U	27	220
3-Nitroaniline		2200	U	240	2200
Acenaphthene		1100	U	150	1100
Dibenzofuran		1100	U	160	1100
2,4-Dinitrotoluene		220	U	31	220
Diethyl phthalate		1100	U	140	1100
4-Chlorophenyl phenyl ether		1100	U	180	1100
Fluorene		470	J	180	1100
4-Nitroaniline		2200	U	220	2200
N-Nitrosodiphenylamine		1100	U	170	1100
4-Bromophenyl phenyl ether		1100	U	190	1100
Hexachlorobenzene		110	U	15	110
Phenanthrene		1100	U	190	1100
Anthracene		1100	U	190	1100
Carbazole		1100	U	170	1100
Di-n-butyl phthalate		1100	U	160	1100
Fluoranthene		1100	U	180	1100

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-S(9.5')**

Lab Sample ID: 220-10982-8 | Date Sampled: 12/10/2009 1052
Client Matrix: Solid | % Moisture: 38.1 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10724.d
Dilution:	2.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1631			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		1100	U	180	1100
Butyl benzyl phthalate		1100	U	120	1100
3,3'-Dichlorobenzidine		2200	U	240	2200
Benzo[a]anthracene		110	U	20	110
Chrysene		1100	U	160	1100
Bis(2-ethylhexyl) phthalate		260	J	140	1100
Di-n-octyl phthalate		1100	U	130	1100
Benzo[b]fluoranthene		110	U	16	110
Benzo[k]fluoranthene		110	U	15	110
Benzo[a]pyrene		110	U	13	110
Indeno[1,2,3-cd]pyrene		110	U	17	110
Dibenz(a,h)anthracene		110	U	13	110
Benzo[g,h,i]perylene		1100	U	110	1100
1,1'-Biphenyl		1100	U	180	1100
Acetophenone		1100	U	160	1100
Benzaldehyde		1100	U	67	1100
Caprolactam		1100	U	150	1100
Atrazine		1100	U	200	1100
2,2'-oxybis[1-chloropropane]		1100	U	140	1100

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	65		38 - 105
Phenol-d5	71		41 - 118
Terphenyl-d14	63		16 - 151
2,4,6-Tribromophenol	63		10 - 120
2-Fluorophenol	75		37 - 125
2-Fluorobiphenyl	69		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-S(5')**

Lab Sample ID: 220-10982-9
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 12/10/2009 1120
Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10700.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 0418			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		400	U	49	400
2-Chlorophenol		400	U	53	400
2-Methylphenol		400	U	57	400
4-Methylphenol		400	U	65	400
2-Nitrophenol		400	U	66	400
2,4-Dimethylphenol		400	U	64	400
2,4-Dichlorophenol		400	U	64	400
4-Chloro-3-methylphenol		400	U	67	400
2,4,6-Trichlorophenol		400	U	71	400
2,4,5-Trichlorophenol		400	U	77	400
2,4-Dinitrophenol		1200	U	85	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		40	U	8.3	40
N-Nitrosodi-n-propylamine		40	U	5.3	40
Hexachloroethane		40	U	6.7	40
Nitrobenzene		40	U	8.9	40
Isophorone		400	U	46	400
Bis(2-chloroethoxy)methane		400	U	57	400
Naphthalene		400	U	58	400
4-Chloroaniline		400	U	50	400
Hexachlorobutadiene		81	U	16	81
2-Methylnaphthalene		400	U	58	400
Hexachlorocyclopentadiene		400	U	120	400
2-Chloronaphthalene		400	U	56	400
2-Nitroaniline		810	U	110	810
Dimethyl phthalate		400	U	54	400
Acenaphthylene		400	U	57	400
2,6-Dinitrotoluene		81	U	10	81
3-Nitroaniline		810	U	90	810
Acenaphthene		400	U	57	400
Dibenzofuran		400	U	60	400
2,4-Dinitrotoluene		81	U	12	81
Diethyl phthalate		400	U	54	400
4-Chlorophenyl phenyl ether		400	U	69	400
Fluorene		400	U	68	400
4-Nitroaniline		810	U	82	810
N-Nitrosodiphenylamine		400	U	65	400
4-Bromophenyl phenyl ether		400	U	71	400
Hexachlorobenzene		40	U	5.5	40
Phenanthrene		400	U	70	400
Anthracene		400	U	71	400
Carbazole		400	U	64	400
Di-n-butyl phthalate		400	U	61	400
Fluoranthene		400	U	66	400

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-S(5')**

Lab Sample ID: 220-10982-9 | Date Sampled: 12/10/2009 1120
Client Matrix: Solid | % Moisture: 17.2 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10700.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 0418			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		400	U	69	400
Butyl benzyl phthalate		400	U	47	400
3,3'-Dichlorobenzidine		810	U	88	810
Benzo[a]anthracene		40	U	7.4	40
Chrysene		400	U	58	400
Bis(2-ethylhexyl) phthalate		110	J	53	400
Di-n-octyl phthalate		400	U	47	400
Benzo[b]fluoranthene		40	U	5.9	40
Benzo[k]fluoranthene		40	U	5.6	40
Benzo[a]pyrene		40	U	4.9	40
Indeno[1,2,3-cd]pyrene		40	U	6.4	40
Dibenz(a,h)anthracene		40	U	4.8	40
Benzo[g,h,i]perylene		400	U	42	400
1,1'-Biphenyl		400	U	66	400
Acetophenone		400	U	59	400
Benzaldehyde		400	U	25	400
Caprolactam		400	U	55	400
Atrazine		400	U	75	400
2,2'-oxybis[1-chloropropane]		400	U	52	400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		38 - 105
Phenol-d5	65		41 - 118
Terphenyl-d14	75		16 - 151
2,4,6-Tribromophenol	49		10 - 120
2-Fluorophenol	77		37 - 125
2-Fluorobiphenyl	72		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-S(9')**

Lab Sample ID: 220-10982-10 | Date Sampled: 12/10/2009 1122
Client Matrix: Solid | % Moisture: 35.8 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10725.d
Dilution:	2.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1657			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		1000	U	130	1000
2-Chlorophenol		1000	U	140	1000
2-Methylphenol		1000	U	150	1000
4-Methylphenol		1000	U	170	1000
2-Nitrophenol		1000	U	170	1000
2,4-Dimethylphenol		1000	U	160	1000
2,4-Dichlorophenol		1000	U	160	1000
4-Chloro-3-methylphenol		1000	U	170	1000
2,4,6-Trichlorophenol		1000	U	180	1000
2,4,5-Trichlorophenol		1000	U	200	1000
2,4-Dinitrophenol		3100	U	220	3100
4-Nitrophenol		3100	U	260	3100
4,6-Dinitro-2-methylphenol		3100	U	490	3100
Pentachlorophenol		3100	U	500	3100
Bis(2-chloroethyl)ether		100	U	21	100
N-Nitrosodi-n-propylamine		100	U	14	100
Hexachloroethane		100	U	17	100
Nitrobenzene		100	U	23	100
Isophorone		1000	U	120	1000
Bis(2-chloroethoxy)methane		1000	U	150	1000
Naphthalene		540	J	150	1000
4-Chloroaniline		1000	U	130	1000
Hexachlorobutadiene		210	U	42	210
2-Methylnaphthalene		1100		150	1000
Hexachlorocyclopentadiene		1000	U	300	1000
2-Chloronaphthalene		1000	U	150	1000
2-Nitroaniline		2100	U	280	2100
Dimethyl phthalate		1000	U	140	1000
Acenaphthylene		1000	U	150	1000
2,6-Dinitrotoluene		210	U	26	210
3-Nitroaniline		2100	U	230	2100
Acenaphthene		560	J	150	1000
Dibenzofuran		380	J	150	1000
2,4-Dinitrotoluene		210	U	30	210
Diethyl phthalate		1000	U	140	1000
4-Chlorophenyl phenyl ether		1000	U	180	1000
Fluorene		610	J	170	1000
4-Nitroaniline		2100	U	210	2100
N-Nitrosodiphenylamine		1000	U	170	1000
4-Bromophenyl phenyl ether		1000	U	180	1000
Hexachlorobenzene		100	U	14	100
Phenanthrene		270	J	180	1000
Anthracene		490	J	180	1000
Carbazole		290	J	160	1000
Di-n-butyl phthalate		1000	U	160	1000
Fluoranthene		1700		170	1000

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-S(9')**

Lab Sample ID: 220-10982-10 | Date Sampled: 12/10/2009 1122
Client Matrix: Solid | % Moisture: 35.8 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10725.d
Dilution:	2.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1657			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		1200		180	1000
Butyl benzyl phthalate		1000	U	120	1000
3,3'-Dichlorobenzidine		2100	U	230	2100
Benzo[a]anthracene		380		19	100
Chrysene		290	J	150	1000
Bis(2-ethylhexyl) phthalate		280	J	140	1000
Di-n-octyl phthalate		1000	U	120	1000
Benzo[b]fluoranthene		160		15	100
Benzo[k]fluoranthene		100	U	14	100
Benzo[a]pyrene		110		13	100
Indeno[1,2,3-cd]pyrene		100	U	16	100
Dibenz(a,h)anthracene		100	U	12	100
Benzo[g,h,i]perylene		1000	U	110	1000
1,1'-Biphenyl		1000	U	170	1000
Acetophenone		1000	U	150	1000
Benzaldehyde		1000	U	64	1000
Caprolactam		1000	U	140	1000
Atrazine		1000	U	190	1000
2,2'-oxybis[1-chloropropane]		1000	U	140	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	66		38 - 105
Phenol-d5	70		41 - 118
Terphenyl-d14	65		16 - 151
2,4,6-Tribromophenol	63		10 - 120
2-Fluorophenol	76		37 - 125
2-Fluorobiphenyl	70		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-7-20-N(5')**

Lab Sample ID: 220-10982-11

Client Matrix: Solid

% Moisture: 14.4

Date Sampled: 12/10/2009 1330

Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358	Instrument ID: BNAMS10
Preparation:	3541	Prep Batch: 460-25259	Lab File ID: p10703.d
Dilution:	1.0		Initial Weight/Volume: 15.00 g
Date Analyzed:	12/14/2009 0539		Final Weight/Volume: 1 mL
Date Prepared:	12/12/2009 0323		Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		390	U	47	390
2-Chlorophenol		390	U	52	390
2-Methylphenol		390	U	56	390
4-Methylphenol		390	U	63	390
2-Nitrophenol		390	U	64	390
2,4-Dimethylphenol		390	U	62	390
2,4-Dichlorophenol		390	U	62	390
4-Chloro-3-methylphenol		390	U	65	390
2,4,6-Trichlorophenol		390	U	69	390
2,4,5-Trichlorophenol		390	U	74	390
2,4-Dinitrophenol		1200	U	82	1200
4-Nitrophenol		1200	U	99	1200
4,6-Dinitro-2-methylphenol		1200	U	180	1200
Pentachlorophenol		1200	U	190	1200
Bis(2-chloroethyl)ether		39	U	8.0	39
N-Nitrosodi-n-propylamine		39	U	5.1	39
Hexachloroethane		39	U	6.5	39
Nitrobenzene		39	U	8.6	39
Isophorone		390	U	44	390
Bis(2-chloroethoxy)methane		390	U	55	390
Naphthalene		390	U	57	390
4-Chloroaniline		390	U	49	390
Hexachlorobutadiene		78	U	16	78
2-Methylnaphthalene		390	U	56	390
Hexachlorocyclopentadiene		390	U	110	390
2-Chloronaphthalene		390	U	55	390
2-Nitroaniline		780	U	110	780
Dimethyl phthalate		390	U	52	390
Acenaphthylene		390	U	55	390
2,6-Dinitrotoluene		78	U	9.8	78
3-Nitroaniline		780	U	87	780
Acenaphthene		390	U	55	390
Dibenzofuran		390	U	58	390
2,4-Dinitrotoluene		78	U	11	78
Diethyl phthalate		390	U	52	390
4-Chlorophenyl phenyl ether		390	U	66	390
Fluorene		390	U	65	390
4-Nitroaniline		780	U	80	780
N-Nitrosodiphenylamine		390	U	63	390
4-Bromophenyl phenyl ether		390	U	69	390
Hexachlorobenzene		39	U	5.4	39
Phenanthrene		68	J	67	390
Anthracene		390	U	68	390
Carbazole		390	U	61	390
Di-n-butyl phthalate		390	U	59	390
Fluoranthene		390	U	64	390

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-7-20-N(5')**

Lab Sample ID: 220-10982-11 | Date Sampled: 12/10/2009 1330
Client Matrix: Solid | % Moisture: 14.4 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10703.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/14/2009 0539			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		390	U	67	390
Butyl benzyl phthalate		390	U	45	390
3,3'-Dichlorobenzidine		780	U	86	780
Benzo[a]anthracene		47		7.1	39
Chrysene		91	J	56	390
Bis(2-ethylhexyl) phthalate		150	J	51	390
Di-n-octyl phthalate		390	U	46	390
Benzo[b]fluoranthene		50		5.7	39
Benzo[k]fluoranthene		39	U	5.4	39
Benzo[a]pyrene		26	J	4.8	39
Indeno[1,2,3-cd]pyrene		39	U	6.2	39
Dibenz(a,h)anthracene		39	U	4.6	39
Benzo[g,h,i]perylene		390	U	41	390
1,1'-Biphenyl		390	U	64	390
Acetophenone		390	U	57	390
Benzaldehyde		390	U	24	390
Caprolactam		390	U	53	390
Atrazine		390	U	72	390
2,2'-oxybis[1-chloropropane]		390	U	51	390

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		38 - 105
Phenol-d5	74		41 - 118
Terphenyl-d14	80		16 - 151
2,4,6-Tribromophenol	58		10 - 120
2-Fluorophenol	77		37 - 125
2-Fluorobiphenyl	73		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-7-20-N(10')**

Lab Sample ID: 220-10982-12
Client Matrix: Solid
% Moisture: 23.1

Date Sampled: 12/10/2009 1331
Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10704.d
Dilution:	1.0			Initial Weight/Volume:	14.98 g
Date Analyzed:	12/14/2009 0606			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		430	U	53	430
2-Chlorophenol		430	U	58	430
2-Methylphenol		430	U	62	430
4-Methylphenol		430	U	71	430
2-Nitrophenol		430	U	71	430
2,4-Dimethylphenol		430	U	69	430
2,4-Dichlorophenol		430	U	69	430
4-Chloro-3-methylphenol		430	U	72	430
2,4,6-Trichlorophenol		430	U	77	430
2,4,5-Trichlorophenol		430	U	83	430
2,4-Dinitrophenol		1300	U	91	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	210	1300
Pentachlorophenol		1300	U	210	1300
Bis(2-chloroethyl)ether		43	U	9.0	43
N-Nitrosodi-n-propylamine		43	U	5.7	43
Hexachloroethane		43	U	7.3	43
Nitrobenzene		43	U	9.6	43
Isophorone		430	U	49	430
Bis(2-chloroethoxy)methane		430	U	61	430
Naphthalene		430	U	63	430
4-Chloroaniline		430	U	54	430
Hexachlorobutadiene		87	U	17	87
2-Methylnaphthalene		430	U	63	430
Hexachlorocyclopentadiene		430	U	130	430
2-Chloronaphthalene		430	U	61	430
2-Nitroaniline		870	U	120	870
Dimethyl phthalate		430	U	58	430
Acenaphthylene		430	U	62	430
2,6-Dinitrotoluene		87	U	11	87
3-Nitroaniline		870	U	97	870
Acenaphthene		430	U	61	430
Dibenzofuran		430	U	65	430
2,4-Dinitrotoluene		87	U	13	87
Diethyl phthalate		430	U	58	430
4-Chlorophenyl phenyl ether		430	U	74	430
Fluorene		430	U	73	430
4-Nitroaniline		870	U	89	870
N-Nitrosodiphenylamine		430	U	70	430
4-Bromophenyl phenyl ether		430	U	77	430
Hexachlorobenzene		43	U	6.0	43
Phenanthrene		430	U	75	430
Anthracene		430	U	76	430
Carbazole		430	U	68	430
Di-n-butyl phthalate		430	U	66	430
Fluoranthene		430	U	72	430

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-7-20-N(10')**

Lab Sample ID: 220-10982-12 | Date Sampled: 12/10/2009 1331
Client Matrix: Solid | % Moisture: 23.1 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10704.d
Dilution:	1.0			Initial Weight/Volume:	14.98 g
Date Analyzed:	12/14/2009 0606			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		430	U	74	430
Butyl benzyl phthalate		430	U	50	430
3,3'-Dichlorobenzidine		870	U	95	870
Benzo[a]anthracene		29	J	8.0	43
Chrysene		430	U	63	430
Bis(2-ethylhexyl) phthalate		430	U	57	430
Di-n-octyl phthalate		430	U	51	430
Benzo[b]fluoranthene		28	J	6.4	43
Benzo[k]fluoranthene		43	U	6.0	43
Benzo[a]pyrene		16	J	5.3	43
Indeno[1,2,3-cd]pyrene		43	U	6.9	43
Dibenz(a,h)anthracene		43	U	5.2	43
Benzo[g,h,i]perylene		430	U	45	430
1,1'-Biphenyl		430	U	71	430
Acetophenone		430	U	64	430
Benzaldehyde		430	U	27	430
Caprolactam		430	U	59	430
Atrazine		430	U	80	430
2,2'-oxybis[1-chloropropane]		430	U	56	430

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		38 - 105
Phenol-d5	68		41 - 118
Terphenyl-d14	66		16 - 151
2,4,6-Tribromophenol	39		10 - 120
2-Fluorophenol	71		37 - 125
2-Fluorobiphenyl	72		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-W(8')**

Lab Sample ID: 220-10982-13 | Date Sampled: 12/09/2009 1330
Client Matrix: Solid | % Moisture: 17.5 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10705.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0633			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		400	U	49	400
2-Chlorophenol		400	U	53	400
2-Methylphenol		400	U	58	400
4-Methylphenol		400	U	66	400
2-Nitrophenol		400	U	66	400
2,4-Dimethylphenol		400	U	64	400
2,4-Dichlorophenol		400	U	64	400
4-Chloro-3-methylphenol		400	U	67	400
2,4,6-Trichlorophenol		400	U	72	400
2,4,5-Trichlorophenol		400	U	77	400
2,4-Dinitrophenol		1200	U	85	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		40	U	8.3	40
N-Nitrosodi-n-propylamine		40	U	5.3	40
Hexachloroethane		40	U	6.7	40
Nitrobenzene		40	U	9.0	40
Isophorone		400	U	46	400
Bis(2-chloroethoxy)methane		400	U	57	400
Naphthalene		260	J	59	400
4-Chloroaniline		400	U	50	400
Hexachlorobutadiene		81	U	16	81
2-Methylnaphthalene		520		58	400
Hexachlorocyclopentadiene		400	U	120	400
2-Chloronaphthalene		400	U	56	400
2-Nitroaniline		810	U	110	810
Dimethyl phthalate		400	U	54	400
Acenaphthylene		400	U	57	400
2,6-Dinitrotoluene		81	U	10	81
3-Nitroaniline		810	U	90	810
Acenaphthene		400	U	57	400
Dibenzofuran		400	U	60	400
2,4-Dinitrotoluene		81	U	12	81
Diethyl phthalate		400	U	54	400
4-Chlorophenyl phenyl ether		400	U	69	400
Fluorene		400	U	68	400
4-Nitroaniline		810	U	83	810
N-Nitrosodiphenylamine		400	U	65	400
4-Bromophenyl phenyl ether		400	U	71	400
Hexachlorobenzene		40	U	5.6	40
Phenanthrene		400	U	70	400
Anthracene		400	U	71	400
Carbazole		400	U	64	400
Di-n-butyl phthalate		400	U	61	400
Fluoranthene		400	U	67	400

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-W(8')**

Lab Sample ID: 220-10982-13 | Date Sampled: 12/09/2009 1330
Client Matrix: Solid | % Moisture: 17.5 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10705.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0633			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		400	U	69	400
Butyl benzyl phthalate		400	U	47	400
3,3'-Dichlorobenzidine		810	U	89	810
Benzo[a]anthracene		40	U	7.4	40
Chrysene		400	U	58	400
Bis(2-ethylhexyl) phthalate		320	J	53	400
Di-n-octyl phthalate		400	U	48	400
Benzo[b]fluoranthene		65		6.0	40
Benzo[k]fluoranthene		40	U	5.6	40
Benzo[a]pyrene		30	J	4.9	40
Indeno[1,2,3-cd]pyrene		34	J	6.4	40
Dibenz(a,h)anthracene		40	U	4.8	40
Benzo[g,h,i]perylene		400	U	42	400
1,1'-Biphenyl		140	J	66	400
Acetophenone		400	U	59	400
Benzaldehyde		400	U	25	400
Caprolactam		400	U	55	400
Atrazine		400	U	75	400
2,2'-oxybis[1-chloropropane]		400	U	52	400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		38 - 105
Phenol-d5	69		41 - 118
Terphenyl-d14	72		16 - 151
2,4,6-Tribromophenol	38		10 - 120
2-Fluorophenol	75		37 - 125
2-Fluorobiphenyl	76		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-W(5')**

Lab Sample ID: 220-10982-14
Client Matrix: Solid
% Moisture: 23.7

Date Sampled: 12/09/2009 1332
Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10699.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0351			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		430	U	53	430
2-Chlorophenol		430	U	58	430
2-Methylphenol		430	U	62	430
4-Methylphenol		430	U	71	430
2-Nitrophenol		430	U	71	430
2,4-Dimethylphenol		430	U	69	430
2,4-Dichlorophenol		430	U	69	430
4-Chloro-3-methylphenol		430	U	73	430
2,4,6-Trichlorophenol		430	U	77	430
2,4,5-Trichlorophenol		430	U	83	430
2,4-Dinitrophenol		1300	U	92	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	210	1300
Pentachlorophenol		1300	U	210	1300
Bis(2-chloroethyl)ether		43	U	9.0	43
N-Nitrosodi-n-propylamine		43	U	5.7	43
Hexachloroethane		43	U	7.3	43
Nitrobenzene		43	U	9.7	43
Isophorone		430	U	50	430
Bis(2-chloroethoxy)methane		430	U	62	430
Naphthalene		430	U	63	430
4-Chloroaniline		430	U	54	430
Hexachlorobutadiene		88	U	18	88
2-Methylnaphthalene		430	U	63	430
Hexachlorocyclopentadiene		430	U	130	430
2-Chloronaphthalene		430	U	61	430
2-Nitroaniline		880	U	120	880
Dimethyl phthalate		430	U	58	430
Acenaphthylene		430	U	62	430
2,6-Dinitrotoluene		88	U	11	88
3-Nitroaniline		880	U	98	880
Acenaphthene		430	U	62	430
Dibenzofuran		430	U	65	430
2,4-Dinitrotoluene		88	U	13	88
Diethyl phthalate		430	U	58	430
4-Chlorophenyl phenyl ether		430	U	74	430
Fluorene		430	U	73	430
4-Nitroaniline		880	U	89	880
N-Nitrosodiphenylamine		430	U	71	430
4-Bromophenyl phenyl ether		430	U	77	430
Hexachlorobenzene		43	U	6.0	43
Phenanthrene		430	U	76	430
Anthracene		430	U	76	430
Carbazole		430	U	69	430
Di-n-butyl phthalate		430	U	66	430
Fluoranthene		430	U	72	430

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-W(5')**

Lab Sample ID: 220-10982-14 | Date Sampled: 12/09/2009 1332
Client Matrix: Solid | % Moisture: 23.7 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25358		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10699.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/14/2009 0351			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		430	U	75	430
Butyl benzyl phthalate		430	U	51	430
3,3'-Dichlorobenzidine		880	U	96	880
Benzo[a]anthracene		43	U	8.0	43
Chrysene		430	U	63	430
Bis(2-ethylhexyl) phthalate		160	J	57	430
Di-n-octyl phthalate		430	U	51	430
Benzo[b]fluoranthene		43	U	6.4	43
Benzo[k]fluoranthene		43	U	6.1	43
Benzo[a]pyrene		43	U	5.3	43
Indeno[1,2,3-cd]pyrene		43	U	6.9	43
Dibenz(a,h)anthracene		43	U	5.2	43
Benzo[g,h,i]perylene		430	U	46	430
1,1'-Biphenyl		430	U	71	430
Acetophenone		430	U	64	430
Benzaldehyde		430	U	27	430
Caprolactam		430	U	59	430
Atrazine		430	U	81	430
2,2'-oxybis[1-chloropropane]		430	U	57	430

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	73		38 - 105
Phenol-d5	65		41 - 118
Terphenyl-d14	71		16 - 151
2,4,6-Tribromophenol	49		10 - 120
2-Fluorophenol	74		37 - 125
2-Fluorobiphenyl	71		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-W(10')**

Lab Sample ID: 220-10982-15 | Date Sampled: 12/09/2009 1333
Client Matrix: Solid | % Moisture: 25.5 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10726.d
Dilution:	5.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1724			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		2200	U	270	2200
2-Chlorophenol		2200	U	300	2200
2-Methylphenol		2200	U	320	2200
4-Methylphenol		2200	U	360	2200
2-Nitrophenol		2200	U	360	2200
2,4-Dimethylphenol		2200	U	360	2200
2,4-Dichlorophenol		2200	U	360	2200
4-Chloro-3-methylphenol		2200	U	370	2200
2,4,6-Trichlorophenol		2200	U	400	2200
2,4,5-Trichlorophenol		2200	U	430	2200
2,4-Dinitrophenol		6700	U	470	6700
4-Nitrophenol		6700	U	570	6700
4,6-Dinitro-2-methylphenol		6700	U	1100	6700
Pentachlorophenol		6700	U	1100	6700
Bis(2-chloroethyl)ether		220	U	46	220
N-Nitrosodi-n-propylamine		220	U	29	220
Hexachloroethane		220	U	37	220
Nitrobenzene		220	U	50	220
Isophorone		2200	U	250	2200
Bis(2-chloroethoxy)methane		2200	U	320	2200
Naphthalene		2200	U	320	2200
4-Chloroaniline		2200	U	280	2200
Hexachlorobutadiene		450	U	90	450
2-Methylnaphthalene		2200	U	320	2200
Hexachlorocyclopentadiene		2200	U	650	2200
2-Chloronaphthalene		2200	U	310	2200
2-Nitroaniline		4500	U	610	4500
Dimethyl phthalate		2200	U	300	2200
Acenaphthylene		2200	U	320	2200
2,6-Dinitrotoluene		450	U	56	450
3-Nitroaniline		4500	U	500	4500
Acenaphthene		2200	U	320	2200
Dibenzofuran		2200	U	330	2200
2,4-Dinitrotoluene		450	U	65	450
Diethyl phthalate		2200	U	300	2200
4-Chlorophenyl phenyl ether		2200	U	380	2200
Fluorene		2700		380	2200
4-Nitroaniline		4500	U	460	4500
N-Nitrosodiphenylamine		2200	U	360	2200
4-Bromophenyl phenyl ether		2200	U	400	2200
Hexachlorobenzene		220	U	31	220
Phenanthrene		2200	U	390	2200
Anthracene		2200	U	390	2200
Carbazole		2200	U	350	2200
Di-n-butyl phthalate		2200	U	340	2200
Fluoranthene		2200	U	370	2200

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-W(10')**

Lab Sample ID: 220-10982-15 | Date Sampled: 12/09/2009 1333
Client Matrix: Solid | % Moisture: 25.5 | Date Received: 12/10/2009 1830

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25388		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25259		Lab File ID:	p10726.d
Dilution:	5.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/14/2009 1724			Final Weight/Volume:	1 mL
Date Prepared:	12/12/2009 0323			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		2200	U	380	2200
Butyl benzyl phthalate		2200	U	260	2200
3,3'-Dichlorobenzidine		4500	U	490	4500
Benzo[a]anthracene		220	U	41	220
Chrysene		2200	U	320	2200
Bis(2-ethylhexyl) phthalate		2200	U	290	2200
Di-n-octyl phthalate		2200	U	260	2200
Benzo[b]fluoranthene		220	U	33	220
Benzo[k]fluoranthene		220	U	31	220
Benzo[a]pyrene		220	U	27	220
Indeno[1,2,3-cd]pyrene		220	U	35	220
Dibenz(a,h)anthracene		220	U	27	220
Benzo[g,h,i]perylene		2200	U	230	2200
1,1'-Biphenyl		2200	U	370	2200
Acetophenone		2200	U	330	2200
Benzaldehyde		2200	U	140	2200
Caprolactam		2200	U	300	2200
Atrazine		2200	U	410	2200
2,2'-oxybis[1-chloropropane]		2200	U	290	2200

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	40		38 - 105
Phenol-d5	67		41 - 118
Terphenyl-d14	61		16 - 151
2,4,6-Tribromophenol	61		10 - 120
2-Fluorophenol	76		37 - 125
2-Fluorobiphenyl	68		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-E(5')**

Lab Sample ID: 220-10982-1
Client Matrix: Solid
% Moisture: 19.0
Date Sampled: 12/10/2009 0845
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34217		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Date Analyzed:	12/11/2009 1753			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.55	U	0.11	0.55
Aluminum		11100		5.5	27.3
Arsenic		123		0.11	0.55
Barium		76.6		0.16	0.55
Beryllium		0.62		0.16	0.55
Calcium		24900		16.4	54.7
Cadmium		0.53	J	0.11	0.55
Cobalt		5.9		0.11	0.55
Chromium		21.7		0.22	1.1
Copper		44.2		0.11	1.1
Iron		48500		8.7	27.3
Potassium		1660		5.5	54.7
Magnesium		5770		5.5	54.7
Manganese		307		0.22	1.4
Sodium		853		18.0	54.7
Nickel		19.5		0.11	0.55
Lead		162		0.11	0.55
Antimony		0.44	J	0.22	0.87
Selenium		8.1		0.33	1.1
Thallium		0.77	U	0.22	0.77
Vanadium		25.3		0.11	0.55
Zinc		139		0.55	5.5

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34179		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	12/11/2009 1750			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1043				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.41		0.0046	0.057

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-E(9.5')**

Lab Sample ID: 220-10982-2
Client Matrix: Solid
% Moisture: 40.4

Date Sampled: 12/10/2009 0846
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.27 g
Date Analyzed:	12/15/2009 1404			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.3		0.13	0.66
Aluminum		8470		6.6	33.0
Arsenic		2490		0.13	0.66
Barium		463		0.20	0.66
Beryllium		6.6		0.20	0.66
Calcium		37900		19.8	66.1
Cadmium		1.5		0.13	0.66
Cobalt		12.0		0.13	0.66
Chromium		75.2		0.26	1.3
Copper		346		0.13	1.3
Iron		83000		10.6	33.0
Potassium		1690		6.6	66.1
Magnesium		4770		6.6	66.1
Manganese		357		0.26	1.7
Sodium		448		21.8	66.1
Nickel		56.5		0.13	0.66
Lead		395		0.13	0.66
Antimony		9.1		0.26	1.1
Selenium		122		0.40	1.3
Thallium		15.5		0.26	0.93
Vanadium		92.6		0.13	0.66
Zinc		464		0.66	6.6

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34179		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	12/11/2009 1754			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1043				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.99		0.0062	0.077

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-E(6')**

Lab Sample ID: 220-10982-3
Client Matrix: Solid
% Moisture: 18.5

Date Sampled: 12/10/2009 0905
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	12/15/2009 1407			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.53	U	0.11	0.53
Aluminum		8040		5.3	26.7
Arsenic		58.0		0.11	0.53
Barium		66.7		0.16	0.53
Beryllium		0.46	J	0.16	0.53
Calcium		29300		16.0	53.4
Cadmium		0.44	J	0.11	0.53
Cobalt		4.4		0.11	0.53
Chromium		15.9		0.21	1.1
Copper		48.1		0.11	1.1
Iron		49700		8.5	26.7
Potassium		1150		5.3	53.4
Magnesium		5520		5.3	53.4
Manganese		360		0.21	1.3
Sodium		868		17.6	53.4
Nickel		15.1		0.11	0.53
Lead		85.6		0.11	0.53
Antimony		0.34	J	0.21	0.85
Selenium		5.7		0.32	1.1
Thallium		0.75	U	0.21	0.75
Vanadium		15.8		0.11	0.53
Zinc		114		0.53	5.3

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34179		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	12/11/2009 1755			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1043				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.31		0.0045	0.057

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-E(10')**

Lab Sample ID: 220-10982-4
Client Matrix: Solid
% Moisture: 25.4

Date Sampled: 12/10/2009 0906
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.23 g
Date Analyzed:	12/15/2009 1411			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.36	J	0.11	0.54
Aluminum		9380		5.4	27.2
Arsenic		831		0.11	0.54
Barium		1030		0.16	0.54
Beryllium		1.8		0.16	0.54
Calcium		47800		16.3	54.5
Cadmium		2.7		0.11	0.54
Cobalt		10.5		0.11	0.54
Chromium		44.9		0.22	1.1
Copper		74.2		0.11	1.1
Iron		30200		8.7	27.2
Potassium		1290		5.4	54.5
Magnesium		13400		5.4	54.5
Manganese		323		0.22	1.4
Sodium		473		18.0	54.5
Nickel		77.4		0.11	0.54
Lead		344		0.11	0.54
Antimony		1.4		0.22	0.87
Selenium		23.9		0.33	1.1
Thallium		2.4		0.22	0.76
Vanadium		49.2		0.11	0.54
Zinc		629		0.54	5.4

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34179		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	12/11/2009 1757			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1043				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.2		0.0050	0.063

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-N(5')**

Lab Sample ID: 220-10982-5
Client Matrix: Solid
% Moisture: 21.2

Date Sampled: 12/10/2009 0920
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Date Analyzed:	12/15/2009 1414			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.56	U	0.11	0.56
Aluminum		7430		5.6	28.1
Arsenic		20.3		0.11	0.56
Barium		102		0.17	0.56
Beryllium		0.41	J	0.17	0.56
Calcium		82000		16.9	56.2
Cadmium		0.29	J	0.11	0.56
Cobalt		4.2		0.11	0.56
Chromium		27.3		0.22	1.1
Copper		38.7		0.11	1.1
Iron		14200		9.0	28.1
Potassium		1610		5.6	56.2
Magnesium		12900		5.6	56.2
Manganese		181		0.22	1.4
Sodium		541		18.5	56.2
Nickel		36.7		0.11	0.56
Lead		74.8		0.11	0.56
Antimony		0.90	U	0.22	0.90
Selenium		1.6		0.34	1.1
Thallium		0.79	U	0.22	0.79
Vanadium		16.9		0.11	0.56
Zinc		60.7		0.56	5.6

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34179		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	12/11/2009 1758			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1043				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.25		0.0048	0.060

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-N(9.5')**

Lab Sample ID: 220-10982-6
Client Matrix: Solid
% Moisture: 38.1

Date Sampled: 12/10/2009 0922
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Date Analyzed:	12/15/2009 1418			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.90		0.15	0.74
Aluminum		11500		7.4	37.0
Arsenic		1980		0.15	0.74
Barium		582		0.22	0.74
Beryllium		4.5		0.22	0.74
Calcium		10000		22.2	74.1
Cadmium		0.89		0.15	0.74
Cobalt		17.3		0.15	0.74
Chromium		54.5		0.30	1.5
Copper		206		0.15	1.5
Iron		90900		11.9	37.0
Potassium		1540		7.4	74.1
Magnesium		1980		7.4	74.1
Manganese		327		0.30	1.9
Sodium		358		24.4	74.1
Nickel		61.2		0.15	0.74
Lead		204		0.15	0.74
Antimony		5.3		0.30	1.2
Selenium		65.6		0.44	1.5
Thallium		13.0		0.30	1.0
Vanadium		93.6		0.15	0.74
Zinc		269		0.74	7.4

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34179		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	12/11/2009 1759			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1043				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.9		0.0063	0.078

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-S(5')**

Lab Sample ID: 220-10982-7
Client Matrix: Solid
% Moisture: 23.4
Date Sampled: 12/10/2009 1050
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34204	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.00 g
Date Analyzed:	12/15/2009 1500		Final Weight/Volume: 1000 mL
Date Prepared:	12/11/2009 1357		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.65	U	0.13	0.65
Aluminum		7510		6.5	32.7
Arsenic		130		0.13	0.65
Barium		53.9		0.20	0.65
Beryllium		0.37	J	0.20	0.65
Calcium		55000		19.6	65.3
Cadmium		0.17	J	0.13	0.65
Cobalt		9.7		0.13	0.65
Chromium		24.3		0.26	1.3
Copper		20.7		0.13	1.3
Potassium		1370		6.5	65.3
Magnesium		2200		6.5	65.3
Manganese		1010		0.26	1.6
Sodium		602		21.6	65.3
Nickel		35.1		0.13	0.65
Lead		40.7		0.13	0.65
Antimony		0.56	J	0.26	1.0
Selenium		9.2		0.39	1.3
Thallium		0.27	J	0.26	0.91
Vanadium		15.0		0.13	0.65
Zinc		51.3		0.65	6.5

Method:	6020	Analysis Batch: 220-34318	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34204	Lab File ID: N/A
Dilution:	5.0		Initial Weight/Volume: 1.00 g
Date Analyzed:	12/15/2009 1534		Final Weight/Volume: 1000 mL
Date Prepared:	12/11/2009 1357		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		91200		52.2	163

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216	Instrument ID: MERC1
Preparation:	7471A	Prep Batch: 220-34179	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.62 g
Date Analyzed:	12/11/2009 1801		Final Weight/Volume: 50 mL
Date Prepared:	12/11/2009 1043		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.36		0.0051	0.063

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-S(9.5')**

Lab Sample ID: 220-10982-8 | Date Sampled: 12/10/2009 1052
Client Matrix: Solid | % Moisture: 38.1 | Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Date Analyzed:	12/15/2009 1504			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.28	J	0.13	0.67
Aluminum		9360		6.7	33.7
Arsenic		799		0.13	0.67
Barium		129		0.20	0.67
Beryllium		1.3		0.20	0.67
Calcium		40800		20.2	67.3
Cadmium		1.6		0.13	0.67
Cobalt		26.4		0.13	0.67
Chromium		156		0.27	1.3
Copper		39.9		0.13	1.3
Iron		39200		10.8	33.7
Potassium		549		6.7	67.3
Magnesium		63200		6.7	67.3
Manganese		366		0.27	1.7
Sodium		123		22.2	67.3
Nickel		358		0.13	0.67
Lead		214		0.13	0.67
Antimony		0.39	J	0.27	1.1
Selenium		14.1		0.40	1.3
Thallium		2.4		0.27	0.94
Vanadium		56.2		0.13	0.67
Zinc		1320		0.67	6.7

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34179		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	12/11/2009 1802			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1043				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.24		0.0060	0.075

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-S(5')**

Lab Sample ID: 220-10982-9
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 12/10/2009 1120
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.40 g
Date Analyzed:	12/15/2009 1517			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.43	U	0.086	0.43
Aluminum		6150		4.3	21.6
Arsenic		3.2		0.086	0.43
Barium		44.3		0.13	0.43
Beryllium		0.31	J	0.13	0.43
Calcium		1300		12.9	43.2
Cadmium		0.43	U	0.086	0.43
Cobalt		5.6		0.086	0.43
Chromium		17.9		0.17	0.86
Copper		14.8		0.086	0.86
Iron		12100		6.9	21.6
Potassium		1760		4.3	43.2
Magnesium		2100		4.3	43.2
Manganese		229		0.17	1.1
Sodium		84.3		14.2	43.2
Nickel		15.9		0.086	0.43
Lead		8.8		0.086	0.43
Antimony		0.69	U	0.17	0.69
Selenium		1.3		0.26	0.86
Thallium		0.60	U	0.17	0.60
Vanadium		23.1		0.086	0.43
Zinc		25.0		0.43	4.3

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34179		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	12/11/2009 1803			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1043				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	J	0.0047	0.058

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-S(9')**

Lab Sample ID: 220-10982-10
Client Matrix: Solid
% Moisture: 35.8
Date Sampled: 12/10/2009 1122
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Date Analyzed:	12/15/2009 1520			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.58	J	0.13	0.67
Aluminum		11500		6.7	33.6
Arsenic		564		0.13	0.67
Barium		578		0.20	0.67
Beryllium		2.8		0.20	0.67
Calcium		31600		20.1	67.1
Cadmium		3.5		0.13	0.67
Cobalt		13.9		0.13	0.67
Chromium		37.4		0.27	1.3
Copper		105		0.13	1.3
Iron		48900		10.7	33.6
Potassium		1410		6.7	67.1
Magnesium		6320		6.7	67.1
Manganese		267		0.27	1.7
Sodium		549		22.2	67.1
Nickel		76.0		0.13	0.67
Lead		429		0.13	0.67
Antimony		2.7		0.27	1.1
Selenium		19.4		0.40	1.3
Thallium		4.0		0.27	0.94
Vanadium		61.6		0.13	0.67
Zinc		1060		0.67	6.7

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34239		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	12/15/2009 1445			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.8		0.0059	0.074

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-7-20-N(5')**

Lab Sample ID: 220-10982-11
Client Matrix: Solid
% Moisture: 14.4

Date Sampled: 12/10/2009 1330
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34204		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.32 g
Date Analyzed:	12/15/2009 1524			Final Weight/Volume:	1000 mL
Date Prepared:	12/11/2009 1357				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.44	U	0.088	0.44
Aluminum		8980		4.4	22.1
Arsenic		28.2		0.088	0.44
Barium		112		0.13	0.44
Beryllium		0.53		0.13	0.44
Calcium		70200		13.3	44.2
Cadmium		0.34	J	0.088	0.44
Cobalt		6.1		0.088	0.44
Chromium		12.3		0.18	0.88
Copper		26.0		0.088	0.88
Iron		15000		7.1	22.1
Potassium		1550		4.4	44.2
Magnesium		3580		4.4	44.2
Manganese		209		0.18	1.1
Sodium		542		14.6	44.2
Nickel		13.0		0.088	0.44
Lead		143		0.088	0.44
Antimony		0.36	J	0.18	0.71
Selenium		1.6		0.27	0.88
Thallium		0.62	U	0.18	0.62
Vanadium		22.1		0.088	0.44
Zinc		181		0.44	4.4

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34239		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Date Analyzed:	12/15/2009 1446			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.42		0.0047	0.058

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-7-20-N(10')**

Lab Sample ID: 220-10982-12 | Date Sampled: 12/10/2009 1331
Client Matrix: Solid | % Moisture: 23.1 | Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34204	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.04 g
Date Analyzed:	12/15/2009 1527		Final Weight/Volume: 1000 mL
Date Prepared:	12/11/2009 1357		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.13	J	0.12	0.62
Aluminum		12800		6.2	31.2
Arsenic		146		0.12	0.62
Barium		220		0.19	0.62
Beryllium		0.91		0.19	0.62
Calcium		57500		18.8	62.5
Cadmium		2.3		0.12	0.62
Cobalt		11.6		0.12	0.62
Chromium		32.0		0.25	1.2
Copper		73.6		0.12	1.2
Iron		32200		10.0	31.2
Potassium		840		6.2	62.5
Magnesium		14300		6.2	62.5
Manganese		421		0.25	1.6
Sodium		676		20.6	62.5
Nickel		69.9		0.12	0.62
Lead		252		0.12	0.62
Antimony		1.6		0.25	1.0
Selenium		5.2		0.38	1.2
Thallium		2.1		0.25	0.88
Vanadium		29.3		0.12	0.62
Zinc		408		0.62	6.2

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315	Instrument ID: MERC1
Preparation:	7471A	Prep Batch: 220-34239	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.61 g
Date Analyzed:	12/15/2009 1450		Final Weight/Volume: 50 mL
Date Prepared:	12/14/2009 1146		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.81		0.0051	0.064

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-10-W(8')**

Lab Sample ID: 220-10982-13
Client Matrix: Solid
% Moisture: 17.5

Date Sampled: 12/09/2009 1330
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/15/2009 1531
Date Prepared: 12/11/2009 1357

Analysis Batch: 220-34318
Prep Batch: 220-34204

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.39 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.13	J	0.087	0.44
Aluminum		6340		4.4	21.8
Arsenic		128		0.087	0.44
Barium		139		0.13	0.44
Beryllium		0.43	J	0.13	0.44
Calcium		55700		13.1	43.6
Cadmium		0.96		0.087	0.44
Cobalt		5.5		0.087	0.44
Chromium		17.6		0.17	0.87
Copper		55.9		0.087	0.87
Iron		29500		7.0	21.8
Potassium		2350		4.4	43.6
Magnesium		21300		4.4	43.6
Manganese		229		0.17	1.1
Sodium		380		14.4	43.6
Nickel		25.1		0.087	0.44
Lead		303		0.087	0.44
Antimony		0.59	J	0.17	0.70
Selenium		3.4		0.26	0.87
Thallium		1.0		0.17	0.61
Vanadium		22.0		0.087	0.44
Zinc		227		0.44	4.4

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 10
Date Analyzed: 12/15/2009 1559
Date Prepared: 12/14/2009 1146

Analysis Batch: 220-34315
Prep Batch: 220-34239

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		5.6		0.045	0.57

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-W(5')**

Lab Sample ID: 220-10982-14 | Date Sampled: 12/09/2009 1332
Client Matrix: Solid | % Moisture: 23.7 | Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.47 g
Date Analyzed:	12/15/2009 1544			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.45	U	0.089	0.45
Aluminum		14700		4.5	22.3
Arsenic		213		0.089	0.45
Barium		60.5		0.13	0.45
Beryllium		0.84		0.13	0.45
Calcium		37400		13.4	44.6
Cadmium		0.23	J	0.089	0.45
Cobalt		7.3		0.089	0.45
Chromium		26.1		0.18	0.89
Copper		24.3		0.089	0.89
Potassium		2930		4.5	44.6
Magnesium		2250		4.5	44.6
Manganese		680		0.18	1.1
Sodium		1830		14.7	44.6
Nickel		27.2		0.089	0.45
Lead		53.9		0.089	0.45
Antimony		0.36	J	0.18	0.71
Selenium		14.9		0.27	0.89
Thallium		0.48	J	0.18	0.62
Vanadium		35.9		0.089	0.45
Zinc		68.0		0.45	4.5

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	1.47 g
Date Analyzed:	12/15/2009 1604			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		84100		35.7	112

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34239		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	12/15/2009 1453			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.35		0.0052	0.064

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10982-1

Client Sample ID: **PBL-8-5-W(10')**

Lab Sample ID: 220-10982-15
Client Matrix: Solid
% Moisture: 25.5

Date Sampled: 12/09/2009 1333
Date Received: 12/10/2009 1830

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.24 g
Date Analyzed:	12/15/2009 1547			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.57		0.11	0.54
Aluminum		11600		5.4	27.1
Arsenic		2100		0.11	0.54
Barium		356		0.16	0.54
Beryllium		3.4		0.16	0.54
Calcium		51500		16.2	54.1
Cadmium		1.1		0.11	0.54
Cobalt		10.6		0.11	0.54
Chromium		52.3		0.22	1.1
Copper		119		0.11	1.1
Iron		61200		8.7	27.1
Potassium		1460		5.4	54.1
Magnesium		13900		5.4	54.1
Manganese		281		0.22	1.4
Sodium		429		17.9	54.1
Nickel		51.4		0.11	0.54
Lead		471		0.11	0.54
Antimony		4.1		0.22	0.87
Selenium		50.4		0.32	1.1
Thallium		7.9		0.22	0.76
Vanadium		65.8		0.11	0.54
Zinc		349		0.54	5.4

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34239		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	12/15/2009 1454			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.57		0.0051	0.064

General Chemistry

Client Sample ID: **PBL-8-5-E(5')**

Lab Sample ID: 220-10982-1 Date Sampled: 12/10/2009 0845
Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	81.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-5-E(9.5')**

Lab Sample ID: 220-10982-2 Date Sampled: 12/10/2009 0846
Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	40.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	59.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-10-E(6')**

Lab Sample ID: 220-10982-3 Date Sampled: 12/10/2009 0905

Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	81.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-10-E(10')**

Lab Sample ID: 220-10982-4 Date Sampled: 12/10/2009 0906
Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	25.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	74.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-10-N(5')**

Lab Sample ID: 220-10982-5 Date Sampled: 12/10/2009 0920
Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	21.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	78.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-10-N(9.5')**

Lab Sample ID: 220-10982-6 Date Sampled: 12/10/2009 0922

Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	38.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	61.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-5-S(5')**

Lab Sample ID: 220-10982-7 Date Sampled: 12/10/2009 1050
Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	76.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-5-S(9.5')**

Lab Sample ID: 220-10982-8 Date Sampled: 12/10/2009 1052

Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	38.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	61.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-10-S(5')**

Lab Sample ID: 220-10982-9 Date Sampled: 12/10/2009 1120
Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	82.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-10-S(9')**

Lab Sample ID: 220-10982-10 Date Sampled: 12/10/2009 1122

Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	35.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	64.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-20-N(5')**

Lab Sample ID: 220-10982-11 Date Sampled: 12/10/2009 1330

Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	85.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-20-N(10')**

Lab Sample ID: 220-10982-12 Date Sampled: 12/10/2009 1331

Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	76.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-10-W(8')**

Lab Sample ID: 220-10982-13 Date Sampled: 12/09/2009 1330

Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	82.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-5-W(5')**

Lab Sample ID: 220-10982-14 Date Sampled: 12/09/2009 1332
Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	76.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-5-W(10')**

Lab Sample ID: 220-10982-15 Date Sampled: 12/09/2009 1333
Client Matrix: Solid Date Received: 12/10/2009 1830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	25.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	74.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-10982-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	J	Indicates an estimated value.
	U	Analyzed for but not detected.
Metals		
	J	Sample result is greater than the MDL but below the CRDL
	U	Indicates analyzed for but not detected.

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Erika Cozza	**Field Sampler:** Erika Cozza	**TAT Required (business days):** 48 hr.	**Lab PM/Contact:** JMP	**COC Number:** 10400
Company: Shaw E+I	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 10982	**Page** 1 of 2
Address: 92 North Ave.	**E-Mail:** Same	**Deliverable Type (Report/EDD):**	**Passed Rad Screen (Lab Use Only):** [ ] Yes [ ] No	**Carrier Tracking**
City, State, Zip: New Rochelle, NY 10801	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):** 0.8 Probe	**Notes:**
Phone: 914-633-9324	**WO #:**			
Email: erika.cozza@shawgrp.com	**Project #:** 126649	**State Regulatory QC Criteria Requirements:**		
Project Name/Site Location (State): Kent Ave.	**SSOW#:**			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

Page #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	Analysis (Attach list if more space is needed): BN 8270	TAL Metal	Comments
1	PBL-8-5-E(5')	12/10/09	845	S		1							X	X	
2	PBL-8-5-E(9.5')	12/10/09	846	S		1							X	X	
3	PBL-8-10-E(6')	12/10/09	905	S		1							X	X	
4	PBL-8-10-E(10')	12/10/09	906	S		1							X	X	
5	PBL-8-10-N(5')	12/10/09	920	S		1							X	X	
6	PBL-8-10-N(9.5')	12/10/09	922	S		1							X	X	
7	PBL-8-5-S(5')	12/10/09	1050	S		1							X	X	
8	PBL-8-5-S(9.5')	12/10/09	1052	S		1							X	X	
9	PBL-8-10-S(5')	12/10/09	1120	S		1							X	X	
10	PBL-8-10-S(9')	12/10/09	1122			1							X	X	

Relinquished by:	Date/Time: 12/10/09 1500	Company: Shaw	Received by:	Date/Time: 12/10/09 1500	Company: TAL
Relinquished by:	Date/Time: 12/10/09 1815	Company: TAL	Received by:	Date/Time: 12.10.09 1830	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

12/15/2009

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Sk Erika Cozza	**Field Sampler:** E. Cozza	**TAT Required (business days):** 48hr.	**Lab PM/Contact:** JMD
Company: Shaw Esl	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 10982
Address: 92 North Ave.	**E-Mail:** same	**Deliverable Type (Report/EDD):**	**Passed Rad Screen (Lab Use Only):** [X] Yes [ ] No
City, State, Zip: New Rochelle, NY 10801	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):** 0.8 probe
Phone: 914-633-9324	**WO #:**		
Email: erika.cozza@shawgrp.com	**Project #:** 126649	**State Regulatory QC Criteria Requirements:**	
Project Name/Site Location (State): Kent Ave.	**SSOW#:**		

COC Number: 10401
Page 2 of 2
Carrier Tracking Notes:

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

PA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	Analysis: BN 8270	Analysis: TAL Metals	Comments
1	PBL-7-20-N(5')	12/10/09	1330	S		1							X	X	
2	PBL-7-20-N(10')	12/10/09	1331	S		1							X	X	
3	PBL-8-10-W(8')	12/9/09	1330	S		1							X	X	
4	PBL-8-5-W(5')	12/9/09	1332	S		1							X	X	
5	PBL-8-5-W(10')	12/9/10	1333	S		1							X	X	

Relinquished by:	Date/Time: 12/10/09 1500	Company: Shaw	Received by:	Date/Time: 12/10/09 1500	Company: TAL
Relinquished by:	Date/Time: 12/10/09 1815	Company: TAL	Received by:	Date/Time: 12-10-09 1830	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

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12/15/2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 220-10940-1

Job Description: Con Edison, Kent Avenue Generating Stati

For:
Shaw Environmental & Infrastructure, Inc
92 North Avenue
New Rochelle, NY 10801

Attention: Ms. Erika Cozza

Approved for release.
Johanna Dubauskas
Project Manager I
12/11/2009 6:03 PM

Designee for
Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
12/11/2009

cc: Mr. Curtis A. Kraemer, P.G.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484
Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

METHOD SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL EDI	SW846 8270C	
Automated Soxhlet Extraction	TAL EDI		SW846 3541
Metals (ICP/MS)	TAL CT	SW846 6020	
Preparation, Metals	TAL CT		SW846 3050B
Mercury (CVAA)	TAL CT	SW846 7471A	
Preparation, Mercury	TAL CT		SW846 7471A
Percent Moisture	TAL CT	EPA Moisture	

Lab References:

TAL CT = TestAmerica Connecticut

TAL EDI = TestAmerica Edison

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Method	Analyst	Analyst ID
SW846 8260B	Humbert, Dave	DH
SW846 8270C	Shalayda, Monica	MS
SW846 8270C	Zhao, Chunxin	CZ
SW846 6020	Petronchak, Nestor	NP
SW846 7471A	Voytek, Joseph F	JFV
EPA Moisture	Capece, Bill	BC

SAMPLE SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-10940-1	PBL-1-10-W(10')	Solid	12/08/2009 1030	12/08/2009 1845
220-10940-2	PBL-1-5-W(9')	Solid	12/08/2009 1110	12/08/2009 1845
220-10940-3	PBL-1-5-S(12')	Solid	12/08/2009 1215	12/08/2009 1845
220-10940-4	PBL-1-10-S(10')	Solid	12/08/2009 1330	12/08/2009 1845
220-10940-5	PBL-1-5-N(12')	Solid	12/08/2009 1415	12/08/2009 1845

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-W(10')**

Lab Sample ID: 220-10940-1
Client Matrix: Solid
% Moisture: 19.6

Date Sampled: 12/08/2009 1030
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34193		Instrument ID:	MSV
Preparation:	5030B	Prep Batch: 220-34098		Lab File ID:	V8568.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	12/11/2009 0035			Final Weight/Volume:	10 mL
Date Prepared:	12/09/2009 1350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		620	U *	97	620
Chloromethane		620	U *	80	620
Vinyl chloride		620	U *	83	620
Bromomethane		620	U *	110	620
Chloroethane		620	U	100	620
Trichlorofluoromethane		620	U	80	620
1,1,2-Trichloro-1,2,2-trifluoroethane		620	U	86	620
1,1-Dichloroethene		620	U	93	620
Carbon disulfide		620	U	82	620
Methylene Chloride		620	U	100	620
Acetone		1600	U	300	1600
trans-1,2-Dichloroethene		620	U	66	620
Methyl acetate		620	U	86	620
1,1-Dichloroethane		620	U	90	620
cis-1,2-Dichloroethene		620	U	75	620
Chloroform		620	U	77	620
1,1,1-Trichloroethane		620	U	77	620
Carbon tetrachloride		620	U	96	620
Methyl Ethyl Ketone		220	J	140	620
Cyclohexane		620	U	120	620
Benzene		620	U	82	620
1,2-Dichloroethane		620	U	73	620
Trichloroethene		620	U	81	620
1,2-Dichloropropane		620	U	65	620
Bromodichloromethane		620	U	86	620
cis-1,3-Dichloropropene		620	U	76	620
trans-1,3-Dichloropropene		620	U	77	620
1,1,2-Trichloroethane		620	U	85	620
Toluene		1600		90	620
methyl isobutyl ketone		620	U	100	620
Tetrachloroethene		620	U	100	620
Dibromochloromethane		620	U	97	620
2-Hexanone		620	U	160	620
Chlorobenzene		620	U	77	620
Ethylbenzene		3100		65	620
Styrene		620	U	100	620
Bromoform		620	U	100	620
Isopropylbenzene		220	J	88	620
1,1,2,2-Tetrachloroethane		620	U	82	620
1,3-Dichlorobenzene		620	U	75	620
1,4-Dichlorobenzene		620	U	77	620
1,2-Dichlorobenzene		620	U	75	620
1,2-Dibromo-3-Chloropropane		620	U	72	620
1,2,4-Trichlorobenzene		620	U	110	620
Xylenes, Total		3000		260	620
1,2-Dibromoethane		620	U	62	620

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-W(10')**

Lab Sample ID: 220-10940-1
Client Matrix: Solid
% Moisture: 19.6

Date Sampled: 12/08/2009 1030
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34193		Instrument ID:	MSV
Preparation:	5030B	Prep Batch: 220-34098		Lab File ID:	V8568.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	12/11/2009 0035			Final Weight/Volume:	10 mL
Date Prepared:	12/09/2009 1350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Methyl tert-butyl ether		620	U	62	620
Methylcyclohexane		620	U	41	620

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	103		53 - 121
1,2-Dichloroethane-d4 (Surr)	107		52 - 119
Toluene-d8 (Surr)	103		55 - 121
4-Bromofluorobenzene	106		63 - 128

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-W(9')**

Lab Sample ID: 220-10940-2
Client Matrix: Solid
% Moisture: 18.4

Date Sampled: 12/08/2009 1110
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34193		Instrument ID:	MSV
Preparation:	5030B	Prep Batch: 220-34098		Lab File ID:	V8571.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	12/11/2009 0214			Final Weight/Volume:	10 mL
Date Prepared:	12/09/2009 1350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		610	U *	96	610
Chloromethane		610	U *	78	610
Vinyl chloride		610	U *	82	610
Bromomethane		610	U *	110	610
Chloroethane		610	U	98	610
Trichlorofluoromethane		610	U	78	610
1,1,2-Trichloro-1,2,2-trifluoroethane		610	U	85	610
1,1-Dichloroethene		610	U	92	610
Carbon disulfide		130	J	81	610
Methylene Chloride		610	U	99	610
Acetone		1500	U	290	1500
trans-1,2-Dichloroethene		610	U	65	610
Methyl acetate		610	U	85	610
1,1-Dichloroethane		610	U	88	610
cis-1,2-Dichloroethene		610	U	74	610
Chloroform		610	U	76	610
1,1,1-Trichloroethane		610	U	76	610
Carbon tetrachloride		610	U	94	610
Methyl Ethyl Ketone		180	J	130	610
Cyclohexane		610	U	120	610
Benzene		97	J	81	610
1,2-Dichloroethane		610	U	72	610
Trichloroethene		610	U	80	610
1,2-Dichloropropane		610	U	64	610
Bromodichloromethane		610	U	85	610
cis-1,3-Dichloropropene		610	U	75	610
trans-1,3-Dichloropropene		610	U	76	610
1,1,2-Trichloroethane		610	U	83	610
Toluene		380	J	88	610
methyl isobutyl ketone		610	U	100	610
Tetrachloroethene		610	U	100	610
Dibromochloromethane		610	U	96	610
2-Hexanone		610	U	160	610
Chlorobenzene		610	U	76	610
Ethylbenzene		2800		64	610
Styrene		190	J	98	610
Bromoform		610	U	98	610
Isopropylbenzene		300	J	87	610
1,1,2,2-Tetrachloroethane		610	U	81	610
1,3-Dichlorobenzene		610	U	74	610
1,4-Dichlorobenzene		610	U	76	610
1,2-Dichlorobenzene		610	U	74	610
1,2-Dibromo-3-Chloropropane		610	U	71	610
1,2,4-Trichlorobenzene		610	U	110	610
Xylenes, Total		670		260	610
1,2-Dibromoethane		610	U	61	610

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-W(9')**

Lab Sample ID: 220-10940-2
Client Matrix: Solid
% Moisture: 18.4

Date Sampled: 12/08/2009 1110
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34193		Instrument ID:	MSV
Preparation:	5030B	Prep Batch: 220-34098		Lab File ID:	V8571.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	12/11/2009 0214			Final Weight/Volume:	10 mL
Date Prepared:	12/09/2009 1350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Methyl tert-butyl ether		610	U	61	610
Methylcyclohexane		47	J	40	610

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	96		53 - 121
1,2-Dichloroethane-d4 (Surr)	91		52 - 119
Toluene-d8 (Surr)	101		55 - 121
4-Bromofluorobenzene	105		63 - 128

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-S(12')**

Lab Sample ID: 220-10940-3
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 12/08/2009 1215
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34193		Instrument ID:	MSV
Preparation:	5030B	Prep Batch: 220-34098		Lab File ID:	V8570.D
Dilution:	2.0			Initial Weight/Volume:	5 g
Date Analyzed:	12/11/2009 0141			Final Weight/Volume:	10 mL
Date Prepared:	12/09/2009 1350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		1200	U *	190	1200
Chloromethane		1200	U *	150	1200
Vinyl chloride		1200	U *	160	1200
Bromomethane		1200	U *	220	1200
Chloroethane		1200	U	190	1200
Trichlorofluoromethane		1200	U	150	1200
1,1,2-Trichloro-1,2,2-trifluoroethane		1200	U	170	1200
1,1-Dichloroethene		1200	U	180	1200
Carbon disulfide		200	J	160	1200
Methylene Chloride		1200	U	200	1200
Acetone		3000	U	580	3000
trans-1,2-Dichloroethene		1200	U	130	1200
Methyl acetate		1200	U	170	1200
1,1-Dichloroethane		1200	U	170	1200
cis-1,2-Dichloroethene		1200	U	140	1200
Chloroform		1200	U	150	1200
1,1,1-Trichloroethane		1200	U	150	1200
Carbon tetrachloride		1200	U	190	1200
Methyl Ethyl Ketone		400	J	270	1200
Cyclohexane		1200	U	230	1200
Benzene		380	J	160	1200
1,2-Dichloroethane		1200	U	140	1200
Trichloroethene		1200	U	160	1200
1,2-Dichloropropane		1200	U	130	1200
Bromodichloromethane		1200	U	170	1200
cis-1,3-Dichloropropene		1200	U	150	1200
trans-1,3-Dichloropropene		1200	U	150	1200
1,1,2-Trichloroethane		1200	U	160	1200
Toluene		5800		170	1200
methyl isobutyl ketone		1200	U	200	1200
Tetrachloroethene		1200	U	200	1200
Dibromochloromethane		1200	U	190	1200
2-Hexanone		1200	U	310	1200
Chlorobenzene		1200	U	150	1200
Ethylbenzene		20000		130	1200
Styrene		1200	U	190	1200
Bromoform		1200	U	190	1200
Isopropylbenzene		2400		170	1200
1,1,2,2-Tetrachloroethane		1200	U	160	1200
1,3-Dichlorobenzene		1200	U	140	1200
1,4-Dichlorobenzene		1200	U	150	1200
1,2-Dichlorobenzene		1200	U	140	1200
1,2-Dibromo-3-Chloropropane		1200	U	140	1200
1,2,4-Trichlorobenzene		1200	U	210	1200
Xylenes, Total		21000		510	1200
1,2-Dibromoethane		1200	U	120	1200

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-S(12')**

Lab Sample ID: 220-10940-3
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 12/08/2009 1215
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34193		Instrument ID:	MSV
Preparation:	5030B	Prep Batch: 220-34098		Lab File ID:	V8570.D
Dilution:	2.0			Initial Weight/Volume:	5 g
Date Analyzed:	12/11/2009 0141			Final Weight/Volume:	10 mL
Date Prepared:	12/09/2009 1350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Methyl tert-butyl ether		1200	U	120	1200
Methylcyclohexane		1200	U	80	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	96		53 - 121
1,2-Dichloroethane-d4 (Surr)	95		52 - 119
Toluene-d8 (Surr)	104		55 - 121
4-Bromofluorobenzene	101		63 - 128

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-S(10')**

Lab Sample ID: 220-10940-4
Client Matrix: Solid
% Moisture: 21.3

Date Sampled: 12/08/2009 1330
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34193		Instrument ID:	MSV
Preparation:	5030B	Prep Batch: 220-34098		Lab File ID:	V8569.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	12/11/2009 0108			Final Weight/Volume:	10 mL
Date Prepared:	12/09/2009 1350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		640	U *	99	640
Chloromethane		640	U *	81	640
Vinyl chloride		640	U *	85	640
Bromomethane		640	U *	120	640
Chloroethane		640	U	100	640
Trichlorofluoromethane		640	U	81	640
1,1,2-Trichloro-1,2,2-trifluoroethane		640	U	88	640
1,1-Dichloroethene		640	U	95	640
Carbon disulfide		84	J	84	640
Methylene Chloride		640	U	100	640
Acetone		1600	U	300	1600
trans-1,2-Dichloroethene		640	U	67	640
Methyl acetate		640	U	88	640
1,1-Dichloroethane		640	U	91	640
cis-1,2-Dichloroethene		640	U	76	640
Chloroform		640	U	79	640
1,1,1-Trichloroethane		640	U	79	640
Carbon tetrachloride		640	U	98	640
Methyl Ethyl Ketone		340	J	140	640
Cyclohexane		640	U	120	640
Benzene		170	J	84	640
1,2-Dichloroethane		640	U	75	640
Trichloroethene		640	U	83	640
1,2-Dichloropropane		640	U	66	640
Bromodichloromethane		640	U	88	640
cis-1,3-Dichloropropene		640	U	77	640
trans-1,3-Dichloropropene		640	U	79	640
1,1,2-Trichloroethane		640	U	86	640
Toluene		7200		91	640
methyl isobutyl ketone		640	U	100	640
Tetrachloroethene		640	U	100	640
Dibromochloromethane		640	U	99	640
2-Hexanone		640	U	170	640
Chlorobenzene		640	U	79	640
Ethylbenzene		7700		66	640
Styrene		2400		100	640
Bromoform		640	U	100	640
Isopropylbenzene		270	J	90	640
1,1,2,2-Tetrachloroethane		640	U	84	640
1,3-Dichlorobenzene		640	U	76	640
1,4-Dichlorobenzene		640	U	79	640
1,2-Dichlorobenzene		640	U	76	640
1,2-Dibromo-3-Chloropropane		640	U	74	640
1,2,4-Trichlorobenzene		640	U	110	640
Xylenes, Total		11000		270	640
1,2-Dibromoethane		640	U	64	640

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-S(10')**

Lab Sample ID: 220-10940-4
Client Matrix: Solid
% Moisture: 21.3

Date Sampled: 12/08/2009 1330
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34193		Instrument ID:	MSV
Preparation:	5030B	Prep Batch: 220-34098		Lab File ID:	V8569.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Date Analyzed:	12/11/2009 0108			Final Weight/Volume:	10 mL
Date Prepared:	12/09/2009 1350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Methyl tert-butyl ether		640	U	64	640
Methylcyclohexane		640	U	42	640

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	100		53 - 121
1,2-Dichloroethane-d4 (Surr)	103		52 - 119
Toluene-d8 (Surr)	105		55 - 121
4-Bromofluorobenzene	106		63 - 128

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-N(12')**

Lab Sample ID: 220-10940-5
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 12/08/2009 1415
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 12/10/2009 1403
Date Prepared: 12/10/2009 1403

Analysis Batch: 220-34206

Instrument ID: MSO
Lab File ID: O4824.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		28	U *	1.9	28
Chloromethane		28	U	4.3	28
Vinyl chloride		28	U	1.3	28
Bromomethane		28	U *	11	28
Chloroethane		28	U	5.4	28
Trichlorofluoromethane		28	U	0.83	28
1,1-Dichloroethene		28	U	3.2	28
1,1,2-Trichloro-1,2,2-trifluoroethane		28	U	4.3	28
Acetone		24	J	12	110
Carbon disulfide		28	U	2.3	28
Methyl acetate		28	U	2.4	28
Methylene Chloride		110	U	6.0	110
trans-1,2-Dichloroethene		28	U	2.1	28
Methyl tert-butyl ether		28	U	1.2	28
1,1-Dichloroethane		28	U	1.7	28
cis-1,2-Dichloroethene		28	U	2.0	28
Methyl Ethyl Ketone		55	U	8.8	55
Chloroform		28	U	1.9	28
1,1,1-Trichloroethane		28	U	2.9	28
Cyclohexane		28	U	3.8	28
Carbon tetrachloride		28	U	5.2	28
Benzene		340		3.1	28
1,2-Dichloroethane		28	U	3.2	28
Trichloroethene		28	U	4.5	28
Methylcyclohexane		28	U	1.8	28
1,2-Dichloropropane		28	U	3.7	28
Bromodichloromethane		28	U	1.7	28
cis-1,3-Dichloropropene		28	U	3.1	28
methyl isobutyl ketone		28	U	3.0	28
Toluene		70		0.41	28
trans-1,3-Dichloropropene		28	U	1.5	28
1,1,2-Trichloroethane		28	U	2.0	28
Tetrachloroethene		28	U	4.5	28
2-Hexanone		55	U	6.6	55
Dibromochloromethane		28	U	1.9	28
1,2-Dibromoethane		28	U	4.2	28
Chlorobenzene		28	U	3.2	28
Ethylbenzene		680		3.9	28
Xylenes, Total		520		2.7	28
Styrene		8.8	J	0.83	28
Bromoform		28	U	3.4	28
Isopropylbenzene		33		1.0	28
1,1,2,2-Tetrachloroethane		28	U	2.9	28
1,3-Dichlorobenzene		28	U	1.2	28
1,4-Dichlorobenzene		28	U	3.7	28
1,2-Dichlorobenzene		28	U	1.3	28

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-N(12')**

Lab Sample ID: 220-10940-5
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 12/08/2009 1415
Date Received: 12/08/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34206	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O4824.D
Dilution:	5.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/10/2009 1403		Final Weight/Volume: 5 mL
Date Prepared:	12/10/2009 1403		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		55	U	25	55
1,2,4-Trichlorobenzene		28	U	4.1	28

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82		59 - 132
4-Bromofluorobenzene	95		34 - 124
Dibromofluoromethane	82		59 - 123
Toluene-d8 (Surr)	88		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-W(10')**

Lab Sample ID: 220-10940-1
Client Matrix: Solid
% Moisture: 19.6
Date Sampled: 12/08/2009 1030
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25203		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	p10622.d
Dilution:	1.0			Initial Weight/Volume:	14.95 g
Date Analyzed:	12/11/2009 0920			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		410	U	51	410
2-Chlorophenol		410	U	55	410
2-Methylphenol		410	U	59	410
4-Methylphenol		410	U	68	410
2-Nitrophenol		410	U	68	410
2,4-Dimethylphenol		410	U	66	410
2,4-Dichlorophenol		410	U	66	410
4-Chloro-3-methylphenol		410	U	69	410
2,4,6-Trichlorophenol		410	U	74	410
2,4,5-Trichlorophenol		410	U	79	410
2,4-Dinitrophenol		1200	U	88	1200
4-Nitrophenol		1200	U	110	1200
4,6-Dinitro-2-methylphenol		1200	U	200	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		41	U	8.6	41
N-Nitrosodi-n-propylamine		41	U	5.5	41
Hexachloroethane		41	U	7.0	41
Nitrobenzene		41	U	9.2	41
Isophorone		410	U	47	410
Bis(2-chloroethoxy)methane		410	U	59	410
Naphthalene		2200		60	410
4-Chloroaniline		410	U	52	410
Hexachlorobutadiene		84	U	17	84
2-Methylnaphthalene		740		60	410
Hexachlorocyclopentadiene		410	U	120	410
2-Chloronaphthalene		410	U	58	410
2-Nitroaniline		840	U	110	840
Dimethyl phthalate		410	U	56	410
Acenaphthylene		410	U	59	410
2,6-Dinitrotoluene		84	U	10	84
3-Nitroaniline		840	U	93	840
Acenaphthene		690		59	410
Dibenzofuran		410	U	62	410
2,4-Dinitrotoluene		84	U	12	84
Diethyl phthalate		410	U	55	410
4-Chlorophenyl phenyl ether		410	U	71	410
Fluorene		250	J	70	410
4-Nitroaniline		840	U	85	840
N-Nitrosodiphenylamine		410	U	67	410
4-Bromophenyl phenyl ether		410	U	74	410
Hexachlorobenzene		41	U	5.7	41
Phenanthrene		450		72	410
Anthracene		110	J	73	410
Carbazole		410	U	66	410
Di-n-butyl phthalate		410	U	63	410
Fluoranthene		84	J	69	410

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-W(10')**

Lab Sample ID: 220-10940-1
Client Matrix: Solid
% Moisture: 19.6

Date Sampled: 12/08/2009 1030
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25203		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	p10622.d
Dilution:	1.0			Initial Weight/Volume:	14.95 g
Date Analyzed:	12/11/2009 0920			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		120	J	71	410
Butyl benzyl phthalate		410	U	48	410
3,3'-Dichlorobenzidine		840	U	91	840
Benzo[a]anthracene		41	U	7.6	41
Chrysene		410	U	60	410
Bis(2-ethylhexyl) phthalate		410	U	55	410
Di-n-octyl phthalate		410	U	49	410
Benzo[b]fluoranthene		19	J	6.1	41
Benzo[k]fluoranthene		41	U	5.8	41
Benzo[a]pyrene		19	J	5.1	41
Indeno[1,2,3-cd]pyrene		41	U	6.6	41
Dibenz(a,h)anthracene		41	U	5.0	41
Benzo[g,h,i]perylene		410	U	44	410
1,1'-Biphenyl		110	J	68	410
Acetophenone		410	U	61	410
Benzaldehyde		410	U	26	410
Caprolactam		410	U	57	410
Atrazine		410	U	77	410
2,2'-oxybis[1-chloropropane]		410	U	54	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		38 - 105
Phenol-d5	69		41 - 118
Terphenyl-d14	69		16 - 151
2,4,6-Tribromophenol	56		10 - 120
2-Fluorophenol	72		37 - 125
2-Fluorobiphenyl	70		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-W(9')**

Lab Sample ID: 220-10940-2
Client Matrix: Solid
% Moisture: 18.4

Date Sampled: 12/08/2009 1110
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25203		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	p10623.d
Dilution:	1.0			Initial Weight/Volume:	14.97 g
Date Analyzed:	12/11/2009 0947			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		410	U	50	410
2-Chlorophenol		410	U	54	410
2-Methylphenol		410	U	58	410
4-Methylphenol		410	U	67	410
2-Nitrophenol		410	U	67	410
2,4-Dimethylphenol		410	U	65	410
2,4-Dichlorophenol		410	U	65	410
4-Chloro-3-methylphenol		410	U	68	410
2,4,6-Trichlorophenol		410	U	73	410
2,4,5-Trichlorophenol		410	U	78	410
2,4-Dinitrophenol		1200	U	86	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		41	U	8.5	41
N-Nitrosodi-n-propylamine		41	U	5.4	41
Hexachloroethane		41	U	6.9	41
Nitrobenzene		41	U	9.1	41
Isophorone		410	U	47	410
Bis(2-chloroethoxy)methane		410	U	58	410
Naphthalene		7800		59	410
4-Chloroaniline		410	U	51	410
Hexachlorobutadiene		82	U	16	82
2-Methylnaphthalene		3700		59	410
Hexachlorocyclopentadiene		410	U	120	410
2-Chloronaphthalene		410	U	57	410
2-Nitroaniline		820	U	110	820
Dimethyl phthalate		410	U	55	410
Acenaphthylene		1700		58	410
2,6-Dinitrotoluene		82	U	10	82
3-Nitroaniline		820	U	92	820
Acenaphthene		1200		58	410
Dibenzofuran		160	J	61	410
2,4-Dinitrotoluene		82	U	12	82
Diethyl phthalate		410	U	55	410
4-Chlorophenyl phenyl ether		410	U	70	410
Fluorene		1300		69	410
4-Nitroaniline		820	U	84	820
N-Nitrosodiphenylamine		410	U	66	410
4-Bromophenyl phenyl ether		410	U	72	410
Hexachlorobenzene		41	U	5.6	41
Phenanthrene		3600		71	410
Anthracene		960		72	410
Carbazole		410	U	65	410
Di-n-butyl phthalate		410	U	62	410
Fluoranthene		900		68	410

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-W(9')**

Lab Sample ID: 220-10940-2
Client Matrix: Solid
% Moisture: 18.4

Date Sampled: 12/08/2009 1110
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25203		Instrument ID:	BNAMS10
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	p10623.d
Dilution:	1.0			Initial Weight/Volume:	14.97 g
Date Analyzed:	12/11/2009 0947			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		1500		70	410
Butyl benzyl phthalate		410	U	47	410
3,3'-Dichlorobenzidine		820	U	90	820
Benzo[a]anthracene		510		7.5	41
Chrysene		480		59	410
Bis(2-ethylhexyl) phthalate		410	U	54	410
Di-n-octyl phthalate		410	U	48	410
Benzo[b]fluoranthene		210		6.0	41
Benzo[k]fluoranthene		120		5.7	41
Benzo[a]pyrene		320		5.0	41
Indeno[1,2,3-cd]pyrene		82		6.5	41
Dibenz(a,h)anthracene		41	U	4.9	41
Benzo[g,h,i]perylene		120	J	43	410
1,1'-Biphenyl		450		67	410
Acetophenone		410	U	60	410
Benzaldehyde		410	U	25	410
Caprolactam		410	U	56	410
Atrazine		410	U	76	410
2,2'-oxybis[1-chloropropane]		410	U	53	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		38 - 105
Phenol-d5	66		41 - 118
Terphenyl-d14	63		16 - 151
2,4,6-Tribromophenol	63		10 - 120
2-Fluorophenol	70		37 - 125
2-Fluorobiphenyl	72		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-S(12')**

Lab Sample ID: 220-10940-3
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 12/08/2009 1215
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25204		Instrument ID:	BNAMS11
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	z6558.d
Dilution:	1.0			Initial Weight/Volume:	14.96 g
Date Analyzed:	12/11/2009 1152			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		400	U	49	400
2-Chlorophenol		400	U	53	400
2-Methylphenol		400	U	58	400
4-Methylphenol		400	U	66	400
2-Nitrophenol		400	U	66	400
2,4-Dimethylphenol		400	U	64	400
2,4-Dichlorophenol		400	U	64	400
4-Chloro-3-methylphenol		400	U	67	400
2,4,6-Trichlorophenol		400	U	72	400
2,4,5-Trichlorophenol		400	U	77	400
2,4-Dinitrophenol		1200	U	85	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		40	U	8.3	40
N-Nitrosodi-n-propylamine		40	U	5.3	40
Hexachloroethane		40	U	6.8	40
Nitrobenzene		40	U	9.0	40
Isophorone		400	U	46	400
Bis(2-chloroethoxy)methane		400	U	57	400
Naphthalene		2300		59	400
4-Chloroaniline		400	U	50	400
Hexachlorobutadiene		81	U	16	81
2-Methylnaphthalene		630		58	400
Hexachlorocyclopentadiene		400	U	120	400
2-Chloronaphthalene		400	U	57	400
2-Nitroaniline		810	U	110	810
Dimethyl phthalate		400	U	54	400
Acenaphthylene		61	J	57	400
2,6-Dinitrotoluene		81	U	10	81
3-Nitroaniline		810	U	91	810
Acenaphthene		880		57	400
Dibenzofuran		400	U	60	400
2,4-Dinitrotoluene		81	U	12	81
Diethyl phthalate		400	U	54	400
4-Chlorophenyl phenyl ether		400	U	69	400
Fluorene		500		68	400
4-Nitroaniline		810	U	83	810
N-Nitrosodiphenylamine		400	U	65	400
4-Bromophenyl phenyl ether		400	U	71	400
Hexachlorobenzene		40	U	5.6	40
Phenanthrene		1600		70	400
Anthracene		490		71	400
Carbazole		400	U	64	400
Di-n-butyl phthalate		400	U	61	400
Fluoranthene		430		67	400

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-S(12')**

Lab Sample ID: 220-10940-3
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 12/08/2009 1215
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25204	Instrument ID: BNAMS11
Preparation:	3541	Prep Batch: 460-25104	Lab File ID: z6558.d
Dilution:	1.0		Initial Weight/Volume: 14.96 g
Date Analyzed:	12/11/2009 1152		Final Weight/Volume: 1 mL
Date Prepared:	12/10/2009 1751		Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		660		69	400
Butyl benzyl phthalate		400	U	47	400
3,3'-Dichlorobenzidine		810	U	89	810
Benzo[a]anthracene		230		7.4	40
Chrysene		210	J	58	400
Bis(2-ethylhexyl) phthalate		400	U	53	400
Di-n-octyl phthalate		400	U	48	400
Benzo[b]fluoranthene		110		6.0	40
Benzo[k]fluoranthene		60		5.6	40
Benzo[a]pyrene		160		4.9	40
Indeno[1,2,3-cd]pyrene		35	J	6.4	40
Dibenz(a,h)anthracene		40	U	4.8	40
Benzo[g,h,i]perylene		400	U	42	400
1,1'-Biphenyl		150	J	66	400
Acetophenone		400	U	59	400
Benzaldehyde		400	U	25	400
Caprolactam		400	U	55	400
Atrazine		400	U	75	400
2,2'-oxybis[1-chloropropane]		400	U	53	400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	66		38 - 105
Phenol-d5	66		41 - 118
Terphenyl-d14	65		16 - 151
2,4,6-Tribromophenol	61		10 - 120
2-Fluorophenol	66		37 - 125
2-Fluorobiphenyl	64		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-S(10')**

Lab Sample ID: 220-10940-4
Client Matrix: Solid
% Moisture: 21.3

Date Sampled: 12/08/2009 1330
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25204		Instrument ID:	BNAMS11
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	z6557.d
Dilution:	1.0			Initial Weight/Volume:	15.04 g
Date Analyzed:	12/11/2009 1127			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		420	U	51	420
2-Chlorophenol		420	U	56	420
2-Methylphenol		420	U	60	420
4-Methylphenol		420	U	69	420
2-Nitrophenol		420	U	69	420
2,4-Dimethylphenol		420	U	67	420
2,4-Dichlorophenol		420	U	67	420
4-Chloro-3-methylphenol		420	U	70	420
2,4,6-Trichlorophenol		420	U	75	420
2,4,5-Trichlorophenol		420	U	81	420
2,4-Dinitrophenol		1300	U	89	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	200	1300
Pentachlorophenol		1300	U	200	1300
Bis(2-chloroethyl)ether		42	U	8.7	42
N-Nitrosodi-n-propylamine		42	U	5.5	42
Hexachloroethane		42	U	7.1	42
Nitrobenzene		42	U	9.4	42
Isophorone		420	U	48	420
Bis(2-chloroethoxy)methane		420	U	60	420
Naphthalene		760		61	420
4-Chloroaniline		420	U	53	420
Hexachlorobutadiene		85	U	17	85
2-Methylnaphthalene		440		61	420
Hexachlorocyclopentadiene		420	U	120	420
2-Chloronaphthalene		420	U	59	420
2-Nitroaniline		850	U	110	850
Dimethyl phthalate		420	U	57	420
Acenaphthylene		130	J	60	420
2,6-Dinitrotoluene		85	U	11	85
3-Nitroaniline		850	U	95	850
Acenaphthene		250	J	60	420
Dibenzofuran		420	U	63	420
2,4-Dinitrotoluene		85	U	12	85
Diethyl phthalate		420	U	56	420
4-Chlorophenyl phenyl ether		420	U	72	420
Fluorene		210	J	71	420
4-Nitroaniline		850	U	87	850
N-Nitrosodiphenylamine		420	U	68	420
4-Bromophenyl phenyl ether		420	U	75	420
Hexachlorobenzene		42	U	5.8	42
Phenanthrene		600		73	420
Anthracene		160	J	74	420
Carbazole		420	U	67	420
Di-n-butyl phthalate		420	U	64	420
Fluoranthene		160	J	70	420

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-S(10')**

Lab Sample ID: 220-10940-4

Client Matrix: Solid

% Moisture: 21.3

Date Sampled: 12/08/2009 1330

Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25204		Instrument ID:	BNAMS11
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	z6557.d
Dilution:	1.0			Initial Weight/Volume:	15.04 g
Date Analyzed:	12/11/2009 1127			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		270	J	72	420
Butyl benzyl phthalate		420	U	49	420
3,3'-Dichlorobenzidine		850	U	93	850
Benzo[a]anthracene		130		7.8	42
Chrysene		110	J	61	420
Bis(2-ethylhexyl) phthalate		420	U	56	420
Di-n-octyl phthalate		420	U	50	420
Benzo[b]fluoranthene		130		6.2	42
Benzo[k]fluoranthene		69		5.9	42
Benzo[a]pyrene		160		5.2	42
Indeno[1,2,3-cd]pyrene		100		6.7	42
Dibenz(a,h)anthracene		26	J	5.0	42
Benzo[g,h,i]perylene		87	J	44	420
1,1'-Biphenyl		74	J	69	420
Acetophenone		420	U	62	420
Benzaldehyde		420	U	26	420
Caprolactam		420	U	58	420
Atrazine		420	U	78	420
2,2'-oxybis[1-chloropropane]		420	U	55	420

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	72		38 - 105
Phenol-d5	67		41 - 118
Terphenyl-d14	73		16 - 151
2,4,6-Tribromophenol	64		10 - 120
2-Fluorophenol	71		37 - 125
2-Fluorobiphenyl	67		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-N(12')**

Lab Sample ID: 220-10940-5
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 12/08/2009 1415
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25204		Instrument ID:	BNAMS11
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	z6562.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/11/2009 1330			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		360	U	44	360
2-Chlorophenol		360	U	49	360
2-Methylphenol		360	U	52	360
4-Methylphenol		360	U	60	360
2-Nitrophenol		360	U	60	360
2,4-Dimethylphenol		360	U	58	360
2,4-Dichlorophenol		360	U	58	360
4-Chloro-3-methylphenol		360	U	61	360
2,4,6-Trichlorophenol		360	U	65	360
2,4,5-Trichlorophenol		360	U	70	360
2,4-Dinitrophenol		1100	U	77	1100
4-Nitrophenol		1100	U	93	1100
4,6-Dinitro-2-methylphenol		1100	U	170	1100
Pentachlorophenol		1100	U	180	1100
Bis(2-chloroethyl)ether		36	U	7.6	36
N-Nitrosodi-n-propylamine		36	U	4.8	36
Hexachloroethane		36	U	6.1	36
Nitrobenzene		36	U	8.1	36
Isophorone		360	U	42	360
Bis(2-chloroethoxy)methane		360	U	52	360
Naphthalene		700		53	360
4-Chloroaniline		360	U	46	360
Hexachlorobutadiene		74	U	15	74
2-Methylnaphthalene		340	J	53	360
Hexachlorocyclopentadiene		360	U	110	360
2-Chloronaphthalene		360	U	51	360
2-Nitroaniline		740	U	99	740
Dimethyl phthalate		360	U	49	360
Acenaphthylene		120	J	52	360
2,6-Dinitrotoluene		74	U	9.2	74
3-Nitroaniline		740	U	82	740
Acenaphthene		85	J	52	360
Dibenzofuran		360	U	55	360
2,4-Dinitrotoluene		74	U	11	74
Diethyl phthalate		360	U	49	360
4-Chlorophenyl phenyl ether		360	U	63	360
Fluorene		110	J	62	360
4-Nitroaniline		740	U	75	740
N-Nitrosodiphenylamine		360	U	59	360
4-Bromophenyl phenyl ether		360	U	65	360
Hexachlorobenzene		36	U	5.0	36
Phenanthrene		320	J	63	360
Anthracene		78	J	64	360
Carbazole		360	U	58	360
Di-n-butyl phthalate		360	U	56	360
Fluoranthene		75	J	60	360

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-N(12')**

Lab Sample ID: 220-10940-5
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 12/08/2009 1415
Date Received: 12/08/2009 1845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25204		Instrument ID:	BNAMS11
Preparation:	3541	Prep Batch: 460-25104		Lab File ID:	z6562.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/11/2009 1330			Final Weight/Volume:	1 mL
Date Prepared:	12/10/2009 1751			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		120	J	63	360
Butyl benzyl phthalate		360	U	42	360
3,3'-Dichlorobenzidine		740	U	80	740
Benzo[a]anthracene		36	U	6.7	36
Chrysene		360	U	53	360
Bis(2-ethylhexyl) phthalate		360	U	48	360
Di-n-octyl phthalate		360	U	43	360
Benzo[b]fluoranthene		36	U	5.4	36
Benzo[k]fluoranthene		36	U	5.1	36
Benzo[a]pyrene		29	J	4.5	36
Indeno[1,2,3-cd]pyrene		8.1	J	5.8	36
Dibenz(a,h)anthracene		36	U	4.4	36
Benzo[g,h,i]perylene		360	U	38	360
1,1'-Biphenyl		360	U	60	360
Acetophenone		360	U	54	360
Benzaldehyde		360	U	23	360
Caprolactam		360	U	50	360
Atrazine		360	U	68	360
2,2'-oxybis[1-chloropropane]		360	U	48	360

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		38 - 105
Phenol-d5	67		41 - 118
Terphenyl-d14	70		16 - 151
2,4,6-Tribromophenol	66		10 - 120
2-Fluorophenol	73		37 - 125
2-Fluorobiphenyl	68		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-W(10')**

Lab Sample ID: 220-10940-1
Client Matrix: Solid
% Moisture: 19.6

Date Sampled: 12/08/2009 1030
Date Received: 12/08/2009 1845

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/10/2009 1321
Date Prepared: 12/09/2009 1255

Analysis Batch: 220-34160
Prep Batch: 220-34095

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.39 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.45	U	0.089	0.45
Aluminum		9770		4.5	22.4
Arsenic		4.3		0.089	0.45
Barium		36.3		0.13	0.45
Beryllium		0.42	J	0.13	0.45
Calcium		8720		13.4	44.7
Cadmium		0.45	U	0.089	0.45
Cobalt		6.9		0.089	0.45
Chromium		14.6		0.18	0.89
Copper		14.6		0.089	0.89
Iron		15500		7.2	22.4
Potassium		1320		4.5	44.7
Magnesium		3230		4.5	44.7
Manganese		233		0.18	1.1
Sodium		728		14.8	44.7
Nickel		15.3		0.089	0.45
Lead		19.0		0.089	0.45
Antimony		0.72	U	0.18	0.72
Selenium		1.2		0.27	0.89
Thallium		0.63	U	0.18	0.63
Vanadium		21.3		0.089	0.45
Zinc		41.0		0.45	4.5

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/11/2009 1649
Date Prepared: 12/10/2009 0904

Analysis Batch: 220-34216
Prep Batch: 220-34122

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.027	J	0.0045	0.057

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-W(9')**

Lab Sample ID: 220-10940-2
Client Matrix: Solid
% Moisture: 18.4

Date Sampled: 12/08/2009 1110
Date Received: 12/08/2009 1845

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34160		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34095		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.44 g
Date Analyzed:	12/10/2009 1355			Final Weight/Volume:	1000 mL
Date Prepared:	12/09/2009 1255				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.43	U	0.085	0.43
Aluminum		9930		4.3	21.3
Arsenic		5.1		0.085	0.43
Barium		32.8		0.13	0.43
Beryllium		0.39	J	0.13	0.43
Calcium		1590		12.8	42.6
Cadmium		0.43	U	0.085	0.43
Cobalt		7.3		0.085	0.43
Chromium		14.3		0.17	0.85
Copper		13.2		0.085	0.85
Iron		17300		6.8	21.3
Potassium		1210		4.3	42.6
Magnesium		3140		4.3	42.6
Manganese		246		0.17	1.1
Sodium		1180		14.0	42.6
Nickel		13.8		0.085	0.43
Lead		23.5		0.085	0.43
Antimony		0.68	U	0.17	0.68
Selenium		1.3		0.26	0.85
Thallium		0.60	U	0.17	0.60
Vanadium		21.0		0.085	0.43
Zinc		46.2		0.43	4.3

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	12/11/2009 1650			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	J	0.0047	0.059

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-S(12')**

Lab Sample ID: 220-10940-3
Client Matrix: Solid
% Moisture: 17.2

Date Sampled: 12/08/2009 1215
Date Received: 12/08/2009 1845

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/10/2009 1359
Date Prepared: 12/09/2009 1255

Analysis Batch: 220-34160
Prep Batch: 220-34095

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.46 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.41	U	0.083	0.41
Aluminum		6350		4.1	20.7
Arsenic		3.2		0.083	0.41
Barium		29.0		0.12	0.41
Beryllium		0.32	J	0.12	0.41
Calcium		2730		12.4	41.3
Cadmium		0.10	J	0.083	0.41
Cobalt		6.1		0.083	0.41
Chromium		12.7		0.17	0.83
Copper		15.9		0.083	0.83
Iron		14700		6.6	20.7
Potassium		1260		4.1	41.3
Magnesium		3520		4.1	41.3
Manganese		328		0.17	1.0
Sodium		253		13.6	41.3
Nickel		20.4		0.083	0.41
Lead		20.4		0.083	0.41
Antimony		0.66	U	0.17	0.66
Selenium		0.81	J	0.25	0.83
Thallium		0.58	U	0.17	0.58
Vanadium		16.8		0.083	0.41
Zinc		40.3		0.41	4.1

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/11/2009 1651
Date Prepared: 12/10/2009 0904

Analysis Batch: 220-34216
Prep Batch: 220-34122

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.067		0.0048	0.060

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-10-S(10')**

Lab Sample ID: 220-10940-4
Client Matrix: Solid
% Moisture: 21.3

Date Sampled: 12/08/2009 1330
Date Received: 12/08/2009 1845

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34160		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34095		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.22 g
Date Analyzed:	12/10/2009 1403			Final Weight/Volume:	1000 mL
Date Prepared:	12/09/2009 1255				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.52	U	0.10	0.52
Aluminum		9700		5.2	26.0
Arsenic		11.2		0.10	0.52
Barium		54.2		0.16	0.52
Beryllium		0.38	J	0.16	0.52
Calcium		17200		15.6	52.1
Cadmium		0.52	U	0.10	0.52
Cobalt		8.9		0.10	0.52
Chromium		15.8		0.21	1.0
Copper		48.0		0.10	1.0
Iron		23500		8.3	26.0
Potassium		1570		5.2	52.1
Magnesium		5620		5.2	52.1
Manganese		380		0.21	1.3
Sodium		610		17.2	52.1
Nickel		25.2		0.10	0.52
Lead		37.3		0.10	0.52
Antimony		1.6		0.21	0.83
Selenium		1.2		0.31	1.0
Thallium		0.73	U	0.21	0.73
Vanadium		25.1		0.10	0.52
Zinc		58.1		0.52	5.2

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Date Analyzed:	12/11/2009 1652			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.044	J	0.0051	0.064

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Client Sample ID: **PBL-1-5-N(12')**

Lab Sample ID: 220-10940-5
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 12/08/2009 1415
Date Received: 12/08/2009 1845

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34160		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34095		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.32 g
Date Analyzed:	12/10/2009 1407			Final Weight/Volume:	1000 mL
Date Prepared:	12/09/2009 1255				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.42	U	0.083	0.42
Aluminum		4530		4.2	20.8
Arsenic		3.0		0.083	0.42
Barium		22.3		0.13	0.42
Beryllium		0.40	J	0.13	0.42
Calcium		83400		12.5	41.7
Cadmium		0.42	U	0.083	0.42
Cobalt		4.0		0.083	0.42
Chromium		7.0		0.17	0.83
Copper		31.5		0.083	0.83
Iron		13000		6.7	20.8
Potassium		1080		4.2	41.7
Magnesium		40400		4.2	41.7
Manganese		173		0.17	1.0
Sodium		451		13.8	41.7
Nickel		6.3		0.083	0.42
Lead		26.1		0.083	0.42
Antimony		0.67	U	0.17	0.67
Selenium		0.68	J	0.25	0.83
Thallium		0.58	U	0.17	0.58
Vanadium		11.0		0.083	0.42
Zinc		27.3		0.42	4.2

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34216		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34122		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	12/11/2009 1653			Final Weight/Volume:	50 mL
Date Prepared:	12/10/2009 0904				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.029	J	0.0043	0.054

General Chemistry

Client Sample ID: **PBL-1-10-W(10')**

Lab Sample ID: 220-10940-1 Date Sampled: 12/08/2009 1030
Client Matrix: Solid Date Received: 12/08/2009 1845

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N
Percent Solids	80.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

General Chemistry

Client Sample ID: **PBL-1-5-W(9')**

Lab Sample ID: 220-10940-2

Client Matrix: Solid

Date Sampled: 12/08/2009 1110

Date Received: 12/08/2009 1845

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N
Percent Solids	81.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-1-5-S(12')**

Lab Sample ID: 220-10940-3 Date Sampled: 12/08/2009 1215
Client Matrix: Solid Date Received: 12/08/2009 1845

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N
Percent Solids	82.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-1-10-S(10')**

Lab Sample ID: 220-10940-4 Date Sampled: 12/08/2009 1330
Client Matrix: Solid Date Received: 12/08/2009 1845

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	21.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N
Percent Solids	78.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

General Chemistry

Client Sample ID: **PBL-1-5-N(12')**

Lab Sample ID: 220-10940-5

Client Matrix: Solid

Date Sampled: 12/08/2009 1415

Date Received: 12/08/2009 1845

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N
Percent Solids	90.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34114	Date Analyzed: 12/09/2009 1651						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-10940-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	J	Indicates an estimated value.
	U	Analyzed for but not detected.
GC/MS Semi VOA		
	J	Indicates an estimated value.
	U	Analyzed for but not detected.
Metals		
	J	Sample result is greater than the MDL but below the CRDL
	U	Indicates analyzed for but not detected.

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Erika Cozza	**Field Sampler:** Erika Cozza	**TAT Required (business days):** 48 hr.	**Lab PM/Contact:**
Company: Shaw E+I	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 10940
Address: 92 North Ave.	**E-Mail:** same	**Deliverable Type (Report/EDD):**	**Passed Rad Screen (Lab Use Only):** [X] Yes [ ] No
City, State, Zip: New Rochelle, NY 10801	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):** FROZ#1 2.0°C
Phone: 914-633-9324	**WO #:**		
Email: e.cozza@shawgrp.com	**Project #:** 1260649	**State Regulatory QC Criteria Requirements:**	
Project Name/Site Location (State): Kent Ave.	**SSOW#:**		

COC Number: 10770
Page 1 **of** 1
Carrier Tracking Notes:

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	Analysis (Attach list if more space is needed): VOC 8260	BN 8270	TAL Metals	Comments
1	PBL-1-10-W(10')	12/8/09	1030	S		2							X	X	X	
2	PBL-1-5-W(9')	12/8/09	1110	S		2							X	X	X	
3	PBL-1-5-S(12')	12/8/09	1215	S		2							X	X	X	
4	PBL-1-10-S(10')	12/8/09	1330	S		2							X	X	X	
	~~PBL-1-10(Dup)~~															
5	PBL-1-5-N(12')	12/8/09	1415	S		2							X	X	X	

Relinquished by:	Date/Time: 12/8/09 1510	Company: Shaw E+I	Received by: Richard Ford	Date/Time: 12/8/09 1570	Company: TACT
Relinquished by: Richard Ford	Date/Time: 12/8/09 1845	Company: TACT	Received by:	Date/Time: 12/8/09 1845	Company: TACT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

Login Sample Receipt Check List

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Login Number: 10940

List Source: TestAmerica Connecticut

Creator: Teixeira, Maria L

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	N/A	

Login Sample Receipt Check List

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-10940-1

Login Number: 10940
Creator: Meyers, Gary
List Number: 1

List Source: TestAmerica Edison
List Creation: 12/10/09 11:29 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4/3.9°C IR #40
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 220-11022-1

Job Description: Con Edison, Kent Avenue Generating Stati

For:
Shaw Environmental & Infrastructure, Inc
92 North Avenue
New Rochelle, NY 10801

Attention: Ms. Erika Cozza

Approved for release.
Jill M Duhancik
Project Manager I
12/16/2009 4:58 PM

Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
12/16/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

Table of Contents

Job Narrative
220-11022-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: Surrogate recovery for the following samples were outside control limits: PBL-1-20-E(8') (220-11022-1), PBL-2-20-E(9') (220-11022-5). Second runs confirmed matrix interference. One set of data was reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6020: The low level check standard recovery associated with batch 34318 run on 12/15/09 at 12:40 was outside the acceptance criteria for antimony at 149%.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-11022-1	PBL-1-20-E(8')	Solid	12/11/2009 1030	12/11/2009 1740
220-11022-2	PBL-2-10-E(6')	Solid	12/11/2009 1115	12/11/2009 1740
220-11022-3	PBL-2-10-E(10')	Solid	12/11/2009 1117	12/11/2009 1740
220-11022-4	PBL-2-10-N(11')	Solid	12/11/2009 1145	12/11/2009 1740
220-11022-5	PBL-2-20-E(9')	Solid	12/11/2009 1220	12/11/2009 1740
220-11022-6	PBL-2-30-E(9')	Solid	12/11/2009 1345	12/11/2009 1740
220-11022-7	PBL-1-10-E(6')	Solid	12/10/2009 1530	12/11/2009 1740
220-11022-8	PBL-8-20-E(10')	Solid	12/10/2009 1350	12/11/2009 1740
220-11022-9	PBL-7-20-S(10')	Solid	12/10/2009 1325	12/11/2009 1740
220-11022-10	PBL-8-20-S(11')	Solid	12/11/2009 1440	12/11/2009 1740
220-11022-11	PBL-8-20-S(6')	Solid	12/11/2009 1439	12/11/2009 1740

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-1-20-E(8')**

Lab Sample ID: 220-11022-1
Client Matrix: Solid
% Moisture: 22.6

Date Sampled: 12/11/2009 1030
Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2009 2233
Date Prepared: 12/12/2009 2233

Analysis Batch: 220-34252

Instrument ID: MSO
Lab File ID: O4890.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.5	U	0.45	6.5
Chloromethane		6.5	U	1.0	6.5
Vinyl chloride		6.5	U	0.30	6.5
Bromomethane		6.5	U	2.7	6.5
Chloroethane		6.5	U	1.3	6.5
Trichlorofluoromethane		6.5	U	0.19	6.5
1,1-Dichloroethene		6.5	U	0.75	6.5
1,1,2-Trichloro-1,2,2-trifluoroethane		6.5	U	1.0	6.5
Acetone		28	*	2.9	26
Carbon disulfide		6.5	U	0.53	6.5
Methyl acetate		6.5	U	0.57	6.5
Methylene Chloride		26	U	1.4	26
trans-1,2-Dichloroethene		6.5	U	0.50	6.5
Methyl tert-butyl ether		6.5	U	0.27	6.5
1,1-Dichloroethane		6.5	U	0.39	6.5
cis-1,2-Dichloroethene		6.5	U	0.48	6.5
Methyl Ethyl Ketone		13	U *	2.1	13
Chloroform		6.5	U	0.44	6.5
1,1,1-Trichloroethane		6.5	U	0.68	6.5
Cyclohexane		6.5	U *	0.89	6.5
Carbon tetrachloride		6.5	U	1.2	6.5
Benzene		6.5	U	0.74	6.5
1,2-Dichloroethane		6.5	U	0.75	6.5
Trichloroethene		6.5	U	1.0	6.5
Methylcyclohexane		6.5	U	0.43	6.5
1,2-Dichloropropane		6.5	U	0.87	6.5
Bromodichloromethane		6.5	U	0.39	6.5
cis-1,3-Dichloropropene		6.5	U	0.72	6.5
methyl isobutyl ketone		6.5	U	0.71	6.5
Toluene		0.35	J B	0.096	6.5
trans-1,3-Dichloropropene		6.5	U	0.35	6.5
1,1,2-Trichloroethane		6.5	U	0.48	6.5
Tetrachloroethene		6.5	U	1.0	6.5
2-Hexanone		13	U	1.6	13
Dibromochloromethane		6.5	U	0.45	6.5
1,2-Dibromoethane		6.5	U	0.98	6.5
Chlorobenzene		6.5	U	0.76	6.5
Ethylbenzene		6.5	U	0.90	6.5
Xylenes, Total		6.5	U	0.63	6.5
Styrene		6.5	U	0.19	6.5
Bromoform		6.5	U	0.79	6.5
Isopropylbenzene		6.5	U	0.25	6.5
1,1,2,2-Tetrachloroethane		6.5	U	0.67	6.5
1,3-Dichlorobenzene		6.5	U	0.27	6.5
1,4-Dichlorobenzene		6.5	U	0.87	6.5
1,2-Dichlorobenzene		6.5	U	0.31	6.5

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-1-20-E(8')**

Lab Sample ID: 220-11022-1 Date Sampled: 12/11/2009 1030
Client Matrix: Solid % Moisture: 22.6 Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34252	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O4890.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/12/2009 2233		Final Weight/Volume: 5 mL
Date Prepared:	12/12/2009 2233		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		13	U	5.9	13
1,2,4-Trichlorobenzene		6.5	U	0.97	6.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	69		59 - 132
4-Bromofluorobenzene	37		34 - 124
Dibromofluoromethane	58	*	59 - 123
Toluene-d8 (Surr)	40	*	50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(6')**

Lab Sample ID: 220-11022-2
Client Matrix: Solid
% Moisture: 16.9

Date Sampled: 12/11/2009 1115
Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2009 2258
Date Prepared: 12/12/2009 2258

Analysis Batch: 220-34252

Instrument ID: MSO
Lab File ID: O4891.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.0	U	0.42	6.0
Chloromethane		6.0	U	0.94	6.0
Vinyl chloride		6.0	U	0.28	6.0
Bromomethane		6.0	U	2.5	6.0
Chloroethane		6.0	U	1.2	6.0
Trichlorofluoromethane		6.0	U	0.18	6.0
1,1-Dichloroethene		6.0	U	0.70	6.0
1,1,2-Trichloro-1,2,2-trifluoroethane		6.0	U	0.95	6.0
Acetone		24	U *	2.7	24
Carbon disulfide		6.0	U	0.49	6.0
Methyl acetate		6.0	U	0.53	6.0
Methylene Chloride		24	U	1.3	24
trans-1,2-Dichloroethene		6.0	U	0.47	6.0
Methyl tert-butyl ether		6.0	U	0.25	6.0
1,1-Dichloroethane		6.0	U	0.36	6.0
cis-1,2-Dichloroethene		6.0	U	0.45	6.0
Methyl Ethyl Ketone		12	U *	1.9	12
Chloroform		6.0	U	0.41	6.0
1,1,1-Trichloroethane		6.0	U	0.64	6.0
Cyclohexane		6.0	U *	0.83	6.0
Carbon tetrachloride		6.0	U	1.1	6.0
Benzene		6.0	U	0.69	6.0
1,2-Dichloroethane		6.0	U	0.70	6.0
Trichloroethene		6.0	U	0.97	6.0
Methylcyclohexane		6.0	U	0.40	6.0
1,2-Dichloropropane		6.0	U	0.81	6.0
Bromodichloromethane		6.0	U	0.36	6.0
cis-1,3-Dichloropropene		6.0	U	0.67	6.0
methyl isobutyl ketone		6.0	U	0.66	6.0
Toluene		0.16	J B	0.089	6.0
trans-1,3-Dichloropropene		6.0	U	0.32	6.0
1,1,2-Trichloroethane		6.0	U	0.45	6.0
Tetrachloroethene		6.0	U	0.97	6.0
2-Hexanone		12	U	1.4	12
Dibromochloromethane		6.0	U	0.42	6.0
1,2-Dibromoethane		6.0	U	0.91	6.0
Chlorobenzene		6.0	U	0.71	6.0
Ethylbenzene		6.0	U	0.84	6.0
Xylenes, Total		6.0	U	0.58	6.0
Styrene		6.0	U	0.18	6.0
Bromoform		6.0	U	0.73	6.0
Isopropylbenzene		6.0	U	0.23	6.0
1,1,2,2-Tetrachloroethane		6.0	U	0.63	6.0
1,3-Dichlorobenzene		6.0	U	0.25	6.0
1,4-Dichlorobenzene		6.0	U	0.81	6.0
1,2-Dichlorobenzene		6.0	U	0.29	6.0

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(6')**

Lab Sample ID: 220-11022-2 Date Sampled: 12/11/2009 1115
Client Matrix: Solid % Moisture: 16.9 Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34252	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O4891.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/12/2009 2258		Final Weight/Volume: 5 mL
Date Prepared:	12/12/2009 2258		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		12	U	5.5	12
1,2,4-Trichlorobenzene		6.0	U	0.90	6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83		59 - 132
4-Bromofluorobenzene	72		34 - 124
Dibromofluoromethane	79		59 - 123
Toluene-d8 (Surr)	80		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(10')**

Lab Sample ID: 220-11022-3
Client Matrix: Solid
% Moisture: 15.1

Date Sampled: 12/11/2009 1117
Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2009 2322
Date Prepared: 12/12/2009 2322

Analysis Batch: 220-34252

Instrument ID: MSO
Lab File ID: O4892.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		5.9	U	0.41	5.9
Chloromethane		5.9	U	0.92	5.9
Vinyl chloride		5.9	U	0.27	5.9
Bromomethane		5.9	U	2.4	5.9
Chloroethane		5.9	U	1.2	5.9
Trichlorofluoromethane		5.9	U	0.18	5.9
1,1-Dichloroethene		5.9	U	0.68	5.9
1,1,2-Trichloro-1,2,2-trifluoroethane		5.9	U	0.93	5.9
Acetone		19	J *	2.6	24
Carbon disulfide		0.75	J	0.48	5.9
Methyl acetate		5.9	U	0.52	5.9
Methylene Chloride		24	U	1.3	24
trans-1,2-Dichloroethene		5.9	U	0.46	5.9
Methyl tert-butyl ether		5.9	U	0.25	5.9
1,1-Dichloroethane		5.9	U	0.35	5.9
cis-1,2-Dichloroethene		5.9	U	0.44	5.9
Methyl Ethyl Ketone		12	U *	1.9	12
Chloroform		5.9	U	0.40	5.9
1,1,1-Trichloroethane		5.9	U	0.62	5.9
Cyclohexane		5.9	U *	0.81	5.9
Carbon tetrachloride		5.9	U	1.1	5.9
Benzene		5.9	U	0.67	5.9
1,2-Dichloroethane		5.9	U	0.68	5.9
Trichloroethene		5.9	U	0.95	5.9
Methylcyclohexane		5.9	U	0.39	5.9
1,2-Dichloropropane		5.9	U	0.79	5.9
Bromodichloromethane		5.9	U	0.35	5.9
cis-1,3-Dichloropropene		5.9	U	0.66	5.9
methyl isobutyl ketone		5.9	U	0.65	5.9
Toluene		0.30	J B	0.087	5.9
trans-1,3-Dichloropropene		5.9	U	0.32	5.9
1,1,2-Trichloroethane		5.9	U	0.44	5.9
Tetrachloroethene		5.9	U	0.95	5.9
2-Hexanone		12	U	1.4	12
Dibromochloromethane		5.9	U	0.41	5.9
1,2-Dibromoethane		5.9	U	0.89	5.9
Chlorobenzene		5.9	U	0.69	5.9
Ethylbenzene		5.9	U	0.82	5.9
Xylenes, Total		5.9	U	0.57	5.9
Styrene		5.9	U	0.18	5.9
Bromoform		5.9	U	0.72	5.9
Isopropylbenzene		5.9	U	0.22	5.9
1,1,2,2-Tetrachloroethane		5.9	U	0.61	5.9
1,3-Dichlorobenzene		5.9	U	0.25	5.9
1,4-Dichlorobenzene		5.9	U	0.79	5.9
1,2-Dichlorobenzene		5.9	U	0.28	5.9

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(10')**

Lab Sample ID: 220-11022-3 Date Sampled: 12/11/2009 1117
Client Matrix: Solid % Moisture: 15.1 Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34252	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O4892.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/12/2009 2322		Final Weight/Volume: 5 mL
Date Prepared:	12/12/2009 2322		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		12	U	5.3	12
1,2,4-Trichlorobenzene		5.9	U	0.88	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83		59 - 132
4-Bromofluorobenzene	79		34 - 124
Dibromofluoromethane	82		59 - 123
Toluene-d8 (Surr)	83		50 - 118

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-N(11')**

Lab Sample ID: 220-11022-4 | Date Sampled: 12/11/2009 1145
Client Matrix: Solid | % Moisture: 20.1 | Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B | Analysis Batch: 220-34252 | Instrument ID: MSO
Preparation: 5030B | Lab File ID: O4893.D
Dilution: 1.0 | Initial Weight/Volume: 5 g
Date Analyzed: 12/12/2009 2347 | Final Weight/Volume: 5 mL
Date Prepared: 12/12/2009 2347

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.3	U	0.44	6.3
Chloromethane		6.3	U	0.98	6.3
Vinyl chloride		6.3	U	0.29	6.3
Bromomethane		6.3	U	2.6	6.3
Chloroethane		6.3	U	1.2	6.3
Trichlorofluoromethane		6.3	U	0.19	6.3
1,1-Dichloroethene		6.3	U	0.73	6.3
1,1,2-Trichloro-1,2,2-trifluoroethane		6.3	U	0.99	6.3
Acetone		6.8	J *	2.8	25
Carbon disulfide		2.0	J	0.51	6.3
Methyl acetate		6.3	U	0.55	6.3
Methylene Chloride		25	U	1.4	25
trans-1,2-Dichloroethene		6.3	U	0.49	6.3
Methyl tert-butyl ether		6.3	U	0.26	6.3
1,1-Dichloroethane		6.3	U	0.38	6.3
cis-1,2-Dichloroethene		6.3	U	0.46	6.3
Methyl Ethyl Ketone		13	U *	2.0	13
Chloroform		6.3	U	0.43	6.3
1,1,1-Trichloroethane		6.3	U	0.66	6.3
Cyclohexane		6.3	U *	0.86	6.3
Carbon tetrachloride		6.3	U	1.2	6.3
Benzene		6.3	U	0.71	6.3
1,2-Dichloroethane		6.3	U	0.73	6.3
Trichloroethene		6.3	U	1.0	6.3
Methylcyclohexane		6.3	U	0.41	6.3
1,2-Dichloropropane		6.3	U	0.84	6.3
Bromodichloromethane		6.3	U	0.38	6.3
cis-1,3-Dichloropropene		6.3	U	0.70	6.3
methyl isobutyl ketone		6.3	U	0.69	6.3
Toluene		6.3	U	0.093	6.3
trans-1,3-Dichloropropene		6.3	U	0.34	6.3
1,1,2-Trichloroethane		6.3	U	0.46	6.3
Tetrachloroethene		6.3	U	1.0	6.3
2-Hexanone		13	U	1.5	13
Dibromochloromethane		6.3	U	0.44	6.3
1,2-Dibromoethane		6.3	U	0.95	6.3
Chlorobenzene		6.3	U	0.74	6.3
Ethylbenzene		6.3	U	0.88	6.3
Xylenes, Total		6.3	U	0.61	6.3
Styrene		6.3	U	0.19	6.3
Bromoform		6.3	U	0.76	6.3
Isopropylbenzene		6.3	U	0.24	6.3
1,1,2,2-Tetrachloroethane		6.3	U	0.65	6.3
1,3-Dichlorobenzene		6.3	U	0.26	6.3
1,4-Dichlorobenzene		6.3	U	0.84	6.3
1,2-Dichlorobenzene		6.3	U	0.30	6.3

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-N(11')**

Lab Sample ID: 220-11022-4 | Date Sampled: 12/11/2009 1145
Client Matrix: Solid | % Moisture: 20.1 | Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34252	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O4893.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/12/2009 2347		Final Weight/Volume: 5 mL
Date Prepared:	12/12/2009 2347		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		13	U	5.7	13
1,2,4-Trichlorobenzene		6.3	U	0.94	6.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78		59 - 132
4-Bromofluorobenzene	74		34 - 124
Dibromofluoromethane	77		59 - 123
Toluene-d8 (Surr)	77		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-2-20-E(9')**

Lab Sample ID: 220-11022-5
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 12/11/2009 1220
Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/13/2009 0012
Date Prepared: 12/13/2009 0012

Analysis Batch: 220-34252

Instrument ID: MSO
Lab File ID: O4894.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		5.5	U	0.38	5.5
Chloromethane		5.5	U	0.86	5.5
Vinyl chloride		5.5	U	0.25	5.5
Bromomethane		5.5	U	2.3	5.5
Chloroethane		5.5	U	1.1	5.5
Trichlorofluoromethane		5.5	U	0.16	5.5
1,1-Dichloroethene		5.5	U	0.64	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane		5.5	U	0.87	5.5
Acetone		3.9	J *	2.5	22
Carbon disulfide		5.0	J	0.45	5.5
Methyl acetate		5.5	U	0.48	5.5
Methylene Chloride		22	U	1.2	22
trans-1,2-Dichloroethene		5.5	U	0.43	5.5
Methyl tert-butyl ether		5.5	U	0.23	5.5
1,1-Dichloroethane		5.5	U	0.33	5.5
cis-1,2-Dichloroethene		5.5	U	0.41	5.5
Methyl Ethyl Ketone		11	U *	1.7	11
Chloroform		5.5	U	0.37	5.5
1,1,1-Trichloroethane		5.5	U	0.58	5.5
Cyclohexane		5.5	U *	0.76	5.5
Carbon tetrachloride		5.5	U	1.0	5.5
Benzene		5.5	U	0.63	5.5
1,2-Dichloroethane		5.5	U	0.64	5.5
Trichloroethene		5.5	U	0.89	5.5
Methylcyclohexane		1.9	J	0.36	5.5
1,2-Dichloropropane		5.5	U	0.73	5.5
Bromodichloromethane		5.5	U	0.33	5.5
cis-1,3-Dichloropropene		5.5	U	0.61	5.5
methyl isobutyl ketone		5.5	U	0.60	5.5
Toluene		0.25	J B	0.081	5.5
trans-1,3-Dichloropropene		5.5	U	0.30	5.5
1,1,2-Trichloroethane		5.5	U	0.41	5.5
Tetrachloroethene		5.5	U	0.89	5.5
2-Hexanone		11	U	1.3	11
Dibromochloromethane		5.5	U	0.38	5.5
1,2-Dibromoethane		5.5	U	0.83	5.5
Chlorobenzene		5.5	U	0.65	5.5
Ethylbenzene		2.3	J	0.77	5.5
Xylenes, Total		0.63	J	0.53	5.5
Styrene		5.5	U	0.16	5.5
Bromoform		5.5	U	0.67	5.5
Isopropylbenzene		2.1	J	0.21	5.5
1,1,2,2-Tetrachloroethane		5.5	U	0.57	5.5
1,3-Dichlorobenzene		5.5	U	0.23	5.5
1,4-Dichlorobenzene		5.5	U	0.73	5.5
1,2-Dichlorobenzene		5.5	U	0.26	5.5

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-2-20-E(9')**

Lab Sample ID: 220-11022-5 Date Sampled: 12/11/2009 1220
Client Matrix: Solid % Moisture: 8.8 Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34252	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O4894.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/13/2009 0012		Final Weight/Volume: 5 mL
Date Prepared:	12/13/2009 0012		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		11	U	5.0	11
1,2,4-Trichlorobenzene		5.5	U	0.82	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	71		59 - 132
4-Bromofluorobenzene	234	*	34 - 124
Dibromofluoromethane	45	*	59 - 123
Toluene-d8 (Surr)	43	*	50 - 118

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-30-E(9')**

Lab Sample ID: 220-11022-6 | Date Sampled: 12/11/2009 1345
Client Matrix: Solid | % Moisture: 18.7 | Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B | Analysis Batch: 220-34252 | Instrument ID: MSO
Preparation: 5030B | Lab File ID: O4895.D
Dilution: 1.0 | Initial Weight/Volume: 5 g
Date Analyzed: 12/13/2009 0036 | Final Weight/Volume: 5 mL
Date Prepared: 12/13/2009 0036

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.1	U	0.43	6.1
Chloromethane		6.1	U	0.96	6.1
Vinyl chloride		6.1	U	0.28	6.1
Bromomethane		6.1	U	2.6	6.1
Chloroethane		6.1	U	1.2	6.1
Trichlorofluoromethane		6.1	U	0.18	6.1
1,1-Dichloroethene		6.1	U	0.71	6.1
1,1,2-Trichloro-1,2,2-trifluoroethane		6.1	U	0.97	6.1
Acetone		9.8	J *	2.8	25
Carbon disulfide		2.4	J	0.50	6.1
Methyl acetate		6.1	U	0.54	6.1
Methylene Chloride		25	U	1.3	25
trans-1,2-Dichloroethene		6.1	U	0.48	6.1
Methyl tert-butyl ether		6.1	U	0.26	6.1
1,1-Dichloroethane		6.1	U	0.37	6.1
cis-1,2-Dichloroethene		6.1	U	0.45	6.1
Methyl Ethyl Ketone		12	U *	2.0	12
Chloroform		6.1	U	0.42	6.1
1,1,1-Trichloroethane		6.1	U	0.65	6.1
Cyclohexane		6.1	U *	0.85	6.1
Carbon tetrachloride		6.1	U	1.2	6.1
Benzene		6.1	U	0.70	6.1
1,2-Dichloroethane		6.1	U	0.71	6.1
Trichloroethene		6.1	U	1.0	6.1
Methylcyclohexane		6.1	U	0.41	6.1
1,2-Dichloropropane		6.1	U	0.82	6.1
Bromodichloromethane		6.1	U	0.37	6.1
cis-1,3-Dichloropropene		6.1	U	0.69	6.1
methyl isobutyl ketone		6.1	U	0.68	6.1
Toluene		0.24	J B	0.091	6.1
trans-1,3-Dichloropropene		6.1	U	0.33	6.1
1,1,2-Trichloroethane		6.1	U	0.45	6.1
Tetrachloroethene		6.1	U	1.0	6.1
2-Hexanone		12	U	1.5	12
Dibromochloromethane		6.1	U	0.43	6.1
1,2-Dibromoethane		6.1	U	0.93	6.1
Chlorobenzene		6.1	U	0.73	6.1
Ethylbenzene		6.1	U	0.86	6.1
Xylenes, Total		6.1	U	0.60	6.1
Styrene		6.1	U	0.18	6.1
Bromoform		6.1	U	0.75	6.1
Isopropylbenzene		1.8	J	0.23	6.1
1,1,2,2-Tetrachloroethane		6.1	U	0.64	6.1
1,3-Dichlorobenzene		6.1	U	0.26	6.1
1,4-Dichlorobenzene		6.1	U	0.82	6.1
1,2-Dichlorobenzene		6.1	U	0.30	6.1

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-2-30-E(9')**

Lab Sample ID: 220-11022-6 Date Sampled: 12/11/2009 1345
Client Matrix: Solid % Moisture: 18.7 Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 220-34252 Instrument ID: MSO
Preparation: 5030B Lab File ID: O4895.D
Dilution: 1.0 Initial Weight/Volume: 5 g
Date Analyzed: 12/13/2009 0036 Final Weight/Volume: 5 mL
Date Prepared: 12/13/2009 0036

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		12	U	5.6	12
1,2,4-Trichlorobenzene		6.1	U	0.92	6.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78		59 - 132
4-Bromofluorobenzene	67		34 - 124
Dibromofluoromethane	77		59 - 123
Toluene-d8 (Surr)	76		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-1-10-E(6')**

Lab Sample ID: 220-11022-7
Client Matrix: Solid
% Moisture: 16.3

Date Sampled: 12/10/2009 1530
Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/13/2009 0101
Date Prepared: 12/13/2009 0101

Analysis Batch: 220-34252

Instrument ID: MSO
Lab File ID: O4896.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.0	U	0.42	6.0
Chloromethane		6.0	U	0.93	6.0
Vinyl chloride		6.0	U	0.27	6.0
Bromomethane		6.0	U	2.5	6.0
Chloroethane		6.0	U	1.2	6.0
Trichlorofluoromethane		6.0	U	0.18	6.0
1,1-Dichloroethene		6.0	U	0.69	6.0
1,1,2-Trichloro-1,2,2-trifluoroethane		6.0	U	0.94	6.0
Acetone		71	*	2.7	24
Carbon disulfide		1.8	J	0.49	6.0
Methyl acetate		6.0	U	0.53	6.0
Methylene Chloride		24	U	1.3	24
trans-1,2-Dichloroethene		6.0	U	0.47	6.0
Methyl tert-butyl ether		6.0	U	0.25	6.0
1,1-Dichloroethane		6.0	U	0.36	6.0
cis-1,2-Dichloroethene		6.0	U	0.44	6.0
Methyl Ethyl Ketone		12	U *	1.9	12
Chloroform		6.0	U	0.41	6.0
1,1,1-Trichloroethane		6.0	U	0.63	6.0
Cyclohexane		6.0	U *	0.82	6.0
Carbon tetrachloride		6.0	U	1.1	6.0
Benzene		6.0	U	0.68	6.0
1,2-Dichloroethane		6.0	U	0.69	6.0
Trichloroethene		6.0	U	0.97	6.0
Methylcyclohexane		6.0	U	0.39	6.0
1,2-Dichloropropane		6.0	U	0.80	6.0
Bromodichloromethane		6.0	U	0.36	6.0
cis-1,3-Dichloropropene		6.0	U	0.67	6.0
methyl isobutyl ketone		6.0	U	0.66	6.0
Toluene		0.30	J B	0.088	6.0
trans-1,3-Dichloropropene		6.0	U	0.32	6.0
1,1,2-Trichloroethane		6.0	U	0.44	6.0
Tetrachloroethene		6.0	U	0.97	6.0
2-Hexanone		12	U	1.4	12
Dibromochloromethane		6.0	U	0.42	6.0
1,2-Dibromoethane		6.0	U	0.91	6.0
Chlorobenzene		6.0	U	0.70	6.0
Ethylbenzene		6.0	U	0.84	6.0
Xylenes, Total		6.0	U	0.58	6.0
Styrene		6.0	U	0.18	6.0
Bromoform		6.0	U	0.73	6.0
Isopropylbenzene		0.67	J	0.23	6.0
1,1,2,2-Tetrachloroethane		6.0	U	0.62	6.0
1,3-Dichlorobenzene		6.0	U	0.25	6.0
1,4-Dichlorobenzene		6.0	U	0.80	6.0
1,2-Dichlorobenzene		6.0	U	0.29	6.0

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-1-10-E(6')**

Lab Sample ID: 220-11022-7 Date Sampled: 12/10/2009 1530
Client Matrix: Solid % Moisture: 16.3 Date Received: 12/11/2009 1740

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 220-34252 Instrument ID: MSO
Preparation: 5030B Lab File ID: O4896.D
Dilution: 1.0 Initial Weight/Volume: 5 g
Date Analyzed: 12/13/2009 0101 Final Weight/Volume: 5 mL
Date Prepared: 12/13/2009 0101

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		12	U	5.4	12
1,2,4-Trichlorobenzene		6.0	U	0.90	6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	75		59 - 132
4-Bromofluorobenzene	79		34 - 124
Dibromofluoromethane	72		59 - 123
Toluene-d8 (Surr)	66		50 - 118

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-1-20-E(8')**

Lab Sample ID: 220-11022-1 | Date Sampled: 12/11/2009 1030
Client Matrix: Solid | % Moisture: 22.6 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56859.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/16/2009 1337			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		430	U	52	430
2-Chlorophenol		430	U	57	430
2-Methylphenol		430	U	61	430
4-Methylphenol		430	U	70	430
2-Nitrophenol		430	U	70	430
2,4-Dimethylphenol		430	U	68	430
2,4-Dichlorophenol		430	U	68	430
4-Chloro-3-methylphenol		430	U	72	430
2,4,6-Trichlorophenol		430	U	76	430
2,4,5-Trichlorophenol		430	U	82	430
2,4-Dinitrophenol		1300	U	91	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	200	1300
Pentachlorophenol		1300	U	210	1300
Bis(2-chloroethyl)ether		43	U	8.9	43
N-Nitrosodi-n-propylamine		43	U	5.6	43
Hexachloroethane		43	U	7.2	43
Nitrobenzene		43	U	9.6	43
Isophorone		430	U	49	430
Bis(2-chloroethoxy)methane		430	U	61	430
Naphthalene		180	J	63	430
4-Chloroaniline		430	U	54	430
Hexachlorobutadiene		87	U	17	87
2-Methylnaphthalene		100	J	62	430
Hexachlorocyclopentadiene		430	U	120	430
2-Chloronaphthalene		430	U	60	430
2-Nitroaniline		870	U	120	870
Dimethyl phthalate		430	U	58	430
Acenaphthylene		430	U	61	430
2,6-Dinitrotoluene		87	U	11	87
3-Nitroaniline		870	U	97	870
Acenaphthene		910		61	430
Dibenzofuran		430	U	64	430
2,4-Dinitrotoluene		87	U	12	87
Diethyl phthalate		430	U	57	430
4-Chlorophenyl phenyl ether		430	U	73	430
Fluorene		1100		72	430
4-Nitroaniline		870	U	88	870
N-Nitrosodiphenylamine		430	U	70	430
4-Bromophenyl phenyl ether		430	U	76	430
Hexachlorobenzene		43	U	5.9	43
Phenanthrene		560		75	430
Anthracene		730		75	430
Carbazole		430	U	68	430
Di-n-butyl phthalate		430	U	65	430
Fluoranthene		1400		71	430

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-1-20-E(8')**

Lab Sample ID: 220-11022-1 Date Sampled: 12/11/2009 1030
Client Matrix: Solid % Moisture: 22.6 Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56859.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/16/2009 1337			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		1400		74	430
Butyl benzyl phthalate		430	U	50	430
3,3'-Dichlorobenzidine		870	U	95	870
Benzo[a]anthracene		710		7.9	43
Chrysene		690		62	430
Bis(2-ethylhexyl) phthalate		430	U	57	430
Di-n-octyl phthalate		430	U	51	430
Benzo[b]fluoranthene		650		6.4	43
Benzo[k]fluoranthene		260		6.0	43
Benzo[a]pyrene		540		5.3	43
Indeno[1,2,3-cd]pyrene		390		6.8	43
Dibenz(a,h)anthracene		89		5.1	43
Benzo[g,h,i]perylene		360	J	45	430
1,1'-Biphenyl		430	U	70	430
Acetophenone		430	U	63	430
Benzaldehyde		430	U	27	430
Caprolactam		430	U	59	430
Atrazine		430	U	80	430
2,2'-oxybis[1-chloropropane]		430	U	56	430

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	93		38 - 105
Phenol-d5	73		41 - 118
Terphenyl-d14	74		16 - 151
2,4,6-Tribromophenol	72		10 - 120
2-Fluorophenol	72		37 - 125
2-Fluorobiphenyl	86		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(6')**

Lab Sample ID: 220-11022-2 | Date Sampled: 12/11/2009 1115
Client Matrix: Solid | % Moisture: 16.9 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56858.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/16/2009 1315			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		400	U	49	400
2-Chlorophenol		400	U	53	400
2-Methylphenol		400	U	57	400
4-Methylphenol		400	U	65	400
2-Nitrophenol		400	U	65	400
2,4-Dimethylphenol		400	U	64	400
2,4-Dichlorophenol		400	U	64	400
4-Chloro-3-methylphenol		400	U	67	400
2,4,6-Trichlorophenol		400	U	71	400
2,4,5-Trichlorophenol		400	U	77	400
2,4-Dinitrophenol		1200	U	84	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	190	1200
Bis(2-chloroethyl)ether		40	U	8.3	40
N-Nitrosodi-n-propylamine		40	U	5.3	40
Hexachloroethane		40	U	6.7	40
Nitrobenzene		40	U	8.9	40
Isophorone		400	U	46	400
Bis(2-chloroethoxy)methane		400	U	57	400
Naphthalene		400	U	58	400
4-Chloroaniline		400	U	50	400
Hexachlorobutadiene		81	U	16	81
2-Methylnaphthalene		400	U	58	400
Hexachlorocyclopentadiene		400	U	120	400
2-Chloronaphthalene		400	U	56	400
2-Nitroaniline		810	U	110	810
Dimethyl phthalate		400	U	54	400
Acenaphthylene		400	U	57	400
2,6-Dinitrotoluene		81	U	10	81
3-Nitroaniline		810	U	90	810
Acenaphthene		400	U	57	400
Dibenzofuran		400	U	60	400
2,4-Dinitrotoluene		81	U	12	81
Diethyl phthalate		400	U	53	400
4-Chlorophenyl phenyl ether		400	U	68	400
Fluorene		400	U	67	400
4-Nitroaniline		810	U	82	810
N-Nitrosodiphenylamine		400	U	65	400
4-Bromophenyl phenyl ether		400	U	71	400
Hexachlorobenzene		40	U	5.5	40
Phenanthrene		180	J	69	400
Anthracene		400	U	70	400
Carbazole		400	U	63	400
Di-n-butyl phthalate		400	U	61	400
Fluoranthene		300	J	66	400

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(6')**

Lab Sample ID: 220-11022-2 | Date Sampled: 12/11/2009 1115
Client Matrix: Solid | % Moisture: 16.9 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56858.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/16/2009 1315			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		350	J	69	400
Butyl benzyl phthalate		400	U	46	400
3,3'-Dichlorobenzidine		810	U	88	810
Benzo[a]anthracene		220		7.4	40
Chrysene		210	J	58	400
Bis(2-ethylhexyl) phthalate		400	U	53	400
Di-n-octyl phthalate		400	U	47	400
Benzo[b]fluoranthene		230		5.9	40
Benzo[k]fluoranthene		110		5.6	40
Benzo[a]pyrene		220		4.9	40
Indeno[1,2,3-cd]pyrene		120		6.4	40
Dibenz(a,h)anthracene		35	J	4.8	40
Benzo[g,h,i]perylene		130	J	42	400
1,1'-Biphenyl		400	U	66	400
Acetophenone		400	U	59	400
Benzaldehyde		400	U	25	400
Caprolactam		400	U	55	400
Atrazine		400	U	74	400
2,2'-oxybis[1-chloropropane]		400	U	52	400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		38 - 105
Phenol-d5	71		41 - 118
Terphenyl-d14	70		16 - 151
2,4,6-Tribromophenol	51		10 - 120
2-Fluorophenol	69		37 - 125
2-Fluorobiphenyl	69		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(10')**

Lab Sample ID: 220-11022-3 | Date Sampled: 12/11/2009 1117
Client Matrix: Solid | % Moisture: 15.1 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56856.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/16/2009 1231			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		390	U	48	390
2-Chlorophenol		390	U	52	390
2-Methylphenol		390	U	56	390
4-Methylphenol		390	U	64	390
2-Nitrophenol		390	U	64	390
2,4-Dimethylphenol		390	U	62	390
2,4-Dichlorophenol		390	U	62	390
4-Chloro-3-methylphenol		390	U	65	390
2,4,6-Trichlorophenol		390	U	70	390
2,4,5-Trichlorophenol		390	U	75	390
2,4-Dinitrophenol		1200	U	83	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	190	1200
Bis(2-chloroethyl)ether		39	U	8.1	39
N-Nitrosodi-n-propylamine		39	U	5.1	39
Hexachloroethane		39	U	6.6	39
Nitrobenzene		39	U	8.7	39
Isophorone		390	U	45	390
Bis(2-chloroethoxy)methane		390	U	56	390
Naphthalene		390	U	57	390
4-Chloroaniline		390	U	49	390
Hexachlorobutadiene		79	U	16	79
2-Methylnaphthalene		390	U	57	390
Hexachlorocyclopentadiene		390	U	110	390
2-Chloronaphthalene		390	U	55	390
2-Nitroaniline		790	U	110	790
Dimethyl phthalate		390	U	53	390
Acenaphthylene		390	U	56	390
2,6-Dinitrotoluene		79	U	9.9	79
3-Nitroaniline		790	U	88	790
Acenaphthene		390	U	55	390
Dibenzofuran		390	U	58	390
2,4-Dinitrotoluene		79	U	11	79
Diethyl phthalate		390	U	52	390
4-Chlorophenyl phenyl ether		390	U	67	390
Fluorene		390	U	66	390
4-Nitroaniline		790	U	80	790
N-Nitrosodiphenylamine		390	U	63	390
4-Bromophenyl phenyl ether		390	U	69	390
Hexachlorobenzene		39	U	5.4	39
Phenanthrene		390	U	68	390
Anthracene		390	U	69	390
Carbazole		390	U	62	390
Di-n-butyl phthalate		390	U	60	390
Fluoranthene		220	J	65	390

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(10')**

Lab Sample ID: 220-11022-3 | Date Sampled: 12/11/2009 1117
Client Matrix: Solid | % Moisture: 15.1 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56856.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Date Analyzed:	12/16/2009 1231			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		350	J	67	390
Butyl benzyl phthalate		390	U	45	390
3,3'-Dichlorobenzidine		790	U	86	790
Benzo[a]anthracene		110		7.2	39
Chrysene		110	J	57	390
Bis(2-ethylhexyl) phthalate		390	U	52	390
Di-n-octyl phthalate		390	U	46	390
Benzo[b]fluoranthene		60		5.8	39
Benzo[k]fluoranthene		39	U	5.4	39
Benzo[a]pyrene		55		4.8	39
Indeno[1,2,3-cd]pyrene		39	U	6.2	39
Dibenz(a,h)anthracene		39	U	4.7	39
Benzo[g,h,i]perylene		390	U	41	390
1,1'-Biphenyl		390	U	64	390
Acetophenone		390	U	58	390
Benzaldehyde		390	U	24	390
Caprolactam		390	U	53	390
Atrazine		390	U	73	390
2,2'-oxybis[1-chloropropane]		390	U	51	390

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		38 - 105
Phenol-d5	74		41 - 118
Terphenyl-d14	67		16 - 151
2,4,6-Tribromophenol	74		10 - 120
2-Fluorophenol	74		37 - 125
2-Fluorobiphenyl	84		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-N(11')**

Lab Sample ID: 220-11022-4 | Date Sampled: 12/11/2009 1145
Client Matrix: Solid | % Moisture: 20.1 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56857.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1253			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		410	U	51	410
2-Chlorophenol		410	U	55	410
2-Methylphenol		410	U	60	410
4-Methylphenol		410	U	68	410
2-Nitrophenol		410	U	68	410
2,4-Dimethylphenol		410	U	66	410
2,4-Dichlorophenol		410	U	66	410
4-Chloro-3-methylphenol		410	U	69	410
2,4,6-Trichlorophenol		410	U	74	410
2,4,5-Trichlorophenol		410	U	80	410
2,4-Dinitrophenol		1300	U	88	1300
4-Nitrophenol		1300	U	110	1300
4,6-Dinitro-2-methylphenol		1300	U	200	1300
Pentachlorophenol		1300	U	200	1300
Bis(2-chloroethyl)ether		41	U	8.6	41
N-Nitrosodi-n-propylamine		41	U	5.5	41
Hexachloroethane		41	U	7.0	41
Nitrobenzene		41	U	9.3	41
Isophorone		410	U	48	410
Bis(2-chloroethoxy)methane		410	U	59	410
Naphthalene		410	U	61	410
4-Chloroaniline		410	U	52	410
Hexachlorobutadiene		84	U	17	84
2-Methylnaphthalene		410	U	60	410
Hexachlorocyclopentadiene		410	U	120	410
2-Chloronaphthalene		410	U	58	410
2-Nitroaniline		840	U	110	840
Dimethyl phthalate		410	U	56	410
Acenaphthylene		410	U	59	410
2,6-Dinitrotoluene		84	U	11	84
3-Nitroaniline		840	U	94	840
Acenaphthene		410	U	59	410
Dibenzofuran		410	U	62	410
2,4-Dinitrotoluene		84	U	12	84
Diethyl phthalate		410	U	56	410
4-Chlorophenyl phenyl ether		410	U	71	410
Fluorene		410	U	70	410
4-Nitroaniline		840	U	85	840
N-Nitrosodiphenylamine		410	U	67	410
4-Bromophenyl phenyl ether		410	U	74	410
Hexachlorobenzene		41	U	5.7	41
Phenanthrene		410	U	72	410
Anthracene		410	U	73	410
Carbazole		410	U	66	410
Di-n-butyl phthalate		410	U	63	410
Fluoranthene		270	J	69	410

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-N(11')**

Lab Sample ID: 220-11022-4 Date Sampled: 12/11/2009 1145
Client Matrix: Solid % Moisture: 20.1 Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56857.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1253			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		520		72	410
Butyl benzyl phthalate		410	U	48	410
3,3'-Dichlorobenzidine		840	U	92	840
Benzo[a]anthracene		200		7.7	41
Chrysene		210	J	60	410
Bis(2-ethylhexyl) phthalate		410	U	55	410
Di-n-octyl phthalate		410	U	49	410
Benzo[b]fluoranthene		130		6.2	41
Benzo[k]fluoranthene		54		5.8	41
Benzo[a]pyrene		97		5.1	41
Indeno[1,2,3-cd]pyrene		51		6.6	41
Dibenz(a,h)anthracene		41	U	5.0	41
Benzo[g,h,i]perylene		65	J	44	410
1,1'-Biphenyl		410	U	68	410
Acetophenone		410	U	61	410
Benzaldehyde		410	U	26	410
Caprolactam		410	U	57	410
Atrazine		410	U	77	410
2,2'-oxybis[1-chloropropane]		410	U	54	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		38 - 105
Phenol-d5	74		41 - 118
Terphenyl-d14	78		16 - 151
2,4,6-Tribromophenol	68		10 - 120
2-Fluorophenol	71		37 - 125
2-Fluorobiphenyl	79		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-20-E(9')**

Lab Sample ID: 220-11022-5 | Date Sampled: 12/11/2009 1220
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56853.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1124			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		360	U	44	360
2-Chlorophenol		360	U	48	360
2-Methylphenol		360	U	52	360
4-Methylphenol		360	U	59	360
2-Nitrophenol		360	U	60	360
2,4-Dimethylphenol		360	U	58	360
2,4-Dichlorophenol		360	U	58	360
4-Chloro-3-methylphenol		360	U	61	360
2,4,6-Trichlorophenol		360	U	65	360
2,4,5-Trichlorophenol		360	U	70	360
2,4-Dinitrophenol		1100	U	77	1100
4-Nitrophenol		1100	U	93	1100
4,6-Dinitro-2-methylphenol		1100	U	170	1100
Pentachlorophenol		1100	U	180	1100
Bis(2-chloroethyl)ether		36	U	7.6	36
N-Nitrosodi-n-propylamine		36	U	4.8	36
Hexachloroethane		36	U	6.1	36
Nitrobenzene		36	U	8.1	36
Isophorone		360	U	42	360
Bis(2-chloroethoxy)methane		360	U	52	360
Naphthalene		56	J	53	360
4-Chloroaniline		360	U	46	360
Hexachlorobutadiene		73	U	15	73
2-Methylnaphthalene		360	U	53	360
Hexachlorocyclopentadiene		360	U	110	360
2-Chloronaphthalene		360	U	51	360
2-Nitroaniline		730	U	99	730
Dimethyl phthalate		360	U	49	360
Acenaphthylene		360	U	52	360
2,6-Dinitrotoluene		73	U	9.2	73
3-Nitroaniline		730	U	82	730
Acenaphthene		120	J	52	360
Dibenzofuran		360	U	55	360
2,4-Dinitrotoluene		73	U	11	73
Diethyl phthalate		360	U	49	360
4-Chlorophenyl phenyl ether		360	U	62	360
Fluorene		360	U	61	360
4-Nitroaniline		730	U	75	730
N-Nitrosodiphenylamine		360	U	59	360
4-Bromophenyl phenyl ether		360	U	65	360
Hexachlorobenzene		36	U	5.0	36
Phenanthrene		210	J	63	360
Anthracene		200	J	64	360
Carbazole		360	U	58	360
Di-n-butyl phthalate		360	U	55	360
Fluoranthene		150	J	60	360

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-20-E(9')**

Lab Sample ID: 220-11022-5 | Date Sampled: 12/11/2009 1220
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56853.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1124			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		400		63	360
Butyl benzyl phthalate		360	U	42	360
3,3'-Dichlorobenzidine		730	U	80	730
Benzo[a]anthracene		190		6.7	36
Chrysene		260	J	53	360
Bis(2-ethylhexyl) phthalate		49	J	48	360
Di-n-octyl phthalate		360	U	43	360
Benzo[b]fluoranthene		53		5.4	36
Benzo[k]fluoranthene		36	U	5.1	36
Benzo[a]pyrene		55		4.5	36
Indeno[1,2,3-cd]pyrene		36	U	5.8	36
Dibenz(a,h)anthracene		36	U	4.4	36
Benzo[g,h,i]perylene		360	U	38	360
1,1'-Biphenyl		360	U	60	360
Acetophenone		360	U	54	360
Benzaldehyde		360	U	23	360
Caprolactam		360	U	50	360
Atrazine		360	U	68	360
2,2'-oxybis[1-chloropropane]		360	U	48	360

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	88		38 - 105
Phenol-d5	74		41 - 118
Terphenyl-d14	69		16 - 151
2,4,6-Tribromophenol	72		10 - 120
2-Fluorophenol	73		37 - 125
2-Fluorobiphenyl	87		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-30-E(9')**

Lab Sample ID: 220-11022-6 | Date Sampled: 12/11/2009 1345
Client Matrix: Solid | % Moisture: 18.7 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56860.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1359			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		410	U	50	410
2-Chlorophenol		410	U	54	410
2-Methylphenol		410	U	59	410
4-Methylphenol		410	U	67	410
2-Nitrophenol		410	U	67	410
2,4-Dimethylphenol		410	U	65	410
2,4-Dichlorophenol		410	U	65	410
4-Chloro-3-methylphenol		410	U	68	410
2,4,6-Trichlorophenol		410	U	73	410
2,4,5-Trichlorophenol		410	U	78	410
2,4-Dinitrophenol		1200	U	86	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	200	1200
Bis(2-chloroethyl)ether		41	U	8.5	41
N-Nitrosodi-n-propylamine		41	U	5.4	41
Hexachloroethane		41	U	6.9	41
Nitrobenzene		41	U	9.1	41
Isophorone		410	U	47	410
Bis(2-chloroethoxy)methane		410	U	58	410
Naphthalene		160	J	60	410
4-Chloroaniline		410	U	51	410
Hexachlorobutadiene		82	U	16	82
2-Methylnaphthalene		74	J	59	410
Hexachlorocyclopentadiene		410	U	120	410
2-Chloronaphthalene		410	U	57	410
2-Nitroaniline		820	U	110	820
Dimethyl phthalate		410	U	55	410
Acenaphthylene		79	J	58	410
2,6-Dinitrotoluene		82	U	10	82
3-Nitroaniline		820	U	92	820
Acenaphthene		390	J	58	410
Dibenzofuran		180	J	61	410
2,4-Dinitrotoluene		82	U	12	82
Diethyl phthalate		410	U	55	410
4-Chlorophenyl phenyl ether		410	U	70	410
Fluorene		390	J	69	410
4-Nitroaniline		820	U	84	820
N-Nitrosodiphenylamine		410	U	66	410
4-Bromophenyl phenyl ether		410	U	72	410
Hexachlorobenzene		41	U	5.6	41
Phenanthrene		1700		71	410
Anthracene		480		72	410
Carbazole		130	J	65	410
Di-n-butyl phthalate		410	U	62	410
Fluoranthene		950		68	410

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-2-30-E(9')**

Lab Sample ID: 220-11022-6 Date Sampled: 12/11/2009 1345
Client Matrix: Solid % Moisture: 18.7 Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56860.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1359			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		1200		70	410
Butyl benzyl phthalate		410	U	47	410
3,3'-Dichlorobenzidine		820	U	90	820
Benzo[a]anthracene		470		7.5	41
Chrysene		460		59	410
Bis(2-ethylhexyl) phthalate		410	U	54	410
Di-n-octyl phthalate		410	U	48	410
Benzo[b]fluoranthene		410		6.0	41
Benzo[k]fluoranthene		170		5.7	41
Benzo[a]pyrene		340		5.0	41
Indeno[1,2,3-cd]pyrene		190		6.5	41
Dibenz(a,h)anthracene		55		4.9	41
Benzo[g,h,i]perylene		180	J	43	410
1,1'-Biphenyl		94	J	67	410
Acetophenone		410	U	60	410
Benzaldehyde		410	U	25	410
Caprolactam		410	U	56	410
Atrazine		410	U	76	410
2,2'-oxybis[1-chloropropane]		410	U	53	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	89		38 - 105
Phenol-d5	78		41 - 118
Terphenyl-d14	80		16 - 151
2,4,6-Tribromophenol	64		10 - 120
2-Fluorophenol	72		37 - 125
2-Fluorobiphenyl	78		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-1-10-E(6')**

Lab Sample ID: 220-11022-7 | Date Sampled: 12/10/2009 1530
Client Matrix: Solid | % Moisture: 16.3 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56861.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/16/2009 1421			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		390	U	48	390
2-Chlorophenol		390	U	53	390
2-Methylphenol		390	U	57	390
4-Methylphenol		390	U	65	390
2-Nitrophenol		390	U	65	390
2,4-Dimethylphenol		390	U	63	390
2,4-Dichlorophenol		390	U	63	390
4-Chloro-3-methylphenol		390	U	66	390
2,4,6-Trichlorophenol		390	U	71	390
2,4,5-Trichlorophenol		390	U	76	390
2,4-Dinitrophenol		1200	U	84	1200
4-Nitrophenol		1200	U	100	1200
4,6-Dinitro-2-methylphenol		1200	U	190	1200
Pentachlorophenol		1200	U	190	1200
Bis(2-chloroethyl)ether		39	U	8.2	39
N-Nitrosodi-n-propylamine		39	U	5.2	39
Hexachloroethane		39	U	6.6	39
Nitrobenzene		39	U	8.8	39
Isophorone		390	U	45	390
Bis(2-chloroethoxy)methane		390	U	56	390
Naphthalene		390	U	58	390
4-Chloroaniline		390	U	50	390
Hexachlorobutadiene		80	U	16	80
2-Methylnaphthalene		390	U	58	390
Hexachlorocyclopentadiene		390	U	120	390
2-Chloronaphthalene		390	U	56	390
2-Nitroaniline		800	U	110	800
Dimethyl phthalate		390	U	53	390
Acenaphthylene		390	U	56	390
2,6-Dinitrotoluene		80	U	10	80
3-Nitroaniline		800	U	89	800
Acenaphthene		73	J	56	390
Dibenzofuran		390	U	59	390
2,4-Dinitrotoluene		80	U	12	80
Diethyl phthalate		390	U	53	390
4-Chlorophenyl phenyl ether		390	U	68	390
Fluorene		93	J	67	390
4-Nitroaniline		800	U	81	800
N-Nitrosodiphenylamine		390	U	64	390
4-Bromophenyl phenyl ether		390	U	70	390
Hexachlorobenzene		39	U	5.5	39
Phenanthrene		370	J	69	390
Anthracene		120	J	70	390
Carbazole		390	U	63	390
Di-n-butyl phthalate		390	U	60	390
Fluoranthene		330	J	66	390

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-1-10-E(6')**

Lab Sample ID: 220-11022-7 | Date Sampled: 12/10/2009 1530
Client Matrix: Solid | % Moisture: 16.3 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56861.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Date Analyzed:	12/16/2009 1421			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		350	J	68	390
Butyl benzyl phthalate		390	U	46	390
3,3'-Dichlorobenzidine		800	U	87	800
Benzo[a]anthracene		210		7.3	39
Chrysene		240	J	57	390
Bis(2-ethylhexyl) phthalate		390	U	52	390
Di-n-octyl phthalate		390	U	47	390
Benzo[b]fluoranthene		230		5.9	39
Benzo[k]fluoranthene		100		5.5	39
Benzo[a]pyrene		210		4.9	39
Indeno[1,2,3-cd]pyrene		160		6.3	39
Dibenz(a,h)anthracene		46		4.7	39
Benzo[g,h,i]perylene		150	J	42	390
1,1'-Biphenyl		390	U	65	390
Acetophenone		390	U	59	390
Benzaldehyde		390	U	25	390
Caprolactam		390	U	54	390
Atrazine		390	U	74	390
2,2'-oxybis[1-chloropropane]		390	U	52	390

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		38 - 105
Phenol-d5	70		41 - 118
Terphenyl-d14	67		16 - 151
2,4,6-Tribromophenol	68		10 - 120
2-Fluorophenol	68		37 - 125
2-Fluorobiphenyl	79		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-E(10')**

Lab Sample ID: 220-11022-8

Client Matrix: Solid

% Moisture: 12.9

Date Sampled: 12/10/2009 1350

Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56862.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1443			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		380	U	46	380
2-Chlorophenol		380	U	51	380
2-Methylphenol		380	U	55	380
4-Methylphenol		380	U	62	380
2-Nitrophenol		380	U	62	380
2,4-Dimethylphenol		380	U	61	380
2,4-Dichlorophenol		380	U	61	380
4-Chloro-3-methylphenol		380	U	64	380
2,4,6-Trichlorophenol		380	U	68	380
2,4,5-Trichlorophenol		380	U	73	380
2,4-Dinitrophenol		1100	U	81	1100
4-Nitrophenol		1100	U	98	1100
4,6-Dinitro-2-methylphenol		1100	U	180	1100
Pentachlorophenol		1100	U	190	1100
Bis(2-chloroethyl)ether		38	U	7.9	38
N-Nitrosodi-n-propylamine		38	U	5.0	38
Hexachloroethane		38	U	6.4	38
Nitrobenzene		38	U	8.5	38
Isophorone		380	U	44	380
Bis(2-chloroethoxy)methane		380	U	54	380
Naphthalene		380	U	56	380
4-Chloroaniline		380	U	48	380
Hexachlorobutadiene		77	U	15	77
2-Methylnaphthalene		380	U	55	380
Hexachlorocyclopentadiene		380	U	110	380
2-Chloronaphthalene		380	U	54	380
2-Nitroaniline		770	U	100	770
Dimethyl phthalate		380	U	51	380
Acenaphthylene		380	U	54	380
2,6-Dinitrotoluene		77	U	9.7	77
3-Nitroaniline		770	U	86	770
Acenaphthene		380	U	54	380
Dibenzofuran		380	U	57	380
2,4-Dinitrotoluene		77	U	11	77
Diethyl phthalate		380	U	51	380
4-Chlorophenyl phenyl ether		380	U	65	380
Fluorene		380	U	64	380
4-Nitroaniline		770	U	78	770
N-Nitrosodiphenylamine		380	U	62	380
4-Bromophenyl phenyl ether		380	U	68	380
Hexachlorobenzene		38	U	5.3	38
Phenanthrene		420		66	380
Anthracene		98	J	67	380
Carbazole		61	J	60	380
Di-n-butyl phthalate		380	U	58	380
Fluoranthene		560		63	380

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-E(10')**

Lab Sample ID: 220-11022-8 | Date Sampled: 12/10/2009 1350
Client Matrix: Solid | % Moisture: 12.9 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56862.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1443			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		590		66	380
Butyl benzyl phthalate		380	U	44	380
3,3'-Dichlorobenzidine		770	U	84	770
Benzo[a]anthracene		340		7.0	38
Chrysene		320	J	55	380
Bis(2-ethylhexyl) phthalate		380	U	50	380
Di-n-octyl phthalate		380	U	45	380
Benzo[b]fluoranthene		380		5.6	38
Benzo[k]fluoranthene		150		5.3	38
Benzo[a]pyrene		270		4.7	38
Indeno[1,2,3-cd]pyrene		190		6.1	38
Dibenz(a,h)anthracene		68		4.6	38
Benzo[g,h,i]perylene		180	J	40	380
1,1'-Biphenyl		380	U	63	380
Acetophenone		380	U	56	380
Benzaldehyde		380	U	24	380
Caprolactam		380	U	52	380
Atrazine		380	U	71	380
2,2'-oxybis[1-chloropropane]		380	U	50	380

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	88		38 - 105
Phenol-d5	81		41 - 118
Terphenyl-d14	83		16 - 151
2,4,6-Tribromophenol	50		10 - 120
2-Fluorophenol	77		37 - 125
2-Fluorobiphenyl	77		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-7-20-S(10')**

Lab Sample ID: 220-11022-9 | Date Sampled: 12/10/2009 1325
Client Matrix: Solid | % Moisture: 7.0 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56863.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1505			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		350	U	44	350
2-Chlorophenol		350	U	48	350
2-Methylphenol		350	U	51	350
4-Methylphenol		350	U	58	350
2-Nitrophenol		350	U	59	350
2,4-Dimethylphenol		350	U	57	350
2,4-Dichlorophenol		350	U	57	350
4-Chloro-3-methylphenol		350	U	60	350
2,4,6-Trichlorophenol		350	U	64	350
2,4,5-Trichlorophenol		350	U	69	350
2,4-Dinitrophenol		1100	U	76	1100
4-Nitrophenol		1100	U	91	1100
4,6-Dinitro-2-methylphenol		1100	U	170	1100
Pentachlorophenol		1100	U	170	1100
Bis(2-chloroethyl)ether		35	U	7.4	35
N-Nitrosodi-n-propylamine		35	U	4.7	35
Hexachloroethane		35	U	6.0	35
Nitrobenzene		35	U	8.0	35
Isophorone		350	U	41	350
Bis(2-chloroethoxy)methane		350	U	51	350
Naphthalene		67	J	52	350
4-Chloroaniline		350	U	45	350
Hexachlorobutadiene		72	U	14	72
2-Methylnaphthalene		100	J	52	350
Hexachlorocyclopentadiene		350	U	100	350
2-Chloronaphthalene		350	U	50	350
2-Nitroaniline		720	U	97	720
Dimethyl phthalate		350	U	48	350
Acenaphthylene		350	U	51	350
2,6-Dinitrotoluene		72	U	9.0	72
3-Nitroaniline		720	U	80	720
Acenaphthene		350	U	51	350
Dibenzofuran		350	U	53	350
2,4-Dinitrotoluene		72	U	10	72
Diethyl phthalate		350	U	48	350
4-Chlorophenyl phenyl ether		350	U	61	350
Fluorene		350	U	60	350
4-Nitroaniline		720	U	73	720
N-Nitrosodiphenylamine		350	U	58	350
4-Bromophenyl phenyl ether		350	U	63	350
Hexachlorobenzene		35	U	4.9	35
Phenanthrene		130	J	62	350
Anthracene		350	U	63	350
Carbazole		350	U	57	350
Di-n-butyl phthalate		350	U	54	350
Fluoranthene		190	J	59	350

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Client Sample ID: **PBL-7-20-S(10')**

Lab Sample ID: 220-11022-9 Date Sampled: 12/10/2009 1325
Client Matrix: Solid % Moisture: 7.0 Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56863.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/16/2009 1505			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		250	J	62	350
Butyl benzyl phthalate		350	U	42	350
3,3'-Dichlorobenzidine		720	U	79	720
Benzo[a]anthracene		150		6.6	35
Chrysene		180	J	52	350
Bis(2-ethylhexyl) phthalate		160	J	47	350
Di-n-octyl phthalate		350	U	42	350
Benzo[b]fluoranthene		250		5.3	35
Benzo[k]fluoranthene		94		5.0	35
Benzo[a]pyrene		170		4.4	35
Indeno[1,2,3-cd]pyrene		140		5.7	35
Dibenz(a,h)anthracene		39		4.3	35
Benzo[g,h,i]perylene		160	J	38	350
1,1'-Biphenyl		350	U	59	350
Acetophenone		350	U	53	350
Benzaldehyde		350	U	22	350
Caprolactam		350	U	49	350
Atrazine		350	U	66	350
2,2'-oxybis[1-chloropropane]		350	U	47	350

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	90		38 - 105
Phenol-d5	82		41 - 118
Terphenyl-d14	82		16 - 151
2,4,6-Tribromophenol	52		10 - 120
2-Fluorophenol	77		37 - 125
2-Fluorobiphenyl	88		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-S(11')**

Lab Sample ID: 220-11022-10 | Date Sampled: 12/11/2009 1440
Client Matrix: Solid | % Moisture: 28.9 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56855.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/16/2009 1209			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		460	U	57	460
2-Chlorophenol		460	U	62	460
2-Methylphenol		460	U	67	460
4-Methylphenol		460	U	76	460
2-Nitrophenol		460	U	76	460
2,4-Dimethylphenol		460	U	74	460
2,4-Dichlorophenol		460	U	74	460
4-Chloro-3-methylphenol		460	U	78	460
2,4,6-Trichlorophenol		460	U	83	460
2,4,5-Trichlorophenol		460	U	89	460
2,4-Dinitrophenol		1400	U	99	1400
4-Nitrophenol		1400	U	120	1400
4,6-Dinitro-2-methylphenol		1400	U	220	1400
Pentachlorophenol		1400	U	230	1400
Bis(2-chloroethyl)ether		46	U	9.7	46
N-Nitrosodi-n-propylamine		46	U	6.1	46
Hexachloroethane		46	U	7.8	46
Nitrobenzene		46	U	10	46
Isophorone		460	U	53	460
Bis(2-chloroethoxy)methane		460	U	66	460
Naphthalene		460	U	68	460
4-Chloroaniline		460	U	58	460
Hexachlorobutadiene		94	U	19	94
2-Methylnaphthalene		460	U	68	460
Hexachlorocyclopentadiene		460	U	140	460
2-Chloronaphthalene		460	U	66	460
2-Nitroaniline		940	U	130	940
Dimethyl phthalate		460	U	63	460
Acenaphthylene		460	U	66	460
2,6-Dinitrotoluene		94	U	12	94
3-Nitroaniline		940	U	110	940
Acenaphthene		460	U	66	460
Dibenzofuran		460	U	70	460
2,4-Dinitrotoluene		94	U	14	94
Diethyl phthalate		460	U	62	460
4-Chlorophenyl phenyl ether		460	U	80	460
Fluorene		460	U	79	460
4-Nitroaniline		940	U	96	940
N-Nitrosodiphenylamine		460	U	76	460
4-Bromophenyl phenyl ether		460	U	83	460
Hexachlorobenzene		46	U	6.4	46
Phenanthrene		460	U	81	460
Anthracene		460	U	82	460
Carbazole		460	U	74	460
Di-n-butyl phthalate		460	U	71	460
Fluoranthene		94	J	77	460

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-S(11')**

Lab Sample ID: 220-11022-10 | Date Sampled: 12/11/2009 1440
Client Matrix: Solid | % Moisture: 28.9 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56855.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/16/2009 1209			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		110	J	80	460
Butyl benzyl phthalate		460	U	54	460
3,3'-Dichlorobenzidine		940	U	100	940
Benzo[a]anthracene		46	U	8.6	46
Chrysene		460	U	68	460
Bis(2-ethylhexyl) phthalate		160	J	62	460
Di-n-octyl phthalate		460	U	55	460
Benzo[b]fluoranthene		30	J	6.9	46
Benzo[k]fluoranthene		46	U	6.5	46
Benzo[a]pyrene		46	U	5.7	46
Indeno[1,2,3-cd]pyrene		46	U	7.4	46
Dibenz(a,h)anthracene		46	U	5.6	46
Benzo[g,h,i]perylene		460	U	49	460
1,1'-Biphenyl		460	U	77	460
Acetophenone		460	U	69	460
Benzaldehyde		460	U	29	460
Caprolactam		460	U	64	460
Atrazine		460	U	87	460
2,2'-oxybis[1-chloropropane]		460	U	61	460

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	95		38 - 105
Phenol-d5	77		41 - 118
Terphenyl-d14	73		16 - 151
2,4,6-Tribromophenol	85		10 - 120
2-Fluorophenol	81		37 - 125
2-Fluorobiphenyl	71		40 - 109

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-S(6')**

Lab Sample ID: 220-11022-11 | Date Sampled: 12/11/2009 1439
Client Matrix: Solid | % Moisture: 9.5 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56852.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/16/2009 1102			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		360	U	45	360
2-Chlorophenol		360	U	49	360
2-Methylphenol		360	U	53	360
4-Methylphenol		360	U	60	360
2-Nitrophenol		360	U	60	360
2,4-Dimethylphenol		360	U	58	360
2,4-Dichlorophenol		360	U	58	360
4-Chloro-3-methylphenol		360	U	61	360
2,4,6-Trichlorophenol		360	U	65	360
2,4,5-Trichlorophenol		360	U	70	360
2,4-Dinitrophenol		1100	U	77	1100
4-Nitrophenol		1100	U	94	1100
4,6-Dinitro-2-methylphenol		1100	U	170	1100
Pentachlorophenol		1100	U	180	1100
Bis(2-chloroethyl)ether		36	U	7.6	36
N-Nitrosodi-n-propylamine		36	U	4.8	36
Hexachloroethane		36	U	6.2	36
Nitrobenzene		36	U	8.2	36
Isophorone		360	U	42	360
Bis(2-chloroethoxy)methane		360	U	52	360
Naphthalene		360	U	53	360
4-Chloroaniline		360	U	46	360
Hexachlorobutadiene		74	U	15	74
2-Methylnaphthalene		360	U	53	360
Hexachlorocyclopentadiene		360	U	110	360
2-Chloronaphthalene		360	U	52	360
2-Nitroaniline		740	U	100	740
Dimethyl phthalate		360	U	49	360
Acenaphthylene		360	U	52	360
2,6-Dinitrotoluene		74	U	9.3	74
3-Nitroaniline		740	U	83	740
Acenaphthene		360	U	52	360
Dibenzofuran		360	U	55	360
2,4-Dinitrotoluene		74	U	11	74
Diethyl phthalate		360	U	49	360
4-Chlorophenyl phenyl ether		360	U	63	360
Fluorene		360	U	62	360
4-Nitroaniline		740	U	75	740
N-Nitrosodiphenylamine		360	U	59	360
4-Bromophenyl phenyl ether		360	U	65	360
Hexachlorobenzene		36	U	5.1	36
Phenanthrene		360	U	64	360
Anthracene		360	U	64	360
Carbazole		360	U	58	360
Di-n-butyl phthalate		360	U	56	360
Fluoranthene		360	U	61	360

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-S(6')**

Lab Sample ID: 220-11022-11 | Date Sampled: 12/11/2009 1439
Client Matrix: Solid | % Moisture: 9.5 | Date Received: 12/11/2009 1740

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 460-25630		Instrument ID:	BNAMS4
Preparation:	3541	Prep Batch: 460-25536		Lab File ID:	u56852.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/16/2009 1102			Final Weight/Volume:	1 mL
Date Prepared:	12/15/2009 1939			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Pyrene		360	U	63	360
Butyl benzyl phthalate		360	U	43	360
3,3'-Dichlorobenzidine		740	U	81	740
Benzo[a]anthracene		36	U	6.8	36
Chrysene		360	U	53	360
Bis(2-ethylhexyl) phthalate		360	U	48	360
Di-n-octyl phthalate		360	U	43	360
Benzo[b]fluoranthene		36	U	5.4	36
Benzo[k]fluoranthene		36	U	5.1	36
Benzo[a]pyrene		36	U	4.5	36
Indeno[1,2,3-cd]pyrene		36	U	5.8	36
Dibenz(a,h)anthracene		36	U	4.4	36
Benzo[g,h,i]perylene		360	U	39	360
1,1'-Biphenyl		360	U	60	360
Acetophenone		360	U	54	360
Benzaldehyde		360	U	23	360
Caprolactam		360	U	50	360
Atrazine		360	U	68	360
2,2'-oxybis[1-chloropropane]		360	U	48	360

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		38 - 105
Phenol-d5	80		41 - 118
Terphenyl-d14	62		16 - 151
2,4,6-Tribromophenol	78		10 - 120
2-Fluorophenol	75		37 - 125
2-Fluorobiphenyl	72		40 - 109

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-1-20-E(8')**

Lab Sample ID: 220-11022-1
Client Matrix: Solid
% Moisture: 22.6
Date Sampled: 12/11/2009 1030
Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/15/2009 1618
Date Prepared: 12/14/2009 1018
Analysis Batch: 220-34318
Prep Batch: 220-34223
Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.14 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.26	J	0.11	0.57
Aluminum		6570		5.7	28.3
Arsenic		11.7		0.11	0.57
Barium		200		0.17	0.57
Beryllium		0.56	J	0.17	0.57
Calcium		18700		17.0	56.7
Cadmium		0.62		0.11	0.57
Cobalt		11.6		0.11	0.57
Chromium		12.4		0.23	1.1
Copper		345		0.11	1.1
Iron		14800		9.1	28.3
Potassium		1240		5.7	56.7
Magnesium		7960		5.7	56.7
Manganese		298		0.23	1.4
Sodium		164		18.7	56.7
Nickel		22.9		0.11	0.57
Lead		878		0.11	0.57
Antimony		4.5		0.23	0.91
Selenium		1.8		0.34	1.1
Thallium		0.79	U	0.23	0.79
Vanadium		22.1		0.11	0.57
Zinc		489		0.57	5.7

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/15/2009 1505
Date Prepared: 12/14/2009 1146
Analysis Batch: 220-34315
Prep Batch: 220-34239
Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.35		0.0049	0.062

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(6')**

Lab Sample ID: 220-11022-2 | Date Sampled: 12/11/2009 1115
Client Matrix: Solid | % Moisture: 16.9 | Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34223	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.05 g
Date Analyzed:	12/15/2009 1621		Final Weight/Volume: 1000 mL
Date Prepared:	12/14/2009 1018		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.57	U	0.11	0.57
Aluminum		7580		5.7	28.7
Arsenic		5.8		0.11	0.57
Barium		37.7		0.17	0.57
Beryllium		0.39	J	0.17	0.57
Calcium		15900		17.2	57.3
Cadmium		0.57	U	0.11	0.57
Cobalt		5.3		0.11	0.57
Chromium		14.3		0.23	1.1
Copper		18.4		0.11	1.1
Iron		19500		9.2	28.7
Potassium		1270		5.7	57.3
Magnesium		2790		5.7	57.3
Manganese		249		0.23	1.4
Sodium		591		18.9	57.3
Nickel		12.3		0.11	0.57
Lead		32.8		0.11	0.57
Antimony		0.92	U	0.23	0.92
Selenium		1.3		0.34	1.1
Thallium		0.80	U	0.23	0.80
Vanadium		27.2		0.11	0.57
Zinc		54.6		0.57	5.7

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315	Instrument ID: MERC1
Preparation:	7471A	Prep Batch: 220-34239	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.63 g
Date Analyzed:	12/15/2009 1507		Final Weight/Volume: 50 mL
Date Prepared:	12/14/2009 1146		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.11		0.0046	0.057

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-E(10')**

Lab Sample ID: 220-11022-3 | Date Sampled: 12/11/2009 1117
Client Matrix: Solid | % Moisture: 15.1 | Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34223	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.05 g
Date Analyzed:	12/15/2009 1625		Final Weight/Volume: 1000 mL
Date Prepared:	12/14/2009 1018		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.56	U	0.11	0.56
Aluminum		11300		5.6	28.0
Arsenic		5.1		0.11	0.56
Barium		64.4		0.17	0.56
Beryllium		0.49	J	0.17	0.56
Calcium		2170		16.8	56.1
Cadmium		0.56	U	0.11	0.56
Cobalt		8.7		0.11	0.56
Chromium		19.1		0.22	1.1
Copper		23.8		0.11	1.1
Iron		20300		9.0	28.0
Potassium		2200		5.6	56.1
Magnesium		3560		5.6	56.1
Manganese		430		0.22	1.4
Sodium		1340		18.5	56.1
Nickel		18.2		0.11	0.56
Lead		34.1		0.11	0.56
Antimony		0.90	U	0.22	0.90
Selenium		1.2		0.34	1.1
Thallium		0.79	U	0.22	0.79
Vanadium		39.5		0.11	0.56
Zinc		55.0		0.56	5.6

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315	Instrument ID: MERC1
Preparation:	7471A	Prep Batch: 220-34239	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.64 g
Date Analyzed:	12/15/2009 1510		Final Weight/Volume: 50 mL
Date Prepared:	12/14/2009 1146		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.086		0.0044	0.055

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-10-N(11')**

Lab Sample ID: 220-11022-4 | Date Sampled: 12/11/2009 1145
Client Matrix: Solid | % Moisture: 20.1 | Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Date Analyzed:	12/15/2009 1628			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.55	U	0.11	0.55
Aluminum		8860		5.5	27.7
Arsenic		5.6		0.11	0.55
Barium		40.0		0.17	0.55
Beryllium		0.42	J	0.17	0.55
Calcium		2540		16.6	55.4
Cadmium		0.55	U	0.11	0.55
Cobalt		7.8		0.11	0.55
Chromium		14.3		0.22	1.1
Copper		18.0		0.11	1.1
Iron		18300		8.9	27.7
Potassium		1350		5.5	55.4
Magnesium		2880		5.5	55.4
Manganese		272		0.22	1.4
Sodium		1280		18.3	55.4
Nickel		15.1		0.11	0.55
Lead		25.4		0.11	0.55
Antimony		0.89	U	0.22	0.89
Selenium		1.3		0.33	1.1
Thallium		0.78	U	0.22	0.78
Vanadium		21.5		0.11	0.55
Zinc		68.4		0.55	5.5

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34239		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	12/15/2009 1511			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.066		0.0047	0.059

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-2-20-E(9')**

Lab Sample ID: 220-11022-5
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 12/11/2009 1220
Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.28 g
Date Analyzed:	12/15/2009 1632			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.43	U	0.086	0.43
Aluminum		6690		4.3	21.4
Arsenic		1.5		0.086	0.43
Barium		45.0		0.13	0.43
Beryllium		0.13	J	0.13	0.43
Calcium		21600		12.9	42.8
Cadmium		0.43	U	0.086	0.43
Cobalt		3.2		0.086	0.43
Chromium		9.6		0.17	0.86
Copper		7.2		0.086	0.86
Iron		10700		6.9	21.4
Potassium		1210		4.3	42.8
Magnesium		5910		4.3	42.8
Manganese		143		0.17	1.1
Sodium		1050		14.1	42.8
Nickel		12.4		0.086	0.43
Lead		8.7		0.086	0.43
Antimony		0.69	U	0.17	0.69
Selenium		0.62	J	0.26	0.86
Thallium		0.60	U	0.17	0.60
Vanadium		11.1		0.086	0.43
Zinc		23.7		0.43	4.3

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34239		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	12/15/2009 1513			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.021	J	0.0042	0.053

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-2-30-E(9')**

Lab Sample ID: 220-11022-6 | Date Sampled: 12/11/2009 1345
Client Matrix: Solid | % Moisture: 18.7 | Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.48 g
Date Analyzed:	12/15/2009 1648			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.42	U	0.083	0.42
Aluminum		8530		4.2	20.8
Arsenic		4.6		0.083	0.42
Barium		33.8		0.12	0.42
Beryllium		0.26	J	0.12	0.42
Calcium		8030		12.5	41.5
Cadmium		0.42	U	0.083	0.42
Cobalt		5.1		0.083	0.42
Chromium		13.0		0.17	0.83
Copper		12.4		0.083	0.83
Iron		12100		6.6	20.8
Potassium		1350		4.2	41.5
Magnesium		3190		4.2	41.5
Manganese		220		0.17	1.0
Sodium		495		13.7	41.5
Nickel		17.1		0.083	0.42
Lead		24.0		0.083	0.42
Antimony		0.66	U	0.17	0.66
Selenium		0.76	J	0.25	0.83
Thallium		0.58	U	0.17	0.58
Vanadium		16.2		0.083	0.42
Zinc		31.7		0.42	4.2

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34239		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	12/15/2009 1514			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.062		0.0048	0.060

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-1-10-E(6')**

Lab Sample ID: 220-11022-7 | Date Sampled: 12/10/2009 1530
Client Matrix: Solid | % Moisture: 16.3 | Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Date Analyzed:	12/15/2009 1652			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.56	U	0.11	0.56
Aluminum		9390		5.6	27.9
Arsenic		2.4		0.11	0.56
Barium		56.1		0.17	0.56
Beryllium		0.69		0.17	0.56
Calcium		6450		16.7	55.8
Cadmium		0.56	U	0.11	0.56
Cobalt		7.6		0.11	0.56
Chromium		22.4		0.22	1.1
Copper		15.9		0.11	1.1
Iron		16600		8.9	27.9
Potassium		2390		5.6	55.8
Magnesium		4580		5.6	55.8
Manganese		174		0.22	1.4
Sodium		123		18.4	55.8
Nickel		28.7		0.11	0.56
Lead		12.1		0.11	0.56
Antimony		0.89	U	0.22	0.89
Selenium		1.2		0.33	1.1
Thallium		0.78	U	0.22	0.78
Vanadium		23.2		0.11	0.56
Zinc		48.3		0.56	5.6

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34241		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Date Analyzed:	12/15/2009 1519			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1331				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.018	J	0.0048	0.060

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-E(10')**

Lab Sample ID: 220-11022-8
Client Matrix: Solid
% Moisture: 12.9

Date Sampled: 12/10/2009 1350
Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Date Analyzed:	12/15/2009 1655			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.50	U	0.10	0.50
Aluminum		8470		5.0	25.2
Arsenic		23.4		0.10	0.50
Barium		248		0.15	0.50
Beryllium		0.54		0.15	0.50
Calcium		69200		15.1	50.3
Cadmium		1.2		0.10	0.50
Cobalt		5.6		0.10	0.50
Chromium		16.9		0.20	1.0
Copper		46.2		0.10	1.0
Iron		29100		8.1	25.2
Potassium		1080		5.0	50.3
Magnesium		5820		5.0	50.3
Manganese		333		0.20	1.3
Sodium		604		16.6	50.3
Nickel		16.5		0.10	0.50
Lead		467		0.10	0.50
Antimony		0.23	J	0.20	0.81
Selenium		1.3		0.30	1.0
Thallium		0.70	U	0.20	0.70
Vanadium		20.5		0.10	0.50
Zinc		381		0.50	5.0

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34241		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	12/15/2009 1520			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1331				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.71		0.0045	0.056

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-7-20-S(10')**

Lab Sample ID: 220-11022-9
Client Matrix: Solid
% Moisture: 7.0

Date Sampled: 12/10/2009 1325
Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318	Instrument ID: ICPMS
Preparation:	3050B	Prep Batch: 220-34223	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.19 g
Date Analyzed:	12/15/2009 1659		Final Weight/Volume: 1000 mL
Date Prepared:	12/14/2009 1018		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.26	J	0.090	0.45
Aluminum		7760		4.5	22.6
Arsenic		121		0.090	0.45
Barium		151		0.14	0.45
Beryllium		0.62		0.14	0.45
Calcium		42700		13.6	45.2
Cadmium		1.4		0.090	0.45
Cobalt		5.8		0.090	0.45
Chromium		27.0		0.18	0.90
Copper		65.9		0.090	0.90
Iron		44500		7.2	22.6
Potassium		1500		4.5	45.2
Magnesium		6620		4.5	45.2
Manganese		361		0.18	1.1
Sodium		713		14.9	45.2
Nickel		31.2		0.090	0.45
Lead		295		0.090	0.45
Antimony		1.4		0.18	0.72
Selenium		5.2		0.27	0.90
Thallium		0.40	J	0.18	0.63
Vanadium		23.2		0.090	0.45
Zinc		316		0.45	4.5

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315	Instrument ID: MERC1
Preparation:	7471A	Prep Batch: 220-34241	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.61 g
Date Analyzed:	12/15/2009 1521		Final Weight/Volume: 50 mL
Date Prepared:	12/14/2009 1331		

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.33		0.0042	0.053

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-S(11')**

Lab Sample ID: 220-11022-10
Client Matrix: Solid
% Moisture: 28.9
Date Sampled: 12/11/2009 1440
Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Date Analyzed:	12/15/2009 1702			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.49	J	0.13	0.64
Aluminum		9740		6.4	32.0
Arsenic		1270		0.13	0.64
Barium		282		0.19	0.64
Beryllium		2.6		0.19	0.64
Calcium		20000		19.2	63.9
Cadmium		1.1		0.13	0.64
Cobalt		17.1		0.13	0.64
Chromium		48.1		0.26	1.3
Copper		118		0.13	1.3
Iron		55000		10.2	32.0
Potassium		1390		6.4	63.9
Magnesium		6170		6.4	63.9
Manganese		383		0.26	1.6
Sodium		600		21.1	63.9
Nickel		86.7		0.13	0.64
Lead		706		0.13	0.64
Antimony		3.5		0.26	1.0
Selenium		35.8		0.38	1.3
Thallium		5.5		0.26	0.89
Vanadium		62.4		0.13	0.64
Zinc		396		0.64	6.4

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34241		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	12/15/2009 1523			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1331				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.45		0.0054	0.067

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11022-1

Client Sample ID: **PBL-8-20-S(6')**

Lab Sample ID: 220-11022-11 | Date Sampled: 12/11/2009 1439
Client Matrix: Solid | % Moisture: 9.5 | Date Received: 12/11/2009 1740

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.25 g
Date Analyzed:	12/15/2009 1706			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.44	U	0.088	0.44
Aluminum		9200		4.4	22.1
Arsenic		229		0.088	0.44
Barium		48.1		0.13	0.44
Beryllium		0.52		0.13	0.44
Calcium		38300		13.3	44.2
Cadmium		0.44	U	0.088	0.44
Cobalt		5.0		0.088	0.44
Chromium		26.5		0.18	0.88
Copper		20.8		0.088	0.88
Potassium		2190		4.4	44.2
Magnesium		979		4.4	44.2
Manganese		422		0.18	1.1
Sodium		1480		14.6	44.2
Nickel		21.9		0.088	0.44
Lead		36.5		0.088	0.44
Antimony		0.56	J	0.18	0.71
Selenium		9.1		0.27	0.88
Thallium		0.55	J	0.18	0.62
Vanadium		15.3		0.088	0.44
Zinc		35.3		0.44	4.4

Method:	6020	Analysis Batch: 220-34318		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34223		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	1.25 g
Date Analyzed:	12/15/2009 1745			Final Weight/Volume:	1000 mL
Date Prepared:	12/14/2009 1018				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		98900		35.4	110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34315		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34241		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	12/15/2009 1526			Final Weight/Volume:	50 mL
Date Prepared:	12/14/2009 1331				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.22		0.0043	0.054

General Chemistry

Client Sample ID: **PBL-1-20-E(8')**

Lab Sample ID: 220-11022-1 Date Sampled: 12/11/2009 1030

Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	22.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	77.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-10-E(6')**

Lab Sample ID: 220-11022-2 Date Sampled: 12/11/2009 1115
Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	83.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-10-E(10')**

Lab Sample ID: 220-11022-3 Date Sampled: 12/11/2009 1117

Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	84.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-10-N(11')**

Lab Sample ID: 220-11022-4 Date Sampled: 12/11/2009 1145
Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	79.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-20-E(9')**

Lab Sample ID: 220-11022-5 Date Sampled: 12/11/2009 1220
Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	91.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-30-E(9')**

Lab Sample ID: 220-11022-6 Date Sampled: 12/11/2009 1345

Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	81.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-1-10-E(6')**

Lab Sample ID: 220-11022-7 Date Sampled: 12/10/2009 1530

Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	83.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-20-E(10')**

Lab Sample ID: 220-11022-8 Date Sampled: 12/10/2009 1350

Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	87.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-7-20-S(10')**

Lab Sample ID: 220-11022-9 Date Sampled: 12/10/2009 1325
Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	93.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-20-S(11')**

Lab Sample ID: 220-11022-10 Date Sampled: 12/11/2009 1440
Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	28.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	71.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-20-S(6')**

Lab Sample ID: 220-11022-11 Date Sampled: 12/11/2009 1439

Client Matrix: Solid Date Received: 12/11/2009 1740

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N
Percent Solids	90.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34219	Date Analyzed: 12/13/2009 1905						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11022-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	*	Surrogate exceeds the control limit
	B	The analyte was found in an associated blank, as well as in the sample.
	J	Indicates an estimated value.
	U	Analyzed for but not detected.
GC/MS Semi VOA		
	J	Indicates an estimated value.
	U	Analyzed for but not detected.
Metals		
	J	Sample result is greater than the MDL but below the CRDL
	U	Indicates analyzed for but not detected.

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Erika Cozza	**Field Sampler:** E. Cozza	**TAT Required (business days):** 48 hr.	**Lab PM/Contact:**	**COC Number:** 10402
Company: Shaw E&I	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 11022	**Page** 1 of 2
Address: 92 North Ave.	**E-Mail:** erika.cozza@shawgrp.com	**Deliverable Type (Report/EDD):**	**Passed Rad Screen (Lab Use Only):** [X] Yes [ ] No	**Carrier Tracking Notes:**
City, State, Zip: New Rochelle NY 10801	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):** Probe 1.0°C	
Phone: 914-633-9348	**WO #:**			
Email: erika.cozza@shawgrp.com	**Project #:** 1266649	**State Regulatory QC Criteria Requirements:**		
Project Name/Site Location (State): Kent Ave.	**SSOW#:**			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

PA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	Analysis: VOC 8260	BN 8270	TAL Metals	Comments
1	PBL-1-20-E(8')	12/11/09	1030	S		2							X	X	X	
2	PBL-2-10-E (6')	12/11/09	1115	S		2							X	X	X	
3	PBL-2-10-E(10')	12/11/09	1117	S		2							X	X	X	
4	PBL-2-10-N(11')	12/11/09	1145	S		2							X	X	X	
5	PBL-2-20-E(9')	12/11/09	1220	S		2							X	X	X	
6	PBL-2-30-E(9')	12/11/09	1345	S		2							X	X	X	
7	PBL-1-10-E (6')	12/10/09	1530	S		2							X	X	X	
8	PBL-8-20-E(10')	12/10/09	1350	S		1								X	X	
9	PBL-7-20-S(10')	12/10/09	1325	S		1								X	X	
10	PBL-8-20-S (11')	12/11/09	1440	S		1								X	X	

Relinquished by:	Date/Time: 12/11/09 1455	Company: Shaw	Received by:	Date/Time: 12/11/09 1455	Company: TACT
Relinquished by:	Date/Time: 12/11/09 1740	Company: TACT	Received by:	Date/Time: 12/11/09 1740	Company: TACT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

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12/16/2009

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Erika Cozza	**Field Sampler:** E. Cozza	**TAT Required (business days):** 48hr.	**Lab PM/Contact:**	**COC Number:** 10403
Company: Shaw E+I	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 11022	**Page** 2 of 2
Address: 92 North Ave,	**E-Mail:** same	**Deliverable Type (Report/EDD):**	**Passed Rad Screen (Lab Use Only):** [✓] Yes [ ] No	**Carrier Tracking Notes:**
City, State, Zip: New Rochelle, NY 10801	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):** ambient 1.0°C	
Phone: 914-633-9324	**WO #:**			
Email: erika.cozza@shawgrp.com	**Project #:** 126649	**State Regulatory QC Criteria Requirements:**		
Project Name/Site Location (State): Kent Ave.	**SSOW#:**			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	Analysis (Attach list if more space is needed): BN 8270	TAL Metals	Comments
11	PBL-8-20-S (6')	12/11/09	1439	S		1							X	X	

Relinquished by:	Date/Time: 12/11/09 1455	Company: Shaw	Received by:	Date/Time: 12/11/09 1455	Company: TACT
Relinquished by:	Date/Time: 12/11/09 1740	Company: TACT	Received by:	Date/Time: 12/11/09 1740	Company: TACT
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 220-11066-1

Job Description: Con Edison, Kent Avenue Generating

For:
Shaw Environmental & Infrastructure, Inc
101-1 Colin Drive
Holbrook, NY 11741

Attention: Mr. Saul Ash

Approved for release.
Patty A Mercure
1/7/2010 1:14 PM

Designee for
Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
01/07/2010

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484
Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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Case Narrative for Job: 220-11066-1

Client: Shaw Environmental & Infrastructure, Inc
Date: January 7, 2010

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Lawrence Decker
Laboratory Director

January 7, 2010
Date

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: Internal standard (ISTD) response and surrogate recovery for the following samples were outside control limits: PBL-2-60-E(4') (220-11066-8), PBL-2-60-E(4') F.D. (220-11066-9). The samples were re-analyzed with concurring results. The original set of data has been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C: The following sample was diluted due to the nature of the sample matrix: PBL-5-10-S(2') (220-11066-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals
Method(s) 6020: The low level check standard recovery associated with batch 34591 run on 12/22/09 at 14:22 was outside the acceptance criteria for aluminum at 133%, potassium at 138% and antimony at 135%.

Method(s) 6020: The method blank for preparation batch 34475 run on 12/22/09 at 18:05 contained iron above the reporting limit (RL). The associated samples contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-digestion and/or re-analysis of samples was not performed.

Method(s) 6020: The low level check standard recovery associated with batch 34609 run on 12/23/09 at 11:48 was outside the acceptance criteria for aluminum at 143%, potassium at 143%, antimony at 169% and thallium at 64%.

Method(s) 6020: The laboratory control sample (LCS) for preparation batch 34494 run on 12/23/09 at 12:41 exceeded control limits for aluminum at 129%. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

Method(s) 6020: The initial calibration blank (ICB) for batch 34591 run on 12/22/09 at 14:12 contained antimony above the reporting limit (RL). This target analyte concentration was less than the project-specific action limit; therefore, re-analysis of samples was not performed.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

FORMULAS FOR NYSDEC SAMPLE CALCULATIONS

Volatiles

(Ax)(IS)(DF)
(AIS)(RRF)(V)(% solids) = C

(AX)(IS)(VT)(1000)(DF)
(AIS)(RRF)(VA)(V)(% solids) = C (for medium level soils)

SemiVolatiles

(AX)(IS)(VE)(DF)(GPC factor is 2 if needed)
(AIS)(RRF)(volume injected)(V)(% solids) = C

Pesticides

(AX)(VE)(DF)
(RRF)(V)(% solids)(volume injected) = C

PCBs for compound/retention time

(AX)(VE)(DF)
(RRF of compound at the stated retention time)(V)(% solids)(volume injected) = C

DRO/CTETPH

(AX)(VE)(DF)
(RRF)(V)(% solids)(volume injected) = C

AX = area of the target Ion
AIS = Area of Internal standard
C = concentration as ug/L or ug/Kg
DF = dilution
IS = Internal standard concentration (ng)
RRF = average RF (from initial cal except CLP methods from continuing cal)
V = sample volume for liquids in mls or sample weight for solids in grams
VA = volume of aliquot for medium level soils
VE = volume of concentrated extract
VT = volume of methanol for volatile medium level soils

SAMPLE SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-11066-1	PBL-5-10-E(4')	Solid	12/14/2009 1005	12/15/2009 1900
220-11066-2	PBL-5-2-W(7')	Solid	12/14/2009 1215	12/15/2009 1900
220-11066-3	PBL-5-5-N(6')	Solid	12/14/2009 1235	12/15/2009 1900
220-11066-4	PBL-5-10-N(5')	Solid	12/14/2009 1245	12/15/2009 1900
220-11066-5	PBL-5-10-S(2')	Solid	12/14/2009 1415	12/15/2009 1900
220-11066-6	PBL-1-30-E(9')	Solid	12/15/2009 0910	12/15/2009 1900
220-11066-7	PBL-1-30-E(9') F.D.	Solid	12/15/2009 0910	12/15/2009 1900
220-11066-8	PBL-2-60-E(4')	Solid	12/15/2009 1120	12/15/2009 1900
220-11066-9	PBL-2-60-E(4') F.D.	Solid	12/15/2009 1120	12/15/2009 1900
220-11066-10	PBL-2-30-N(10')	Solid	12/15/2009 1200	12/15/2009 1900
220-11066-11	PBL-2-30-N(10') F.D.	Solid	12/15/2009 1200	12/15/2009 1900
220-11066-12	PBL-2-60-N(11')	Solid	12/15/2009 1215	12/15/2009 1900
220-11066-13	PBL-8-60-S(12')	Solid	12/15/2009 1230	12/15/2009 1900
220-11066-14	FB-1	Water	12/15/2009 1500	12/15/2009 1900
220-11066-15	FB-2	Water	12/15/2009 1425	12/15/2009 1900
220-11066-16	FB-3	Water	12/15/2009 1500	12/15/2009 1900

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-1	**PBL-5-10-E(4')**					
2-Methylnaphthalene		48	J	330	ug/Kg	8270C
Acenaphthene		81	J	330	ug/Kg	8270C
Acenaphthylene		17	J	330	ug/Kg	8270C
Anthracene		290	J	330	ug/Kg	8270C
Benzo[a]anthracene		2000		330	ug/Kg	8270C
Benzo[a]pyrene		2500		330	ug/Kg	8270C
Benzo[b]fluoranthene		2500		330	ug/Kg	8270C
Benzo[g,h,i]perylene		2000		330	ug/Kg	8270C
Benzo[k]fluoranthene		1000		330	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		230	J B	330	ug/Kg	8270C
Carbazole		110	J	330	ug/Kg	8270C
Chrysene		2000		330	ug/Kg	8270C
Dibenz(a,h)anthracene		580		330	ug/Kg	8270C
Dibenzofuran		61	J	330	ug/Kg	8270C
Fluoranthene		2500		330	ug/Kg	8270C
Fluorene		82	J	330	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		2400		330	ug/Kg	8270C
Naphthalene		61	J	330	ug/Kg	8270C
Phenanthrene		930		330	ug/Kg	8270C
Pyrene		3200		330	ug/Kg	8270C
Silver		0.15	J	0.52	mg/Kg	6020
Aluminum		10300		26.1	mg/Kg	6020
Arsenic		10.1		0.52	mg/Kg	6020
Barium		66.4		0.52	mg/Kg	6020
Beryllium		0.53		0.52	mg/Kg	6020
Calcium		49100		52.2	mg/Kg	6020
Cadmium		0.31	J	0.52	mg/Kg	6020
Cobalt		9.6		0.52	mg/Kg	6020
Chromium		14.7		1.0	mg/Kg	6020
Copper		49.0		1.0	mg/Kg	6020
Iron		18700		26.1	mg/Kg	6020
Potassium		1040		52.2	mg/Kg	6020
Magnesium		6810		52.2	mg/Kg	6020
Manganese		384		1.3	mg/Kg	6020
Sodium		258		52.2	mg/Kg	6020
Nickel		18.6		0.52	mg/Kg	6020
Lead		146		0.52	mg/Kg	6020
Antimony		0.30	J	0.84	mg/Kg	6020
Selenium		0.79	J	1.0	mg/Kg	6020
Vanadium		20.3		0.52	mg/Kg	6020
Zinc		167		5.2	mg/Kg	6020
Mercury		0.13		0.061	mg/Kg	7471A
Percent Moisture		18.9		0.10	%	Moisture
Percent Solids		81.1		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-2	**PBL-5-2-W(7')**					
2-Methylnaphthalene		44	J	310	ug/Kg	8270C
Acenaphthene		64	J	310	ug/Kg	8270C
Acenaphthylene		160	J	310	ug/Kg	8270C
Anthracene		330		310	ug/Kg	8270C
Benzaldehyde		100	J	310	ug/Kg	8270C
Benzo[a]anthracene		1400		310	ug/Kg	8270C
Benzo[a]pyrene		1300		310	ug/Kg	8270C
Benzo[b]fluoranthene		1500		310	ug/Kg	8270C
Benzo[g,h,i]perylene		1200		310	ug/Kg	8270C
Benzo[k]fluoranthene		530		310	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		180	J B	310	ug/Kg	8270C
Carbazole		230	J	310	ug/Kg	8270C
Chrysene		1400		310	ug/Kg	8270C
Di-n-octyl phthalate		310		310	ug/Kg	8270C
Dibenz(a,h)anthracene		270	J	310	ug/Kg	8270C
Dibenzofuran		34	J	310	ug/Kg	8270C
Fluoranthene		2500		310	ug/Kg	8270C
Fluorene		60	J	310	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		1300		310	ug/Kg	8270C
Naphthalene		49	J	310	ug/Kg	8270C
Phenanthrene		1100		310	ug/Kg	8270C
Pyrene		3300		310	ug/Kg	8270C
Silver		2.0		0.53	mg/Kg	6020
Aluminum		3730		26.6	mg/Kg	6020
Arsenic		8.2		0.53	mg/Kg	6020
Barium		83.3		0.53	mg/Kg	6020
Beryllium		0.21	J	0.53	mg/Kg	6020
Calcium		18300		53.2	mg/Kg	6020
Cadmium		0.99		0.53	mg/Kg	6020
Cobalt		3.2		0.53	mg/Kg	6020
Chromium		22.9		1.1	mg/Kg	6020
Copper		85.3		1.1	mg/Kg	6020
Iron		13600		26.6	mg/Kg	6020
Potassium		541		53.2	mg/Kg	6020
Magnesium		2550		53.2	mg/Kg	6020
Manganese		203		1.3	mg/Kg	6020
Sodium		193		53.2	mg/Kg	6020
Nickel		13.5		0.53	mg/Kg	6020
Lead		378		0.53	mg/Kg	6020
Antimony		0.26	J	0.85	mg/Kg	6020
Selenium		0.58	J	1.1	mg/Kg	6020
Vanadium		11.3		0.53	mg/Kg	6020
Zinc		231		5.3	mg/Kg	6020
Mercury		0.90		0.055	mg/Kg	7471A
Percent Moisture		13.0		0.10	%	Moisture
Percent Solids		87.0		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-3	**PBL-5-5-N(6')**					
2-Methylnaphthalene		39	J	310	ug/Kg	8270C
Acenaphthylene		28	J	310	ug/Kg	8270C
Benzo[a]pyrene		19	J	310	ug/Kg	8270C
Benzo[b]fluoranthene		270	J	310	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		140	J B	310	ug/Kg	8270C
Fluoranthene		42	J	310	ug/Kg	8270C
Naphthalene		81	J	310	ug/Kg	8270C
Phenanthrene		50	J	310	ug/Kg	8270C
Pyrene		47	J	310	ug/Kg	8270C
Aluminum		12600		22.3	mg/Kg	6020
Arsenic		4.3		0.45	mg/Kg	6020
Barium		74.6		0.45	mg/Kg	6020
Beryllium		0.63		0.45	mg/Kg	6020
Calcium		3780		44.6	mg/Kg	6020
Cobalt		9.1		0.45	mg/Kg	6020
Chromium		21.4		0.89	mg/Kg	6020
Copper		19.9		0.89	mg/Kg	6020
Iron		18900		22.3	mg/Kg	6020
Potassium		2090		44.6	mg/Kg	6020
Magnesium		4700		44.6	mg/Kg	6020
Manganese		401		1.1	mg/Kg	6020
Sodium		137		44.6	mg/Kg	6020
Nickel		27.3		0.45	mg/Kg	6020
Lead		57.0		0.45	mg/Kg	6020
Selenium		1.4		0.89	mg/Kg	6020
Vanadium		28.0		0.45	mg/Kg	6020
Zinc		62.9		4.5	mg/Kg	6020
Mercury		0.14		0.058	mg/Kg	7471A
Percent Moisture		13.1		0.10	%	Moisture
Percent Solids		86.9		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-4	**PBL-5-10-N(5')**					
Benzo[a]pyrene		10	J	300	ug/Kg	8270C
Benzo[b]fluoranthene		270	J	300	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		170	J B	300	ug/Kg	8270C
Fluoranthene		23	J	300	ug/Kg	8270C
Pyrene		23	J	300	ug/Kg	8270C
Aluminum		8860		25.9	mg/Kg	6020
Arsenic		4.3		0.52	mg/Kg	6020
Barium		49.5		0.52	mg/Kg	6020
Beryllium		0.40	J	0.52	mg/Kg	6020
Calcium		2330		51.8	mg/Kg	6020
Cobalt		8.0		0.52	mg/Kg	6020
Chromium		14.4		1.0	mg/Kg	6020
Copper		16.8		1.0	mg/Kg	6020
Iron		14800		25.9	mg/Kg	6020
Potassium		1140		51.8	mg/Kg	6020
Magnesium		2840		51.8	mg/Kg	6020
Manganese		386		1.3	mg/Kg	6020
Sodium		87.5		51.8	mg/Kg	6020
Nickel		19.5		0.52	mg/Kg	6020
Lead		59.3		0.52	mg/Kg	6020
Selenium		1.4		1.0	mg/Kg	6020
Vanadium		20.0		0.52	mg/Kg	6020
Zinc		49.7		5.2	mg/Kg	6020
Mercury		0.035	J	0.057	mg/Kg	7471A
Percent Moisture		12.2		0.10	%	Moisture
Percent Solids		87.8		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-5	**PBL-5-10-S(2')**					
2-Methylnaphthalene		200	J	2900	ug/Kg	8270C
Acenaphthene		530	J	2900	ug/Kg	8270C
Anthracene		690	J	2900	ug/Kg	8270C
Benzo[a]anthracene		1700	J	2900	ug/Kg	8270C
Benzo[a]pyrene		1400	J	2900	ug/Kg	8270C
Benzo[b]fluoranthene		4000		2900	ug/Kg	8270C
Benzo[g,h,i]perylene		1100	J	2900	ug/Kg	8270C
Benzo[k]fluoranthene		700	J	2900	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		320	J B	2900	ug/Kg	8270C
Carbazole		480	J	2900	ug/Kg	8270C
Chrysene		1600	J	2900	ug/Kg	8270C
Dibenz(a,h)anthracene		260	J	2900	ug/Kg	8270C
Dibenzofuran		240	J	2900	ug/Kg	8270C
Fluoranthene		3900		2900	ug/Kg	8270C
Fluorene		380	J	2900	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		1300	J	2900	ug/Kg	8270C
Naphthalene		230	J	2900	ug/Kg	8270C
Phenanthrene		2900	J	2900	ug/Kg	8270C
Pyrene		3700		2900	ug/Kg	8270C
Silver		0.26	J	0.45	mg/Kg	6020
Aluminum		6880		22.7	mg/Kg	6020
Arsenic		6.5		0.45	mg/Kg	6020
Barium		71.7		0.45	mg/Kg	6020
Beryllium		0.35	J	0.45	mg/Kg	6020
Calcium		42300		45.4	mg/Kg	6020
Cadmium		2.4		0.45	mg/Kg	6020
Cobalt		4.9		0.45	mg/Kg	6020
Chromium		52.8		0.91	mg/Kg	6020
Copper		74.7		0.91	mg/Kg	6020
Iron		21300		22.7	mg/Kg	6020
Potassium		822		45.4	mg/Kg	6020
Magnesium		4410		45.4	mg/Kg	6020
Manganese		350		1.1	mg/Kg	6020
Sodium		234		45.4	mg/Kg	6020
Nickel		53.4		0.45	mg/Kg	6020
Lead		2040		0.45	mg/Kg	6020
Antimony		0.62	J	0.73	mg/Kg	6020
Selenium		0.78	J	0.91	mg/Kg	6020
Vanadium		20.1		0.45	mg/Kg	6020
Zinc		543		4.5	mg/Kg	6020
Mercury		0.23		0.051	mg/Kg	7471A
Percent Moisture		9.0		0.10	%	Moisture
Percent Solids		91.0		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-6	**PBL-1-30-E(9')**					
Acetone		24	J *	120	ug/Kg	8260B
Carbon disulfide		20	J	30	ug/Kg	8260B
Methylene Chloride		10	J B	120	ug/Kg	8260B
Benzene		23	J	30	ug/Kg	8260B
Methylcyclohexane		11	J	30	ug/Kg	8260B
Toluene		28	J B	30	ug/Kg	8260B
Ethylbenzene		1100		30	ug/Kg	8260B
Xylenes, Total		920		30	ug/Kg	8260B
Styrene		70		30	ug/Kg	8260B
Isopropylbenzene		250		30	ug/Kg	8260B
1,1'-Biphenyl		11000		6400	ug/Kg	8270C
2-Methylnaphthalene		9500		6400	ug/Kg	8270C
Acenaphthene		48000		6400	ug/Kg	8270C
Acenaphthylene		10000		6400	ug/Kg	8270C
Anthracene		26000		6400	ug/Kg	8270C
Benzo[a]anthracene		13000	B	6400	ug/Kg	8270C
Benzo[a]pyrene		9500	B	6400	ug/Kg	8270C
Benzo[b]fluoranthene		6700	B	6400	ug/Kg	8270C
Benzo[g,h,i]perylene		2500	J	6400	ug/Kg	8270C
Benzo[k]fluoranthene		2900	J	6400	ug/Kg	8270C
Carbazole		420	J	6400	ug/Kg	8270C
Chrysene		12000		6400	ug/Kg	8270C
Dibenz(a,h)anthracene		770	J	6400	ug/Kg	8270C
Dibenzofuran		3400	J	6400	ug/Kg	8270C
Fluoranthene		25000		6400	ug/Kg	8270C
Fluorene		31000		6400	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		3100	J	6400	ug/Kg	8270C
Naphthalene		16000		6400	ug/Kg	8270C
Phenanthrene		81000		6400	ug/Kg	8270C
Pyrene		36000		6400	ug/Kg	8270C
Aluminum		4470		21.1	mg/Kg	6020
Arsenic		3.2		0.42	mg/Kg	6020
Barium		25.1		0.42	mg/Kg	6020
Beryllium		0.18	J	0.42	mg/Kg	6020
Calcium		14500		42.2	mg/Kg	6020
Cobalt		3.2		0.42	mg/Kg	6020
Chromium		7.2		0.84	mg/Kg	6020
Copper		6.9		0.84	mg/Kg	6020
Iron		8060		21.1	mg/Kg	6020
Potassium		724		42.2	mg/Kg	6020
Magnesium		3540		42.2	mg/Kg	6020
Manganese		160		1.1	mg/Kg	6020
Sodium		211		42.2	mg/Kg	6020
Nickel		9.7		0.42	mg/Kg	6020
Lead		12.8		0.42	mg/Kg	6020
Selenium		0.62	J	0.84	mg/Kg	6020
Vanadium		9.2		0.42	mg/Kg	6020
Zinc		22.7		4.2	mg/Kg	6020

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
Mercury		0.050	J	0.057	mg/Kg	7471A
Percent Moisture		15.4		0.10	%	Moisture
Percent Solids		84.6		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-7	**PBL-1-30-E(9') F.D.**					
Acetone		19	J *	110	ug/Kg	8260B
Carbon disulfide		18	J	28	ug/Kg	8260B
Benzene		19	J	28	ug/Kg	8260B
Methylcyclohexane		10	J	28	ug/Kg	8260B
Toluene		21	J B	28	ug/Kg	8260B
Ethylbenzene		720		28	ug/Kg	8260B
Xylenes, Total		590		28	ug/Kg	8260B
Styrene		48		28	ug/Kg	8260B
Isopropylbenzene		200		28	ug/Kg	8260B
1,1'-Biphenyl		6000		3000	ug/Kg	8270C
2-Methylnaphthalene		5700		3000	ug/Kg	8270C
Acenaphthene		30000		3000	ug/Kg	8270C
Acenaphthylene		5700		3000	ug/Kg	8270C
Anthracene		15000		3000	ug/Kg	8270C
Benzo[a]anthracene		7000		3000	ug/Kg	8270C
Benzo[a]pyrene		5400		3000	ug/Kg	8270C
Benzo[b]fluoranthene		3900		3000	ug/Kg	8270C
Benzo[g,h,i]perylene		1200	J	3000	ug/Kg	8270C
Benzo[k]fluoranthene		1600	J	3000	ug/Kg	8270C
Carbazole		230	J	3000	ug/Kg	8270C
Chrysene		6600		3000	ug/Kg	8270C
Dibenz(a,h)anthracene		380	J	3000	ug/Kg	8270C
Dibenzofuran		2000	J	3000	ug/Kg	8270C
Fluoranthene		14000		3000	ug/Kg	8270C
Fluorene		15000		3000	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		1400	J	3000	ug/Kg	8270C
Naphthalene		9500		3000	ug/Kg	8270C
Phenanthrene		46000		3000	ug/Kg	8270C
Pyrene		21000		3000	ug/Kg	8270C
Aluminum		4450		22.1	mg/Kg	6020
Arsenic		3.4		0.44	mg/Kg	6020
Barium		29.8		0.44	mg/Kg	6020
Beryllium		0.16	J	0.44	mg/Kg	6020
Calcium		18500		44.2	mg/Kg	6020
Cobalt		3.0		0.44	mg/Kg	6020
Chromium		7.0		0.88	mg/Kg	6020
Copper		7.1		0.88	mg/Kg	6020
Iron		7320		22.1	mg/Kg	6020
Potassium		790		44.2	mg/Kg	6020
Magnesium		3700		44.2	mg/Kg	6020
Manganese		154		1.1	mg/Kg	6020
Sodium		231		44.2	mg/Kg	6020
Nickel		8.4		0.44	mg/Kg	6020
Lead		12.9		0.44	mg/Kg	6020
Selenium		0.55	J	0.88	mg/Kg	6020
Vanadium		9.3		0.44	mg/Kg	6020
Zinc		26.1		4.4	mg/Kg	6020
Mercury		0.062		0.053	mg/Kg	7471A

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
Percent Moisture		10.8	0.10	%	Moisture
Percent Solids		89.2	0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-8	**PBL-2-60-E(4')**					
1,1'-Biphenyl		66	J	330	ug/Kg	8270C
2-Methylnaphthalene		220	J	330	ug/Kg	8270C
Acenaphthene		41	J	330	ug/Kg	8270C
Acenaphthylene		29	J	330	ug/Kg	8270C
Anthracene		79	J	330	ug/Kg	8270C
Benzaldehyde		470		330	ug/Kg	8270C
Benzo[a]anthracene		440		330	ug/Kg	8270C
Benzo[a]pyrene		380		330	ug/Kg	8270C
Benzo[b]fluoranthene		740		330	ug/Kg	8270C
Benzo[g,h,i]perylene		290	J	330	ug/Kg	8270C
Benzo[k]fluoranthene		250	J	330	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		150	J B	330	ug/Kg	8270C
Carbazole		46	J	330	ug/Kg	8270C
Chrysene		750		330	ug/Kg	8270C
Di-n-butyl phthalate		54	J	330	ug/Kg	8270C
Dibenz(a,h)anthracene		95	J	330	ug/Kg	8270C
Dibenzofuran		73	J	330	ug/Kg	8270C
Fluoranthene		660		330	ug/Kg	8270C
Fluorene		33	J	330	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		330	J	330	ug/Kg	8270C
Naphthalene		160	J	330	ug/Kg	8270C
Phenanthrene		620		330	ug/Kg	8270C
Pyrene		610		330	ug/Kg	8270C
Silver		0.31	J	0.51	mg/Kg	6020
Aluminum		8680		25.3	mg/Kg	6020
Arsenic		449		0.51	mg/Kg	6020
Barium		230		0.51	mg/Kg	6020
Beryllium		1.4		0.51	mg/Kg	6020
Calcium		34200		50.6	mg/Kg	6020
Cadmium		1.5		0.51	mg/Kg	6020
Cobalt		9.7		0.51	mg/Kg	6020
Chromium		30.0		1.0	mg/Kg	6020
Copper		197		1.0	mg/Kg	6020
Iron		42800		25.3	mg/Kg	6020
Potassium		1430		50.6	mg/Kg	6020
Magnesium		6940		50.6	mg/Kg	6020
Manganese		297		1.3	mg/Kg	6020
Sodium		925		50.6	mg/Kg	6020
Nickel		53.7		0.51	mg/Kg	6020
Lead		312		0.51	mg/Kg	6020
Antimony		1.7		0.81	mg/Kg	6020
Selenium		8.6		1.0	mg/Kg	6020
Thallium		2.0		0.71	mg/Kg	6020
Vanadium		29.7		0.51	mg/Kg	6020
Zinc		612		5.1	mg/Kg	6020
Mercury		1.7		0.063	mg/Kg	7471A
Percent Moisture		20.3		0.10	%	Moisture
Percent Solids		79.7		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-9	**PBL-2-60-E(4') F.D.**					
1,1'-Biphenyl		66	J	350	ug/Kg	8270C
2-Methylnaphthalene		200	J	350	ug/Kg	8270C
Acenaphthene		57	J	350	ug/Kg	8270C
Acenaphthylene		21	J	350	ug/Kg	8270C
Anthracene		100	J	350	ug/Kg	8270C
Benzaldehyde		480		350	ug/Kg	8270C
Benzo[a]anthracene		590		350	ug/Kg	8270C
Benzo[a]pyrene		490		350	ug/Kg	8270C
Benzo[b]fluoranthene		900		350	ug/Kg	8270C
Benzo[g,h,i]perylene		350	J	350	ug/Kg	8270C
Benzo[k]fluoranthene		330	J	350	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		120	J B	350	ug/Kg	8270C
Butyl benzyl phthalate		26	J	350	ug/Kg	8270C
Carbazole		54	J	350	ug/Kg	8270C
Chrysene		900		350	ug/Kg	8270C
Di-n-octyl phthalate		30	J	350	ug/Kg	8270C
Dibenz(a,h)anthracene		120	J	350	ug/Kg	8270C
Dibenzofuran		79	J	350	ug/Kg	8270C
Fluoranthene		840		350	ug/Kg	8270C
Fluorene		46	J	350	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		400		350	ug/Kg	8270C
Naphthalene		150	J	350	ug/Kg	8270C
Phenanthrene		710		350	ug/Kg	8270C
Pyrene		780		350	ug/Kg	8270C
Silver		0.12	J	0.32	mg/Kg	6020
Aluminum		2690		15.8	mg/Kg	6020
Arsenic		106		0.32	mg/Kg	6020
Barium		251		0.32	mg/Kg	6020
Beryllium		0.39		0.32	mg/Kg	6020
Calcium		12500		31.5	mg/Kg	6020
Cadmium		0.53		0.32	mg/Kg	6020
Cobalt		2.6		0.32	mg/Kg	6020
Chromium		9.4		0.63	mg/Kg	6020
Copper		59.9		0.63	mg/Kg	6020
Iron		13800		15.8	mg/Kg	6020
Potassium		394		31.5	mg/Kg	6020
Magnesium		2640		31.5	mg/Kg	6020
Manganese		81.2		0.79	mg/Kg	6020
Sodium		297		31.5	mg/Kg	6020
Nickel		13.3		0.32	mg/Kg	6020
Lead		1670		0.32	mg/Kg	6020
Antimony		0.27	J	0.50	mg/Kg	6020
Selenium		2.9		0.63	mg/Kg	6020
Thallium		0.58		0.44	mg/Kg	6020
Vanadium		10.4		0.32	mg/Kg	6020
Zinc		144		3.2	mg/Kg	6020
Mercury		3.3		0.32	mg/Kg	7471A
Percent Moisture		23.4		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
Percent Solids		76.6	0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-10	**PBL-2-30-N(10')**					
Acetone		7.9	J *	26	ug/Kg	8260B
Carbon disulfide		2.7	J	6.5	ug/Kg	8260B
2-Methylnaphthalene		77	J	350	ug/Kg	8270C
Acenaphthene		53	J	350	ug/Kg	8270C
Acenaphthylene		99	J	350	ug/Kg	8270C
Anthracene		190	J	350	ug/Kg	8270C
Benzo[a]anthracene		540		350	ug/Kg	8270C
Benzo[a]pyrene		710		350	ug/Kg	8270C
Benzo[b]fluoranthene		830		350	ug/Kg	8270C
Benzo[g,h,i]perylene		380		350	ug/Kg	8270C
Benzo[k]fluoranthene		270	J	350	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		180	J B	350	ug/Kg	8270C
Carbazole		41	J	350	ug/Kg	8270C
Chrysene		590		350	ug/Kg	8270C
Dibenz(a,h)anthracene		98	J	350	ug/Kg	8270C
Dibenzofuran		37	J	350	ug/Kg	8270C
Fluoranthene		670		350	ug/Kg	8270C
Fluorene		82	J	350	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		380		350	ug/Kg	8270C
Naphthalene		100	J	350	ug/Kg	8270C
Phenanthrene		520		350	ug/Kg	8270C
Pyrene		2100		350	ug/Kg	8270C
Aluminum		4210		16.2	mg/Kg	6020
Arsenic		3.1		0.32	mg/Kg	6020
Barium		19.8		0.32	mg/Kg	6020
Beryllium		0.28	J	0.32	mg/Kg	6020
Calcium		2010		32.4	mg/Kg	6020
Cadmium		0.098	J	0.32	mg/Kg	6020
Cobalt		3.8		0.32	mg/Kg	6020
Chromium		8.4		0.65	mg/Kg	6020
Copper		11.5		0.65	mg/Kg	6020
Iron		9200		16.2	mg/Kg	6020
Potassium		775		32.4	mg/Kg	6020
Magnesium		1990		32.4	mg/Kg	6020
Manganese		164		0.81	mg/Kg	6020
Sodium		1280		32.4	mg/Kg	6020
Nickel		8.3		0.32	mg/Kg	6020
Lead		37.0		0.32	mg/Kg	6020
Antimony		0.15	J	0.52	mg/Kg	6020
Selenium		0.49	J	0.65	mg/Kg	6020
Vanadium		12.4		0.32	mg/Kg	6020
Zinc		43.6		3.2	mg/Kg	6020
Mercury		0.050	J	0.062	mg/Kg	7471A
Percent Moisture		23.6		0.10	%	Moisture
Percent Solids		76.4		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-11	**PBL-2-30-N(10') F.D.**					
Acetone		6.9	J *	25	ug/Kg	8260B
Carbon disulfide		2.3	J	6.2	ug/Kg	8260B
2-Methylnaphthalene		74	J	330	ug/Kg	8270C
Acenaphthene		33	J	330	ug/Kg	8270C
Acenaphthylene		70	J	330	ug/Kg	8270C
Anthracene		130	J	330	ug/Kg	8270C
Benzo[a]anthracene		400		330	ug/Kg	8270C
Benzo[a]pyrene		540		330	ug/Kg	8270C
Benzo[b]fluoranthene		570		330	ug/Kg	8270C
Benzo[g,h,i]perylene		250	J	330	ug/Kg	8270C
Benzo[k]fluoranthene		230	J	330	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		140	J B	330	ug/Kg	8270C
Carbazole		34	J	330	ug/Kg	8270C
Chrysene		430		330	ug/Kg	8270C
Dibenz(a,h)anthracene		67	J	330	ug/Kg	8270C
Dibenzofuran		24	J	330	ug/Kg	8270C
Fluoranthene		540		330	ug/Kg	8270C
Fluorene		53	J	330	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		270	J	330	ug/Kg	8270C
Naphthalene		100	J	330	ug/Kg	8270C
Phenanthrene		350		330	ug/Kg	8270C
Pyrene		1500		330	ug/Kg	8270C
Aluminum		5210		15.2	mg/Kg	6020
Arsenic		3.4		0.30	mg/Kg	6020
Barium		30.6		0.30	mg/Kg	6020
Beryllium		0.33		0.30	mg/Kg	6020
Calcium		3100		30.4	mg/Kg	6020
Cadmium		0.16	J	0.30	mg/Kg	6020
Cobalt		5.0		0.30	mg/Kg	6020
Chromium		11.7		0.61	mg/Kg	6020
Copper		15.9		0.61	mg/Kg	6020
Iron		12900		15.2	mg/Kg	6020
Potassium		998		30.4	mg/Kg	6020
Magnesium		2780		30.4	mg/Kg	6020
Manganese		198		0.76	mg/Kg	6020
Sodium		1610		30.4	mg/Kg	6020
Nickel		11.6		0.30	mg/Kg	6020
Lead		22.2		0.30	mg/Kg	6020
Selenium		0.90		0.61	mg/Kg	6020
Vanadium		17.1		0.30	mg/Kg	6020
Zinc		66.6		3.0	mg/Kg	6020
Mercury		0.047	J	0.058	mg/Kg	7471A
Percent Moisture		19.8		0.10	%	Moisture
Percent Solids		80.2		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-12	**PBL-2-60-N(11')**					
Acetone		7.3	J *	27	ug/Kg	8260B
Carbon disulfide		2.8	J	6.7	ug/Kg	8260B
2-Methylnaphthalene		29	J	360	ug/Kg	8270C
Anthracene		32	J	360	ug/Kg	8270C
Benzo[a]anthracene		59	J	360	ug/Kg	8270C
Benzo[a]pyrene		46	J	360	ug/Kg	8270C
Benzo[b]fluoranthene		50	J	360	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		44	J B	360	ug/Kg	8270C
Chrysene		51	J	360	ug/Kg	8270C
Fluoranthene		84	J	360	ug/Kg	8270C
Fluorene		24	J	360	ug/Kg	8270C
Naphthalene		32	J	360	ug/Kg	8270C
Phenanthrene		70	J	360	ug/Kg	8270C
Pyrene		250	J	360	ug/Kg	8270C
Aluminum		5700		16.9	mg/Kg	6020
Arsenic		3.8		0.34	mg/Kg	6020
Barium		13.9		0.34	mg/Kg	6020
Beryllium		0.24	J	0.34	mg/Kg	6020
Calcium		2870		33.7	mg/Kg	6020
Cobalt		4.4		0.34	mg/Kg	6020
Chromium		9.9		0.67	mg/Kg	6020
Copper		8.0		0.67	mg/Kg	6020
Iron		11300		16.9	mg/Kg	6020
Potassium		1070		33.7	mg/Kg	6020
Magnesium		2800		33.7	mg/Kg	6020
Manganese		156		0.84	mg/Kg	6020
Sodium		615		33.7	mg/Kg	6020
Nickel		10.1		0.34	mg/Kg	6020
Lead		9.9		0.34	mg/Kg	6020
Selenium		0.69		0.67	mg/Kg	6020
Vanadium		14.6		0.34	mg/Kg	6020
Zinc		36.4		3.4	mg/Kg	6020
Mercury		0.048	J	0.062	mg/Kg	7471A
Percent Moisture		25.9		0.10	%	Moisture
Percent Solids		74.1		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-13	**PBL-8-60-S(12')**					
1,1'-Biphenyl		21	J	320	ug/Kg	8270C
2-Methylnaphthalene		70	J	320	ug/Kg	8270C
Acenaphthylene		17	J	320	ug/Kg	8270C
Anthracene		46	J	320	ug/Kg	8270C
Benzo[a]anthracene		160	J	320	ug/Kg	8270C
Benzo[a]pyrene		170	J	320	ug/Kg	8270C
Benzo[b]fluoranthene		240	J	320	ug/Kg	8270C
Benzo[g,h,i]perylene		110	J	320	ug/Kg	8270C
Benzo[k]fluoranthene		64	J	320	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		2900	B	320	ug/Kg	8270C
Caprolactam		44	J	320	ug/Kg	8270C
Carbazole		24	J	320	ug/Kg	8270C
Chrysene		240	J	320	ug/Kg	8270C
Di-n-butyl phthalate		50	J	320	ug/Kg	8270C
Dibenz(a,h)anthracene		26	J	320	ug/Kg	8270C
Fluoranthene		300	J	320	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		100	J	320	ug/Kg	8270C
Naphthalene		260	J	320	ug/Kg	8270C
Phenanthrene		320	J	320	ug/Kg	8270C
Pyrene		330		320	ug/Kg	8270C
Aluminum		8650		15.0	mg/Kg	6020
Arsenic		63.7		0.30	mg/Kg	6020
Barium		89.3		0.30	mg/Kg	6020
Beryllium		0.41		0.30	mg/Kg	6020
Calcium		20700		30.0	mg/Kg	6020
Cadmium		0.41		0.30	mg/Kg	6020
Cobalt		2.7		0.30	mg/Kg	6020
Chromium		11.2		0.60	mg/Kg	6020
Copper		64.7		0.60	mg/Kg	6020
Iron		11200		15.0	mg/Kg	6020
Potassium		1180		30.0	mg/Kg	6020
Magnesium		2730		30.0	mg/Kg	6020
Manganese		130		0.75	mg/Kg	6020
Sodium		1100		30.0	mg/Kg	6020
Nickel		11.9		0.30	mg/Kg	6020
Lead		123		0.30	mg/Kg	6020
Antimony		0.13	J	0.48	mg/Kg	6020
Selenium		1.7		0.60	mg/Kg	6020
Thallium		0.46		0.42	mg/Kg	6020
Vanadium		19.6		0.30	mg/Kg	6020
Zinc		139		3.0	mg/Kg	6020
Mercury		0.49		0.056	mg/Kg	7471A
Percent Moisture		18.2		0.10	%	Moisture
Percent Solids		81.8		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-11066-14	**FB-1**					
Acetone		5.3	J	10	ug/L	8260B
Methyl Ethyl Ketone		4.1	J	10	ug/L	8260B
1,3-Dichlorobenzene		0.16	J	5.0	ug/L	8260B
Benzaldehyde		1.2	J	10	ug/L	8270C
Calcium		54.6	J	250	ug/L	6020
Chromium		1.8	J	5.0	ug/L	6020
Iron		35.7	J	125	ug/L	6020
Potassium		69.7	J	250	ug/L	6020
Sodium		78.4	J	250	ug/L	6020
Lead		0.53	J	2.5	ug/L	6020
Vanadium		0.82	J	2.5	ug/L	6020
220-11066-15	**FB-2**					
Acetone		5.4	J	10	ug/L	8260B
Methyl Ethyl Ketone		3.8	J	10	ug/L	8260B
Benzaldehyde		0.99	J	10	ug/L	8270C
Chromium		2.0	J	5.0	ug/L	6020
Iron		28.8	J	125	ug/L	6020
Potassium		47.5	J	250	ug/L	6020
Sodium		53.5	J	250	ug/L	6020
Vanadium		0.83	J	2.5	ug/L	6020
220-11066-16	**FB-3**					
Acetone		4.4	J	10	ug/L	8260B
Methyl Ethyl Ketone		4.0	J	10	ug/L	8260B
Chromium		2.2	J	5.0	ug/L	6020
Copper		2.5	J	5.0	ug/L	6020
Potassium		45.1	J	250	ug/L	6020
Vanadium		0.90	J	2.5	ug/L	6020

METHOD SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL CT	SW846 8270C	
Automated Soxhlet Extraction	TAL CT		SW846 3541
Metals (ICP/MS)	TAL CT	SW846 6020	
Preparation, Metals	TAL CT		SW846 3050B
Mercury (CVAA)	TAL CT	SW846 7471A	
Preparation, Mercury	TAL CT		SW846 7471A
Percent Moisture	TAL CT	EPA Moisture	
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL CT	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CT		SW846 3510C
Metals (ICP/MS)	TAL CT	SW846 6020	
Preparation, Total Metals	TAL CT		SW846 3010A
Mercury (CVAA)	TAL CT	SW846 7470A	
Preparation, Mercury	TAL CT		SW846 7470A

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method	Analyst	Analyst ID
SW846 8260B	Humbert, Dave	DH
SW846 8260B	Kostrzewska, Barbara	BK
SW846 8270C	Jonas, Stephan	SJ
SW846 6020	Petronchak, Nestor	NP
SW846 7470A	Voytek, Joseph F	JFV
SW846 7471A	Voytek, Joseph F	JFV
EPA Moisture	Capece, Bill	BC

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9')**

Lab Sample ID: 220-11066-6

Client Matrix: Solid

% Moisture: 15.4

Date Sampled: 12/15/2009 0910

Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 5.0

Date Analyzed: 12/24/2009 1810

Date Prepared: 12/24/2009 1810

Analysis Batch: 220-34652

Instrument ID: MSO

Lab File ID: O5116.D

Initial Weight/Volume: 5 g

Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		30	U *	2.1	30
Chloromethane		30	U	4.6	30
Vinyl chloride		30	U	1.4	30
Bromomethane		30	U	12	30
Chloroethane		30	U	5.8	30
Trichlorofluoromethane		30	U	0.89	30
1,1-Dichloroethene		30	U	3.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane		30	U	4.7	30
Acetone		24	J *	13	120
Carbon disulfide		20	J	2.4	30
Methyl acetate		30	U	2.6	30
Methylene Chloride		10	J B	6.4	120
trans-1,2-Dichloroethene		30	U	2.3	30
Methyl tert-butyl ether		30	U	1.2	30
1,1-Dichloroethane		30	U	1.8	30
cis-1,2-Dichloroethene		30	U	2.2	30
Methyl Ethyl Ketone		59	U	9.4	59
Chloroform		30	U	2.0	30
1,1,1-Trichloroethane		30	U	3.1	30
Cyclohexane		30	U	4.1	30
Carbon tetrachloride		30	U	5.6	30
Benzene		23	J	3.4	30
1,2-Dichloroethane		30	U	3.4	30
Trichloroethene		30	U	4.8	30
Methylcyclohexane		11	J	2.0	30
1,2-Dichloropropane		30	U	4.0	30
Bromodichloromethane		30	U	1.8	30
cis-1,3-Dichloropropene		30	U	3.3	30
methyl isobutyl ketone		30	U	3.3	30
Toluene		28	J B	0.44	30
trans-1,3-Dichloropropene		30	U	1.6	30
1,1,2-Trichloroethane		30	U	2.2	30
Tetrachloroethene		30	U	4.8	30
2-Hexanone		59	U	7.1	59
Dibromochloromethane		30	U	2.1	30
1,2-Dibromoethane		30	U	4.5	30
Chlorobenzene		30	U	3.5	30
Ethylbenzene		1100		4.1	30
Xylenes, Total		920		2.9	30
Styrene		70		0.89	30
Bromoform		30	U	3.6	30
Isopropylbenzene		250		1.1	30
1,1,2,2-Tetrachloroethane		30	U	3.1	30
1,3-Dichlorobenzene		30	U	1.2	30
1,4-Dichlorobenzene		30	U	4.0	30
1,2-Dichlorobenzene		30	U	1.4	30

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9')**

Lab Sample ID: 220-11066-6 Date Sampled: 12/15/2009 0910
Client Matrix: Solid % Moisture: 15.4 Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34652	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O5116.D
Dilution:	5.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/24/2009 1810		Final Weight/Volume: 5 mL
Date Prepared:	12/24/2009 1810		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		59	U	27	59
1,2,4-Trichlorobenzene		30	U	4.4	30

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		59 - 132
4-Bromofluorobenzene	56		34 - 124
Dibromofluoromethane	76		59 - 123
Toluene-d8 (Surr)	68		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9') F.D.**

Lab Sample ID: 220-11066-7
Client Matrix: Solid
% Moisture: 10.8

Date Sampled: 12/15/2009 0910
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 12/24/2009 0151
Date Prepared: 12/24/2009 0151

Analysis Batch: 220-34649

Instrument ID: MSO
Lab File ID: O5088.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		28	U *	2.0	28
Chloromethane		28	U	4.4	28
Vinyl chloride		28	U	1.3	28
Bromomethane		28	U	12	28
Chloroethane		28	U	5.5	28
Trichlorofluoromethane		28	U	0.84	28
1,1-Dichloroethene		28	U	3.3	28
1,1,2-Trichloro-1,2,2-trifluoroethane		28	U	4.4	28
Acetone		19	J *	13	110
Carbon disulfide		18	J	2.3	28
Methyl acetate		28	U	2.5	28
Methylene Chloride		110	U	6.1	110
trans-1,2-Dichloroethene		28	U	2.2	28
Methyl tert-butyl ether		28	U	1.2	28
1,1-Dichloroethane		28	U	1.7	28
cis-1,2-Dichloroethene		28	U	2.1	28
Methyl Ethyl Ketone		56	U	8.9	56
Chloroform		28	U	1.9	28
1,1,1-Trichloroethane		28	U	3.0	28
Cyclohexane		28	U	3.9	28
Carbon tetrachloride		28	U	5.3	28
Benzene		19	J	3.2	28
1,2-Dichloroethane		28	U	3.3	28
Trichloroethene		28	U	4.5	28
Methylcyclohexane		10	J	1.9	28
1,2-Dichloropropane		28	U	3.8	28
Bromodichloromethane		28	U	1.7	28
cis-1,3-Dichloropropene		28	U	3.1	28
methyl isobutyl ketone		28	U	3.1	28
Toluene		21	J B	0.42	28
trans-1,3-Dichloropropene		28	U	1.5	28
1,1,2-Trichloroethane		28	U	2.1	28
Tetrachloroethene		28	U	4.5	28
2-Hexanone		56	U	6.7	56
Dibromochloromethane		28	U	2.0	28
1,2-Dibromoethane		28	U	4.3	28
Chlorobenzene		28	U	3.3	28
Ethylbenzene		720		3.9	28
Xylenes, Total		590		2.7	28
Styrene		48		0.84	28
Bromoform		28	U	3.4	28
Isopropylbenzene		200		1.1	28
1,1,2,2-Tetrachloroethane		28	U	2.9	28
1,3-Dichlorobenzene		28	U	1.2	28
1,4-Dichlorobenzene		28	U	3.8	28
1,2-Dichlorobenzene		28	U	1.3	28

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9') F.D.**

Lab Sample ID: 220-11066-7 Date Sampled: 12/15/2009 0910
Client Matrix: Solid % Moisture: 10.8 Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 220-34649 Instrument ID: MSO
Preparation: 5030B Lab File ID: O5088.D
Dilution: 5.0 Initial Weight/Volume: 5 g
Date Analyzed: 12/24/2009 0151 Final Weight/Volume: 5 mL
Date Prepared: 12/24/2009 0151

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		56	U	25	56
1,2,4-Trichlorobenzene		28	U	4.2	28

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		59 - 132
4-Bromofluorobenzene	65		34 - 124
Dibromofluoromethane	73		59 - 123
Toluene-d8 (Surr)	80		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4')**

Lab Sample ID: 220-11066-8
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 12/15/2009 1120
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/23/2009 2322
Date Prepared: 12/23/2009 2322

Analysis Batch: 220-34649

Instrument ID: MSO
Lab File ID: O5082.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.3	U *	0.44	6.3
Chloromethane		6.3	U	0.98	6.3
Vinyl chloride		6.3	U	0.29	6.3
Bromomethane		6.3	U	2.6	6.3
Chloroethane		6.3	U	1.2	6.3
Trichlorofluoromethane		6.3	U	0.19	6.3
1,1-Dichloroethene		6.3	U	0.73	6.3
1,1,2-Trichloro-1,2,2-trifluoroethane		6.3	U	0.99	6.3
Acetone		25	U *	2.8	25
Carbon disulfide		6.3	U	0.51	6.3
Methyl acetate		6.3	U	0.55	6.3
Methylene Chloride		25	U	1.4	25
trans-1,2-Dichloroethene		6.3	U	0.49	6.3
Methyl tert-butyl ether		6.3	U	0.26	6.3
1,1-Dichloroethane		6.3	U	0.38	6.3
cis-1,2-Dichloroethene		6.3	U	0.46	6.3
Methyl Ethyl Ketone		13	U	2.0	13
Chloroform		6.3	U	0.43	6.3
1,1,1-Trichloroethane		6.3	U	0.67	6.3
Cyclohexane		6.3	U	0.87	6.3
Carbon tetrachloride		6.3	U	1.2	6.3
Benzene		6.3	U	0.72	6.3
1,2-Dichloroethane		6.3	U	0.73	6.3
Trichloroethene		6.3	U	1.0	6.3
Methylcyclohexane		6.3	U	0.41	6.3
1,2-Dichloropropane		6.3	U	0.84	6.3
Bromodichloromethane		6.3	U	0.38	6.3
cis-1,3-Dichloropropene		6.3	U	0.70	6.3
methyl isobutyl ketone		6.3	U	0.69	6.3
Toluene		6.3	U	0.093	6.3
trans-1,3-Dichloropropene		6.3	U	0.34	6.3
1,1,2-Trichloroethane		6.3	U	0.46	6.3
Tetrachloroethene		6.3	U	1.0	6.3
2-Hexanone		13	U	1.5	13
Dibromochloromethane		6.3	U	0.44	6.3
1,2-Dibromoethane		6.3	U	0.95	6.3
Chlorobenzene		6.3	U	0.74	6.3
Ethylbenzene		6.3	U	0.88	6.3
Xylenes, Total		6.3	U	0.61	6.3
Styrene		6.3	U	0.19	6.3
Bromoform		6.3	U	0.77	6.3
Isopropylbenzene		6.3	U	0.24	6.3
1,1,2,2-Tetrachloroethane		6.3	U	0.65	6.3
1,3-Dichlorobenzene		6.3	U	0.26	6.3
1,4-Dichlorobenzene		6.3	U	0.84	6.3
1,2-Dichlorobenzene		6.3	U	0.30	6.3

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4')**

Lab Sample ID: 220-11066-8
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 12/15/2009 1120
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/23/2009 2322
Date Prepared: 12/23/2009 2322

Analysis Batch: 220-34649

Instrument ID: MSO
Lab File ID: O5082.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		13	U	5.7	13
1,2,4-Trichlorobenzene		6.3	U	0.94	6.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	37	*	59 - 132
4-Bromofluorobenzene	33	*	34 - 124
Dibromofluoromethane	41	*	59 - 123
Toluene-d8 (Surr)	43	*	50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4') F.D.**

Lab Sample ID: 220-11066-9
Client Matrix: Solid
% Moisture: 23.4

Date Sampled: 12/15/2009 1120
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/23/2009 2347
Date Prepared: 12/23/2009 2347

Analysis Batch: 220-34649

Instrument ID: MSO
Lab File ID: O5083.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.5	U *	0.46	6.5
Chloromethane		6.5	U	1.0	6.5
Vinyl chloride		6.5	U	0.30	6.5
Bromomethane		6.5	U	2.7	6.5
Chloroethane		6.5	U	1.3	6.5
Trichlorofluoromethane		6.5	U	0.20	6.5
1,1-Dichloroethene		6.5	U	0.76	6.5
1,1,2-Trichloro-1,2,2-trifluoroethane		6.5	U	1.0	6.5
Acetone		26	U *	2.9	26
Carbon disulfide		6.5	U	0.53	6.5
Methyl acetate		6.5	U	0.57	6.5
Methylene Chloride		26	U	1.4	26
trans-1,2-Dichloroethene		6.5	U	0.51	6.5
Methyl tert-butyl ether		6.5	U	0.27	6.5
1,1-Dichloroethane		6.5	U	0.39	6.5
cis-1,2-Dichloroethene		6.5	U	0.48	6.5
Methyl Ethyl Ketone		13	U	2.1	13
Chloroform		6.5	U	0.44	6.5
1,1,1-Trichloroethane		6.5	U	0.69	6.5
Cyclohexane		6.5	U	0.90	6.5
Carbon tetrachloride		6.5	U	1.2	6.5
Benzene		6.5	U	0.74	6.5
1,2-Dichloroethane		6.5	U	0.76	6.5
Trichloroethene		6.5	U	1.1	6.5
Methylcyclohexane		6.5	U	0.43	6.5
1,2-Dichloropropane		6.5	U	0.87	6.5
Bromodichloromethane		6.5	U	0.39	6.5
cis-1,3-Dichloropropene		6.5	U	0.73	6.5
methyl isobutyl ketone		6.5	U	0.72	6.5
Toluene		6.5	U	0.097	6.5
trans-1,3-Dichloropropene		6.5	U	0.35	6.5
1,1,2-Trichloroethane		6.5	U	0.48	6.5
Tetrachloroethene		6.5	U	1.1	6.5
2-Hexanone		13	U	1.6	13
Dibromochloromethane		6.5	U	0.46	6.5
1,2-Dibromoethane		6.5	U	0.99	6.5
Chlorobenzene		6.5	U	0.77	6.5
Ethylbenzene		6.5	U	0.91	6.5
Xylenes, Total		6.5	U	0.63	6.5
Styrene		6.5	U	0.20	6.5
Bromoform		6.5	U	0.80	6.5
Isopropylbenzene		6.5	U	0.25	6.5
1,1,2,2-Tetrachloroethane		6.5	U	0.68	6.5
1,3-Dichlorobenzene		6.5	U	0.27	6.5
1,4-Dichlorobenzene		6.5	U	0.87	6.5
1,2-Dichlorobenzene		6.5	U	0.31	6.5

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4') F.D.**

Lab Sample ID: 220-11066-9 Date Sampled: 12/15/2009 1120
Client Matrix: Solid % Moisture: 23.4 Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34649	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O5083.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/23/2009 2347		Final Weight/Volume: 5 mL
Date Prepared:	12/23/2009 2347		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		13	U	5.9	13
1,2,4-Trichlorobenzene		6.5	U	0.98	6.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	30	*	59 - 132
4-Bromofluorobenzene	28	*	34 - 124
Dibromofluoromethane	33	*	59 - 123
Toluene-d8 (Surr)	35	*	50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10')**

Lab Sample ID: 220-11066-10
Client Matrix: Solid

% Moisture: 23.6

Date Sampled: 12/15/2009 1200
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/24/2009 0012
Date Prepared: 12/24/2009 0012

Analysis Batch: 220-34649

Instrument ID: MSO
Lab File ID: O5084.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.5	U *	0.46	6.5
Chloromethane		6.5	U	1.0	6.5
Vinyl chloride		6.5	U	0.30	6.5
Bromomethane		6.5	U	2.7	6.5
Chloroethane		6.5	U	1.3	6.5
Trichlorofluoromethane		6.5	U	0.20	6.5
1,1-Dichloroethene		6.5	U	0.76	6.5
1,1,2-Trichloro-1,2,2-trifluoroethane		6.5	U	1.0	6.5
Acetone		7.9	J *	2.9	26
Carbon disulfide		2.7	J	0.54	6.5
Methyl acetate		6.5	U	0.58	6.5
Methylene Chloride		26	U	1.4	26
trans-1,2-Dichloroethene		6.5	U	0.51	6.5
Methyl tert-butyl ether		6.5	U	0.27	6.5
1,1-Dichloroethane		6.5	U	0.39	6.5
cis-1,2-Dichloroethene		6.5	U	0.48	6.5
Methyl Ethyl Ketone		13	U	2.1	13
Chloroform		6.5	U	0.44	6.5
1,1,1-Trichloroethane		6.5	U	0.69	6.5
Cyclohexane		6.5	U	0.90	6.5
Carbon tetrachloride		6.5	U	1.2	6.5
Benzene		6.5	U	0.75	6.5
1,2-Dichloroethane		6.5	U	0.76	6.5
Trichloroethene		6.5	U	1.1	6.5
Methylcyclohexane		6.5	U	0.43	6.5
1,2-Dichloropropane		6.5	U	0.88	6.5
Bromodichloromethane		6.5	U	0.39	6.5
cis-1,3-Dichloropropene		6.5	U	0.73	6.5
methyl isobutyl ketone		6.5	U	0.72	6.5
Toluene		6.5	U	0.097	6.5
trans-1,3-Dichloropropene		6.5	U	0.35	6.5
1,1,2-Trichloroethane		6.5	U	0.48	6.5
Tetrachloroethene		6.5	U	1.1	6.5
2-Hexanone		13	U	1.6	13
Dibromochloromethane		6.5	U	0.46	6.5
1,2-Dibromoethane		6.5	U	0.99	6.5
Chlorobenzene		6.5	U	0.77	6.5
Ethylbenzene		6.5	U	0.92	6.5
Xylenes, Total		6.5	U	0.64	6.5
Styrene		6.5	U	0.20	6.5
Bromoform		6.5	U	0.80	6.5
Isopropylbenzene		6.5	U	0.25	6.5
1,1,2,2-Tetrachloroethane		6.5	U	0.68	6.5
1,3-Dichlorobenzene		6.5	U	0.27	6.5
1,4-Dichlorobenzene		6.5	U	0.88	6.5
1,2-Dichlorobenzene		6.5	U	0.31	6.5

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10')**

Lab Sample ID: 220-11066-10 Date Sampled: 12/15/2009 1200
Client Matrix: Solid % Moisture: 23.6 Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34649	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O5084.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/24/2009 0012		Final Weight/Volume: 5 mL
Date Prepared:	12/24/2009 0012		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		13	U	5.9	13
1,2,4-Trichlorobenzene		6.5	U	0.98	6.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	79		59 - 132
4-Bromofluorobenzene	88		34 - 124
Dibromofluoromethane	75		59 - 123
Toluene-d8 (Surr)	64		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10') F.D.**

Lab Sample ID: 220-11066-11
Client Matrix: Solid
% Moisture: 19.8

Date Sampled: 12/15/2009 1200
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/24/2009 0037
Date Prepared: 12/24/2009 0037

Analysis Batch: 220-34649

Instrument ID: MSO
Lab File ID: O5085.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.2	U *	0.44	6.2
Chloromethane		6.2	U	0.97	6.2
Vinyl chloride		6.2	U	0.29	6.2
Bromomethane		6.2	U	2.6	6.2
Chloroethane		6.2	U	1.2	6.2
Trichlorofluoromethane		6.2	U	0.19	6.2
1,1-Dichloroethene		6.2	U	0.72	6.2
1,1,2-Trichloro-1,2,2-trifluoroethane		6.2	U	0.99	6.2
Acetone		6.9	J *	2.8	25
Carbon disulfide		2.3	J	0.51	6.2
Methyl acetate		6.2	U	0.55	6.2
Methylene Chloride		25	U	1.4	25
trans-1,2-Dichloroethene		6.2	U	0.49	6.2
Methyl tert-butyl ether		6.2	U	0.26	6.2
1,1-Dichloroethane		6.2	U	0.37	6.2
cis-1,2-Dichloroethene		6.2	U	0.46	6.2
Methyl Ethyl Ketone		12	U	2.0	12
Chloroform		6.2	U	0.42	6.2
1,1,1-Trichloroethane		6.2	U	0.66	6.2
Cyclohexane		6.2	U	0.86	6.2
Carbon tetrachloride		6.2	U	1.2	6.2
Benzene		6.2	U	0.71	6.2
1,2-Dichloroethane		6.2	U	0.72	6.2
Trichloroethene		6.2	U	1.0	6.2
Methylcyclohexane		6.2	U	0.41	6.2
1,2-Dichloropropane		6.2	U	0.84	6.2
Bromodichloromethane		6.2	U	0.37	6.2
cis-1,3-Dichloropropene		6.2	U	0.70	6.2
methyl isobutyl ketone		6.2	U	0.69	6.2
Toluene		6.2	U	0.092	6.2
trans-1,3-Dichloropropene		6.2	U	0.34	6.2
1,1,2-Trichloroethane		6.2	U	0.46	6.2
Tetrachloroethene		6.2	U	1.0	6.2
2-Hexanone		12	U	1.5	12
Dibromochloromethane		6.2	U	0.44	6.2
1,2-Dibromoethane		6.2	U	0.95	6.2
Chlorobenzene		6.2	U	0.74	6.2
Ethylbenzene		6.2	U	0.87	6.2
Xylenes, Total		6.2	U	0.61	6.2
Styrene		6.2	U	0.19	6.2
Bromoform		6.2	U	0.76	6.2
Isopropylbenzene		6.2	U	0.24	6.2
1,1,2,2-Tetrachloroethane		6.2	U	0.65	6.2
1,3-Dichlorobenzene		6.2	U	0.26	6.2
1,4-Dichlorobenzene		6.2	U	0.84	6.2
1,2-Dichlorobenzene		6.2	U	0.30	6.2

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10') F.D.**

Lab Sample ID: 220-11066-11

Client Matrix: Solid

% Moisture: 19.8

Date Sampled: 12/15/2009 1200

Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34649	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O5085.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/24/2009 0037		Final Weight/Volume: 5 mL
Date Prepared:	12/24/2009 0037		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		12	U	5.7	12
1,2,4-Trichlorobenzene		6.2	U	0.94	6.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78		59 - 132
4-Bromofluorobenzene	108		34 - 124
Dibromofluoromethane	75		59 - 123
Toluene-d8 (Surr)	72		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-N(11')**

Lab Sample ID: 220-11066-12

Client Matrix: Solid

% Moisture: 25.9

Date Sampled: 12/15/2009 1215

Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 12/24/2009 0101

Date Prepared: 12/24/2009 0101

Analysis Batch: 220-34649

Instrument ID: MSO

Lab File ID: O5086.D

Initial Weight/Volume: 5 g

Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		6.7	U *	0.47	6.7
Chloromethane		6.7	U	1.1	6.7
Vinyl chloride		6.7	U	0.31	6.7
Bromomethane		6.7	U	2.8	6.7
Chloroethane		6.7	U	1.3	6.7
Trichlorofluoromethane		6.7	U	0.20	6.7
1,1-Dichloroethene		6.7	U	0.78	6.7
1,1,2-Trichloro-1,2,2-trifluoroethane		6.7	U	1.1	6.7
Acetone		7.3	J *	3.0	27
Carbon disulfide		2.8	J	0.55	6.7
Methyl acetate		6.7	U	0.59	6.7
Methylene Chloride		27	U	1.5	27
trans-1,2-Dichloroethene		6.7	U	0.53	6.7
Methyl tert-butyl ether		6.7	U	0.28	6.7
1,1-Dichloroethane		6.7	U	0.40	6.7
cis-1,2-Dichloroethene		6.7	U	0.50	6.7
Methyl Ethyl Ketone		13	U	2.1	13
Chloroform		6.7	U	0.46	6.7
1,1,1-Trichloroethane		6.7	U	0.71	6.7
Cyclohexane		6.7	U	0.93	6.7
Carbon tetrachloride		6.7	U	1.3	6.7
Benzene		6.7	U	0.77	6.7
1,2-Dichloroethane		6.7	U	0.78	6.7
Trichloroethene		6.7	U	1.1	6.7
Methylcyclohexane		6.7	U	0.45	6.7
1,2-Dichloropropane		6.7	U	0.90	6.7
Bromodichloromethane		6.7	U	0.40	6.7
cis-1,3-Dichloropropene		6.7	U	0.76	6.7
methyl isobutyl ketone		6.7	U	0.74	6.7
Toluene		6.7	U	0.10	6.7
trans-1,3-Dichloropropene		6.7	U	0.36	6.7
1,1,2-Trichloroethane		6.7	U	0.50	6.7
Tetrachloroethene		6.7	U	1.1	6.7
2-Hexanone		13	U	1.6	13
Dibromochloromethane		6.7	U	0.47	6.7
1,2-Dibromoethane		6.7	U	1.0	6.7
Chlorobenzene		6.7	U	0.80	6.7
Ethylbenzene		6.7	U	0.94	6.7
Xylenes, Total		6.7	U	0.66	6.7
Styrene		6.7	U	0.20	6.7
Bromoform		6.7	U	0.82	6.7
Isopropylbenzene		6.7	U	0.26	6.7
1,1,2,2-Tetrachloroethane		6.7	U	0.70	6.7
1,3-Dichlorobenzene		6.7	U	0.28	6.7
1,4-Dichlorobenzene		6.7	U	0.90	6.7
1,2-Dichlorobenzene		6.7	U	0.32	6.7

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-N(11')**

Lab Sample ID: 220-11066-12

Client Matrix: Solid

% Moisture: 25.9

Date Sampled: 12/15/2009 1215

Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34649	Instrument ID: MSO
Preparation:	5030B		Lab File ID: O5086.D
Dilution:	1.0		Initial Weight/Volume: 5 g
Date Analyzed:	12/24/2009 0101		Final Weight/Volume: 5 mL
Date Prepared:	12/24/2009 0101		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane		13	U	6.1	13
1,2,4-Trichlorobenzene		6.7	U	1.0	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	80		59 - 132
4-Bromofluorobenzene	65		34 - 124
Dibromofluoromethane	85		59 - 123
Toluene-d8 (Surr)	81		50 - 118

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-1**

Lab Sample ID: 220-11066-14
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/21/2009 1927
Date Prepared: 12/21/2009 1927

Analysis Batch: 220-34565

Instrument ID: MSV
Lab File ID: V8916.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	5.0	U	1.0	5.0
Chloromethane	5.0	U	1.1	5.0
Vinyl chloride	5.0	U	0.99	5.0
Bromomethane	5.0	U	2.1	5.0
Chloroethane	5.0	U	1.1	5.0
Trichlorofluoromethane	5.0	U	1.1	5.0
1,1-Dichloroethene	5.0	U	0.83	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	0.97	5.0
Acetone	5.3	J	1.0	10
Carbon disulfide	5.0	U	0.90	5.0
Methyl acetate	5.0	U	0.48	5.0
Methylene Chloride	5.0	U	0.78	5.0
trans-1,2-Dichloroethene	5.0	U	0.76	5.0
Methyl tert-butyl ether	5.0	U	0.17	5.0
1,1-Dichloroethane	5.0	U	1.0	5.0
cis-1,2-Dichloroethene	5.0	U	0.99	5.0
Methyl Ethyl Ketone	4.1	J	1.1	10
Chloroform	5.0	U	0.67	5.0
1,1,1-Trichloroethane	5.0	U	0.69	5.0
Cyclohexane	5.0	U	0.70	5.0
Carbon tetrachloride	5.0	U	1.1	5.0
Benzene	5.0	U	0.74	5.0
1,2-Dichloroethane	5.0	U	0.72	5.0
Trichloroethene	5.0	U	0.62	5.0
Methylcyclohexane	5.0	U	0.98	5.0
1,2-Dichloropropane	5.0	U	0.71	5.0
Bromodichloromethane	5.0	U	0.48	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
methyl isobutyl ketone	10	U	0.38	10
Toluene	5.0	U	0.72	5.0
trans-1,3-Dichloropropene	5.0	U	0.57	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Tetrachloroethene	5.0	U	0.81	5.0
2-Hexanone	10	U	1.1	10
Dibromochloromethane	5.0	U	0.55	5.0
1,2-Dibromoethane	5.0	U	0.52	5.0
Chlorobenzene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0
Styrene	5.0	U	0.64	5.0
Bromoform	5.0	U	0.46	5.0
Isopropylbenzene	5.0	U	0.85	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.81	5.0
1,3-Dichlorobenzene	0.16	J	0.14	5.0
1,4-Dichlorobenzene	5.0	U	0.59	5.0
1,2-Dichlorobenzene	5.0	U	0.22	5.0

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-1**

Lab Sample ID: 220-11066-14
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34565	Instrument ID: MSV
Preparation:	5030B		Lab File ID: V8916.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/21/2009 1927		Final Weight/Volume: 5 mL
Date Prepared:	12/21/2009 1927		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	5.0	U	1.2	5.0
1,2,4-Trichlorobenzene	5.0	U	0.72	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		65 - 136
4-Bromofluorobenzene	89		51 - 142
Dibromofluoromethane	95		68 - 132
Toluene-d8 (Surr)	84		63 - 127

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-2**

Lab Sample ID: 220-11066-15
Client Matrix: Water

Date Sampled: 12/15/2009 1425
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/21/2009 1954
Date Prepared: 12/21/2009 1954

Analysis Batch: 220-34565

Instrument ID: MSV
Lab File ID: V8917.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	5.0	U	1.0	5.0
Chloromethane	5.0	U	1.1	5.0
Vinyl chloride	5.0	U	0.99	5.0
Bromomethane	5.0	U	2.1	5.0
Chloroethane	5.0	U	1.1	5.0
Trichlorofluoromethane	5.0	U	1.1	5.0
1,1-Dichloroethene	5.0	U	0.83	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	0.97	5.0
Acetone	5.4	J	1.0	10
Carbon disulfide	5.0	U	0.90	5.0
Methyl acetate	5.0	U	0.48	5.0
Methylene Chloride	5.0	U	0.78	5.0
trans-1,2-Dichloroethene	5.0	U	0.76	5.0
Methyl tert-butyl ether	5.0	U	0.17	5.0
1,1-Dichloroethane	5.0	U	1.0	5.0
cis-1,2-Dichloroethene	5.0	U	0.99	5.0
Methyl Ethyl Ketone	3.8	J	1.1	10
Chloroform	5.0	U	0.67	5.0
1,1,1-Trichloroethane	5.0	U	0.69	5.0
Cyclohexane	5.0	U	0.70	5.0
Carbon tetrachloride	5.0	U	1.1	5.0
Benzene	5.0	U	0.74	5.0
1,2-Dichloroethane	5.0	U	0.72	5.0
Trichloroethene	5.0	U	0.62	5.0
Methylcyclohexane	5.0	U	0.98	5.0
1,2-Dichloropropane	5.0	U	0.71	5.0
Bromodichloromethane	5.0	U	0.48	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
methyl isobutyl ketone	10	U	0.38	10
Toluene	5.0	U	0.72	5.0
trans-1,3-Dichloropropene	5.0	U	0.57	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Tetrachloroethene	5.0	U	0.81	5.0
2-Hexanone	10	U	1.1	10
Dibromochloromethane	5.0	U	0.55	5.0
1,2-Dibromoethane	5.0	U	0.52	5.0
Chlorobenzene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0
Styrene	5.0	U	0.64	5.0
Bromoform	5.0	U	0.46	5.0
Isopropylbenzene	5.0	U	0.85	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.81	5.0
1,3-Dichlorobenzene	5.0	U	0.14	5.0
1,4-Dichlorobenzene	5.0	U	0.59	5.0
1,2-Dichlorobenzene	5.0	U	0.22	5.0

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-2**

Lab Sample ID: 220-11066-15
Client Matrix: Water

Date Sampled: 12/15/2009 1425
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34565	Instrument ID: MSV
Preparation:	5030B		Lab File ID: V8917.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/21/2009 1954		Final Weight/Volume: 5 mL
Date Prepared:	12/21/2009 1954		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	5.0	U	1.2	5.0
1,2,4-Trichlorobenzene	5.0	U	0.72	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		65 - 136
4-Bromofluorobenzene	91		51 - 142
Dibromofluoromethane	96		68 - 132
Toluene-d8 (Surr)	85		63 - 127

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-3**

Lab Sample ID: 220-11066-16
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/21/2009 2021
Date Prepared: 12/21/2009 2021

Analysis Batch: 220-34565

Instrument ID: MSV
Lab File ID: V8918.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	5.0	U	1.0	5.0
Chloromethane	5.0	U	1.1	5.0
Vinyl chloride	5.0	U	0.99	5.0
Bromomethane	5.0	U	2.1	5.0
Chloroethane	5.0	U	1.1	5.0
Trichlorofluoromethane	5.0	U	1.1	5.0
1,1-Dichloroethene	5.0	U	0.83	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	0.97	5.0
Acetone	4.4	J	1.0	10
Carbon disulfide	5.0	U	0.90	5.0
Methyl acetate	5.0	U	0.48	5.0
Methylene Chloride	5.0	U	0.78	5.0
trans-1,2-Dichloroethene	5.0	U	0.76	5.0
Methyl tert-butyl ether	5.0	U	0.17	5.0
1,1-Dichloroethane	5.0	U	1.0	5.0
cis-1,2-Dichloroethene	5.0	U	0.99	5.0
Methyl Ethyl Ketone	4.0	J	1.1	10
Chloroform	5.0	U	0.67	5.0
1,1,1-Trichloroethane	5.0	U	0.69	5.0
Cyclohexane	5.0	U	0.70	5.0
Carbon tetrachloride	5.0	U	1.1	5.0
Benzene	5.0	U	0.74	5.0
1,2-Dichloroethane	5.0	U	0.72	5.0
Trichloroethene	5.0	U	0.62	5.0
Methylcyclohexane	5.0	U	0.98	5.0
1,2-Dichloropropane	5.0	U	0.71	5.0
Bromodichloromethane	5.0	U	0.48	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
methyl isobutyl ketone	10	U	0.38	10
Toluene	5.0	U	0.72	5.0
trans-1,3-Dichloropropene	5.0	U	0.57	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Tetrachloroethene	5.0	U	0.81	5.0
2-Hexanone	10	U	1.1	10
Dibromochloromethane	5.0	U	0.55	5.0
1,2-Dibromoethane	5.0	U	0.52	5.0
Chlorobenzene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0
Styrene	5.0	U	0.64	5.0
Bromoform	5.0	U	0.46	5.0
Isopropylbenzene	5.0	U	0.85	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.81	5.0
1,3-Dichlorobenzene	5.0	U	0.14	5.0
1,4-Dichlorobenzene	5.0	U	0.59	5.0
1,2-Dichlorobenzene	5.0	U	0.22	5.0

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-3**

Lab Sample ID: 220-11066-16
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 220-34565	Instrument ID: MSV
Preparation:	5030B		Lab File ID: V8918.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/21/2009 2021		Final Weight/Volume: 5 mL
Date Prepared:	12/21/2009 2021		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	5.0	U	1.2	5.0
1,2,4-Trichlorobenzene	5.0	U	0.72	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		65 - 136
4-Bromofluorobenzene	89		51 - 142
Dibromofluoromethane	96		68 - 132
Toluene-d8 (Surr)	84		63 - 127

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-E(4')**

Lab Sample ID: 220-11066-1
Client Matrix: Solid
% Moisture: 18.9

Date Sampled: 12/14/2009 1005
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14580.D
Dilution:	1.0			Initial Weight/Volume:	15.26 g
Date Analyzed:	12/21/2009 1702			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		330	U	21	330
2,4,5-Trichlorophenol		2100	U	16	2100
2,4,6-Trichlorophenol		330	U	9.0	330
2,4-Dichlorophenol		330	U	17	330
2,4-Dimethylphenol		330	U	16	330
2,4-Dinitrotoluene		330	U	26	330
2,4-Dinitrophenol		2100	U	98	2100
2,6-Dinitrotoluene		330	U	9.6	330
2-Chloronaphthalene		330	U	14	330
2-Chlorophenol		330	U	19	330
2-Methylnaphthalene		48	J	9.3	330
2-Methylphenol		330	U	20	330
2-Nitroaniline		810	U	20	810
2-Nitrophenol		330	U	21	330
3,3'-Dichlorobenzidine		400	U	67	400
3-Nitroaniline		810	U	10	810
4,6-Dinitro-2-methylphenol		2100	U	140	2100
4-Bromophenyl phenyl ether		330	U	21	330
4-Chloro-3-methylphenol		330	U	13	330
4-Chloroaniline		330	U	53	330
4-Chlorophenyl phenyl ether		330	U	24	330
4-Methylphenol		330	U	21	330
4-Nitroaniline		330	U	25	330
4-Nitrophenol		2100	U	25	2100
Acenaphthene		81	J	19	330
Acenaphthylene		17	J	16	330
Acetophenone		330	U	17	330
Anthracene		290	J	13	330
Atrazine		400	U	21	400
Benzaldehyde		330	U	55	330
Benzo[a]anthracene		2000		12	330
Benzo[a]pyrene		2500		8.8	330
Benzo[b]fluoranthene		2500		8.7	330
Benzo[g,h,i]perylene		2000		21	330
Benzo[k]fluoranthene		1000		29	330
Bis(2-chloroethoxy)methane		330	U	15	330
Bis(2-chloroethyl)ether		330	U	17	330
Bis(2-ethylhexyl) phthalate		230	J B	32	330
Butyl benzyl phthalate		330	U	18	330
Caprolactam		330	U	26	330
Carbazole		110	J	18	330
Chrysene		2000		24	330
Di-n-butyl phthalate		330	U	47	330
Di-n-octyl phthalate		330	U	19	330
Dibenz(a,h)anthracene		580		26	330
Dibenzofuran		61	J	23	330

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-E(4')**

Lab Sample ID: 220-11066-1

Client Matrix: Solid

% Moisture: 18.9

Date Sampled: 12/14/2009 1005

Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14580.D
Dilution:	1.0			Initial Weight/Volume:	15.26 g
Date Analyzed:	12/21/2009 1702			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		330	U	33	330
Dimethyl phthalate		330	U	19	330
Fluoranthene		2500		16	330
Fluorene		82	J	20	330
Hexachlorobenzene		330	U	23	330
Hexachlorobutadiene		330	U	25	330
Hexachlorocyclopentadiene		810	U	150	810
Hexachloroethane		330	U	19	330
Indeno[1,2,3-cd]pyrene		2400		21	330
Isophorone		330	U	18	330
N-Nitrosodi-n-propylamine		330	U	22	330
N-Nitrosodiphenylamine		330	U	18	330
Naphthalene		61	J	17	330
Nitrobenzene		330	U	21	330
Pentachlorophenol		810	U	200	810
Phenanthrene		930		16	330
Phenol		330	U	22	330
Pyrene		3200		15	330
2,2'-oxybis[1-chloropropane]		330	U	17	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	52		37 - 120
2-Fluorobiphenyl	54		41 - 120
2-Fluorophenol	49		34 - 120
Nitrobenzene-d5	52		38 - 120
Phenol-d5	52		36 - 120
Terphenyl-d14	81		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-2-W(7')**

Lab Sample ID: 220-11066-2
Client Matrix: Solid
% Moisture: 13.0

Date Sampled: 12/14/2009 1215
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14581.D
Dilution:	1.0			Initial Weight/Volume:	15.11 g
Date Analyzed:	12/21/2009 1730			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		310	U	20	310
2,4,5-Trichlorophenol		1900	U	16	1900
2,4,6-Trichlorophenol		310	U	8.4	310
2,4-Dichlorophenol		310	U	16	310
2,4-Dimethylphenol		310	U	15	310
2,4-Dinitrotoluene		310	U	25	310
2,4-Dinitrophenol		1900	U	92	1900
2,6-Dinitrotoluene		310	U	9.0	310
2-Chloronaphthalene		310	U	13	310
2-Chlorophenol		310	U	18	310
2-Methylnaphthalene		44	J	8.8	310
2-Methylphenol		310	U	18	310
2-Nitroaniline		760	U	19	760
2-Nitrophenol		310	U	19	310
3,3'-Dichlorobenzidine		380	U	63	380
3-Nitroaniline		760	U	9.8	760
4,6-Dinitro-2-methylphenol		1900	U	130	1900
4-Bromophenyl phenyl ether		310	U	20	310
4-Chloro-3-methylphenol		310	U	13	310
4-Chloroaniline		310	U	50	310
4-Chlorophenyl phenyl ether		310	U	23	310
4-Methylphenol		310	U	20	310
4-Nitroaniline		310	U	24	310
4-Nitrophenol		1900	U	23	1900
Acenaphthene		64	J	18	310
Acenaphthylene		160	J	15	310
Acetophenone		310	U	16	310
Anthracene		330		12	310
Atrazine		380	U	20	380
Benzaldehyde		100	J	51	310
Benzo[a]anthracene		1400		11	310
Benzo[a]pyrene		1300		8.3	310
Benzo[b]fluoranthene		1500		8.2	310
Benzo[g,h,i]perylene		1200		20	310
Benzo[k]fluoranthene		530		28	310
Bis(2-chloroethoxy)methane		310	U	14	310
Bis(2-chloroethyl)ether		310	U	16	310
Bis(2-ethylhexyl) phthalate		180	J B	30	310
Butyl benzyl phthalate		310	U	17	310
Caprolactam		310	U	24	310
Carbazole		230	J	17	310
Chrysene		1400		23	310
Di-n-butyl phthalate		310	U	45	310
Di-n-octyl phthalate		310		17	310
Dibenz(a,h)anthracene		270	J	24	310
Dibenzofuran		34	J	22	310

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-5-2-W(7')**

Lab Sample ID: 220-11066-2 | Date Sampled: 12/14/2009 1215
Client Matrix: Solid | % Moisture: 13.0 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14581.D
Dilution:	1.0			Initial Weight/Volume:	15.11 g
Date Analyzed:	12/21/2009 1730			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		310	U	31	310
Dimethyl phthalate		310	U	18	310
Fluoranthene		2500		15	310
Fluorene		60	J	18	310
Hexachlorobenzene		310	U	21	310
Hexachlorobutadiene		310	U	24	310
Hexachlorocyclopentadiene		760	U	140	760
Hexachloroethane		310	U	18	310
Indeno[1,2,3-cd]pyrene		1300		20	310
Isophorone		310	U	17	310
N-Nitrosodi-n-propylamine		310	U	21	310
N-Nitrosodiphenylamine		310	U	17	310
Naphthalene		49	J	16	310
Nitrobenzene		310	U	20	310
Pentachlorophenol		760	U	190	760
Phenanthrene		1100		15	310
Phenol		310	U	20	310
Pyrene		3300		14	310
2,2'-oxybis[1-chloropropane]		310	U	16	310

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	61		37 - 120
2-Fluorobiphenyl	56		41 - 120
2-Fluorophenol	54		34 - 120
Nitrobenzene-d5	57		38 - 120
Phenol-d5	56		36 - 120
Terphenyl-d14	87		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-5-N(6')**

Lab Sample ID: 220-11066-3

Client Matrix: Solid

% Moisture: 13.1

Date Sampled: 12/14/2009 1235

Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14582.D
Dilution:	1.0			Initial Weight/Volume:	15.18 g
Date Analyzed:	12/21/2009 1758			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		310	U	20	310
2,4,5-Trichlorophenol		1900	U	15	1900
2,4,6-Trichlorophenol		310	U	8.4	310
2,4-Dichlorophenol		310	U	16	310
2,4-Dimethylphenol		310	U	15	310
2,4-Dinitrotoluene		310	U	24	310
2,4-Dinitrophenol		1900	U	92	1900
2,6-Dinitrotoluene		310	U	9.0	310
2-Chloronaphthalene		310	U	13	310
2-Chlorophenol		310	U	18	310
2-Methylnaphthalene		39	J	8.8	310
2-Methylphenol		310	U	18	310
2-Nitroaniline		760	U	19	760
2-Nitrophenol		310	U	19	310
3,3'-Dichlorobenzidine		380	U	63	380
3-Nitroaniline		760	U	9.8	760
4,6-Dinitro-2-methylphenol		1900	U	130	1900
4-Bromophenyl phenyl ether		310	U	20	310
4-Chloro-3-methylphenol		310	U	13	310
4-Chloroaniline		310	U	50	310
4-Chlorophenyl phenyl ether		310	U	23	310
4-Methylphenol		310	U	20	310
4-Nitroaniline		310	U	24	310
4-Nitrophenol		1900	U	23	1900
Acenaphthene		310	U	18	310
Acenaphthylene		28	J	15	310
Acetophenone		310	U	16	310
Anthracene		310	U	12	310
Atrazine		380	U	19	380
Benzaldehyde		310	U	51	310
Benzo[a]anthracene		310	U	11	310
Benzo[a]pyrene		19	J	8.3	310
Benzo[b]fluoranthene		270	J	8.2	310
Benzo[g,h,i]perylene		310	U	20	310
Benzo[k]fluoranthene		310	U	28	310
Bis(2-chloroethoxy)methane		310	U	14	310
Bis(2-chloroethyl)ether		310	U	16	310
Bis(2-ethylhexyl) phthalate		140	J B	30	310
Butyl benzyl phthalate		310	U	17	310
Caprolactam		310	U	24	310
Carbazole		310	U	17	310
Chrysene		310	U	23	310
Di-n-butyl phthalate		310	U	45	310
Di-n-octyl phthalate		310	U	17	310
Dibenz(a,h)anthracene		310	U	24	310
Dibenzofuran		310	U	22	310

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-5-5-N(6')**

Lab Sample ID: 220-11066-3 | Date Sampled: 12/14/2009 1235
Client Matrix: Solid | % Moisture: 13.1 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14582.D
Dilution:	1.0			Initial Weight/Volume:	15.18 g
Date Analyzed:	12/21/2009 1758			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		310	U	31	310
Dimethyl phthalate		310	U	18	310
Fluoranthene		42	J	15	310
Fluorene		310	U	18	310
Hexachlorobenzene		310	U	21	310
Hexachlorobutadiene		310	U	24	310
Hexachlorocyclopentadiene		760	U	140	760
Hexachloroethane		310	U	18	310
Indeno[1,2,3-cd]pyrene		310	U	20	310
Isophorone		310	U	17	310
N-Nitrosodi-n-propylamine		310	U	21	310
N-Nitrosodiphenylamine		310	U	17	310
Naphthalene		81	J	16	310
Nitrobenzene		310	U	20	310
Pentachlorophenol		760	U	190	760
Phenanthrene		50	J	15	310
Phenol		310	U	20	310
Pyrene		47	J	14	310
2,2'-oxybis[1-chloropropane]		310	U	16	310

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	57		37 - 120
2-Fluorobiphenyl	56		41 - 120
2-Fluorophenol	55		34 - 120
Nitrobenzene-d5	58		38 - 120
Phenol-d5	58		36 - 120
Terphenyl-d14	71		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-N(5')**

Lab Sample ID: 220-11066-4
Client Matrix: Solid
% Moisture: 12.2

Date Sampled: 12/14/2009 1245
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14583.D
Dilution:	1.0			Initial Weight/Volume:	15.13 g
Date Analyzed:	12/21/2009 1826			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		300	U	20	300
2,4,5-Trichlorophenol		1900	U	15	1900
2,4,6-Trichlorophenol		300	U	8.4	300
2,4-Dichlorophenol		300	U	16	300
2,4-Dimethylphenol		300	U	15	300
2,4-Dinitrotoluene		300	U	24	300
2,4-Dinitrophenol		1900	U	91	1900
2,6-Dinitrotoluene		300	U	8.9	300
2-Chloronaphthalene		300	U	13	300
2-Chlorophenol		300	U	18	300
2-Methylnaphthalene		300	U	8.7	300
2-Methylphenol		300	U	18	300
2-Nitroaniline		760	U	19	760
2-Nitrophenol		300	U	19	300
3,3'-Dichlorobenzidine		370	U	63	370
3-Nitroaniline		760	U	9.7	760
4,6-Dinitro-2-methylphenol		1900	U	130	1900
4-Bromophenyl phenyl ether		300	U	20	300
4-Chloro-3-methylphenol		300	U	13	300
4-Chloroaniline		300	U	50	300
4-Chlorophenyl phenyl ether		300	U	22	300
4-Methylphenol		300	U	20	300
4-Nitroaniline		300	U	23	300
4-Nitrophenol		1900	U	23	1900
Acenaphthene		300	U	18	300
Acenaphthylene		300	U	15	300
Acetophenone		300	U	16	300
Anthracene		300	U	12	300
Atrazine		370	U	19	370
Benzaldehyde		300	U	51	300
Benzo[a]anthracene		300	U	11	300
Benzo[a]pyrene		10	J	8.2	300
Benzo[b]fluoranthene		270	J	8.1	300
Benzo[g,h,i]perylene		300	U	20	300
Benzo[k]fluoranthene		300	U	27	300
Bis(2-chloroethoxy)methane		300	U	14	300
Bis(2-chloroethyl)ether		300	U	16	300
Bis(2-ethylhexyl) phthalate		170	J B	29	300
Butyl benzyl phthalate		300	U	17	300
Caprolactam		300	U	24	300
Carbazole		300	U	17	300
Chrysene		300	U	22	300
Di-n-butyl phthalate		300	U	44	300
Di-n-octyl phthalate		300	U	17	300
Dibenz(a,h)anthracene		300	U	24	300
Dibenzofuran		300	U	21	300

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-N(5')**

Lab Sample ID: 220-11066-4 | Date Sampled: 12/14/2009 1245
Client Matrix: Solid | % Moisture: 12.2 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14583.D
Dilution:	1.0			Initial Weight/Volume:	15.13 g
Date Analyzed:	12/21/2009 1826			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		300	U	31	300
Dimethyl phthalate		300	U	17	300
Fluoranthene		23	J	15	300
Fluorene		300	U	18	300
Hexachlorobenzene		300	U	21	300
Hexachlorobutadiene		300	U	23	300
Hexachlorocyclopentadiene		760	U	140	760
Hexachloroethane		300	U	17	300
Indeno[1,2,3-cd]pyrene		300	U	20	300
Isophorone		300	U	17	300
N-Nitrosodi-n-propylamine		300	U	21	300
N-Nitrosodiphenylamine		300	U	17	300
Naphthalene		300	U	16	300
Nitrobenzene		300	U	19	300
Pentachlorophenol		760	U	190	760
Phenanthrene		300	U	15	300
Phenol		300	U	20	300
Pyrene		23	J	14	300
2,2'-oxybis[1-chloropropane]		300	U	16	300

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	53		37 - 120
2-Fluorobiphenyl	51		41 - 120
2-Fluorophenol	49		34 - 120
Nitrobenzene-d5	53		38 - 120
Phenol-d5	52		36 - 120
Terphenyl-d14	66		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-S(2')**

Lab Sample ID: 220-11066-5
Client Matrix: Solid
% Moisture: 9.0

Date Sampled: 12/14/2009 1415
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	Z14584.D
Dilution:	10			Initial Weight/Volume:	15.12 g
Date Analyzed:	12/21/2009 1855			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		2900	U	190	2900
2,4,5-Trichlorophenol		19000	U	150	19000
2,4,6-Trichlorophenol		2900	U	81	2900
2,4-Dichlorophenol		2900	U	160	2900
2,4-Dimethylphenol		2900	U	140	2900
2,4-Dinitrotoluene		2900	U	230	2900
2,4-Dinitrophenol		19000	U	880	19000
2,6-Dinitrotoluene		2900	U	86	2900
2-Chloronaphthalene		2900	U	130	2900
2-Chlorophenol		2900	U	170	2900
2-Methylnaphthalene		200	J	84	2900
2-Methylphenol		2900	U	180	2900
2-Nitroaniline		7300	U	180	7300
2-Nitrophenol		2900	U	190	2900
3,3'-Dichlorobenzidine		3600	U	610	3600
3-Nitroaniline		7300	U	94	7300
4,6-Dinitro-2-methylphenol		19000	U	1300	19000
4-Bromophenyl phenyl ether		2900	U	190	2900
4-Chloro-3-methylphenol		2900	U	120	2900
4-Chloroaniline		2900	U	480	2900
4-Chlorophenyl phenyl ether		2900	U	220	2900
4-Methylphenol		2900	U	190	2900
4-Nitroaniline		2900	U	230	2900
4-Nitrophenol		19000	U	220	19000
Acenaphthene		530	J	170	2900
Acenaphthylene		2900	U	140	2900
Acetophenone		2900	U	150	2900
Anthracene		690	J	110	2900
Atrazine		3600	U	190	3600
Benzaldehyde		2900	U	490	2900
Benzo[a]anthracene		1700	J	100	2900
Benzo[a]pyrene		1400	J	80	2900
Benzo[b]fluoranthene		4000		78	2900
Benzo[g,h,i]perylene		1100	J	190	2900
Benzo[k]fluoranthene		700	J	260	2900
Bis(2-chloroethoxy)methane		2900	U	140	2900
Bis(2-chloroethyl)ether		2900	U	150	2900
Bis(2-ethylhexyl) phthalate		320	J B	280	2900
Butyl benzyl phthalate		2900	U	160	2900
Caprolactam		2900	U	230	2900
Carbazole		480	J	160	2900
Chrysene		1600	J	220	2900
Di-n-butyl phthalate		2900	U	430	2900
Di-n-octyl phthalate		2900	U	170	2900
Dibenz(a,h)anthracene		260	J	230	2900
Dibenzofuran		240	J	210	2900

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-S(2')**

Lab Sample ID: 220-11066-5 | Date Sampled: 12/14/2009 1415
Client Matrix: Solid | % Moisture: 9.0 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488	Instrument ID: MSZ
Preparation:	3541	Prep Batch: 220-34351	Lab File ID: Z14584.D
Dilution:	10		Initial Weight/Volume: 15.12 g
Date Analyzed:	12/21/2009 1855		Final Weight/Volume: 1.0 mL
Date Prepared:	12/16/2009 1522		Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		2900	U	300	2900
Dimethyl phthalate		2900	U	170	2900
Fluoranthene		3900		150	2900
Fluorene		380	J	180	2900
Hexachlorobenzene		2900	U	200	2900
Hexachlorobutadiene		2900	U	230	2900
Hexachlorocyclopentadiene		7300	U	1400	7300
Hexachloroethane		2900	U	170	2900
Indeno[1,2,3-cd]pyrene		1300	J	190	2900
Isophorone		2900	U	160	2900
N-Nitrosodi-n-propylamine		2900	U	200	2900
N-Nitrosodiphenylamine		2900	U	170	2900
Naphthalene		230	J	150	2900
Nitrobenzene		2900	U	190	2900
Pentachlorophenol		7300	U	1800	7300
Phenanthrene		2900	J	150	2900
Phenol		2900	U	200	2900
Pyrene		3700		140	2900
2,2'-oxybis[1-chloropropane]		2900	U	150	2900

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	30	*	37 - 120
2-Fluorobiphenyl	84		41 - 120
2-Fluorophenol	37		34 - 120
Nitrobenzene-d5	88		38 - 120
Phenol-d5	65		36 - 120
Terphenyl-d14	102		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9')**

Lab Sample ID: 220-11066-6

Client Matrix: Solid

% Moisture: 15.4

Date Sampled: 12/15/2009 0910

Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34589		Instrument ID:	MSA
Preparation:	3541	Prep Batch: 220-34526		Lab File ID:	A9267.D
Dilution:	20			Initial Weight/Volume:	7.53 g
Date Analyzed:	12/23/2009 1044			Final Weight/Volume:	.5 mL
Date Prepared:	12/22/2009 1017			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		11000		410	6400
2,4,5-Trichlorophenol		40000	U	320	40000
2,4,6-Trichlorophenol		6400	U	170	6400
2,4-Dichlorophenol		6400	U	340	6400
2,4-Dimethylphenol		6400	U	310	6400
2,4-Dinitrotoluene		6400	U	510	6400
2,4-Dinitrophenol		40000	U	1900	40000
2,6-Dinitrotoluene		6400	U	190	6400
2-Chloronaphthalene		6400	U	270	6400
2-Chlorophenol		6400	U	370	6400
2-Methylnaphthalene		9500		180	6400
2-Methylphenol		6400	U	380	6400
2-Nitroaniline		16000	U	390	16000
2-Nitrophenol		6400	U	400	6400
3,3'-Dichlorobenzidine		7800	U	1300	7800
3-Nitroaniline		16000	U	200	16000
4,6-Dinitro-2-methylphenol		40000	U	2700	40000
4-Bromophenyl phenyl ether		6400	U	410	6400
4-Chloro-3-methylphenol		6400	U	260	6400
4-Chloroaniline		6400	U	1000	6400
4-Chlorophenyl phenyl ether		6400	U	470	6400
4-Methylphenol		6400	U	420	6400
4-Nitroaniline		6400	U	490	6400
4-Nitrophenol		40000	U	480	40000
Acenaphthene		48000		380	6400
Acenaphthylene		10000		310	6400
Acetophenone		6400	U	330	6400
Anthracene		26000		250	6400
Atrazine		7800	U	400	7800
Benzaldehyde		6400	U	1100	6400
Benzo[a]anthracene		13000	B	230	6400
Benzo[a]pyrene		9500	B	170	6400
Benzo[b]fluoranthene		6700	B	170	6400
Benzo[g,h,i]perylene		2500	J	410	6400
Benzo[k]fluoranthene		2900	J	570	6400
Bis(2-chloroethoxy)methane		6400	U	290	6400
Bis(2-chloroethyl)ether		6400	U	330	6400
Bis(2-ethylhexyl) phthalate		6400	U	610	6400
Butyl benzyl phthalate		6400	U	360	6400
Caprolactam		6400	U	500	6400
Carbazole		420	J	350	6400
Chrysene		12000		470	6400
Di-n-butyl phthalate		6400	U	920	6400
Di-n-octyl phthalate		6400	U	360	6400
Dibenz(a,h)anthracene		770	J	500	6400
Dibenzofuran		3400	J	450	6400

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9')**

Lab Sample ID: 220-11066-6 Date Sampled: 12/15/2009 0910
Client Matrix: Solid % Moisture: 15.4 Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34589		Instrument ID:	MSA
Preparation:	3541	Prep Batch: 220-34526		Lab File ID:	A9267.D
Dilution:	20			Initial Weight/Volume:	7.53 g
Date Analyzed:	12/23/2009 1044			Final Weight/Volume:	.5 mL
Date Prepared:	12/22/2009 1017			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		6400	U	640	6400
Dimethyl phthalate		6400	U	370	6400
Fluoranthene		25000		320	6400
Fluorene		31000		380	6400
Hexachlorobenzene		6400	U	440	6400
Hexachlorobutadiene		6400	U	490	6400
Hexachlorocyclopentadiene		16000	U	3000	16000
Hexachloroethane		6400	U	360	6400
Indeno[1,2,3-cd]pyrene		3100	J	410	6400
Isophorone		6400	U	350	6400
N-Nitrosodi-n-propylamine		6400	U	430	6400
N-Nitrosodiphenylamine		6400	U	360	6400
Naphthalene		16000		330	6400
Nitrobenzene		6400	U	410	6400
Pentachlorophenol		16000	U	3900	16000
Phenanthrene		81000		310	6400
Phenol		6400	U	420	6400
Pyrene		36000		300	6400
2,2'-oxybis[1-chloropropane]		6400	U	330	6400

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	73		37 - 120
2-Fluorobiphenyl	71		41 - 120
2-Fluorophenol	55		34 - 120
Nitrobenzene-d5	56		38 - 120
Phenol-d5	58		36 - 120
Terphenyl-d14	95		32 - 125

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9') F.D.**

Lab Sample ID: 220-11066-7 | Date Sampled: 12/15/2009 0910
Client Matrix: Solid | % Moisture: 10.8 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15398.D
Dilution:	10			Initial Weight/Volume:	15.16 g
Date Analyzed:	12/22/2009 1542			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		6000		190	3000
2,4,5-Trichlorophenol		19000	U	150	19000
2,4,6-Trichlorophenol		3000	U	82	3000
2,4-Dichlorophenol		3000	U	160	3000
2,4-Dimethylphenol		3000	U	150	3000
2,4-Dinitrotoluene		3000	U	240	3000
2,4-Dinitrophenol		19000	U	900	19000
2,6-Dinitrotoluene		3000	U	88	3000
2-Chloronaphthalene		3000	U	130	3000
2-Chlorophenol		3000	U	170	3000
2-Methylnaphthalene		5700		85	3000
2-Methylphenol		3000	U	180	3000
2-Nitroaniline		7400	U	180	7400
2-Nitrophenol		3000	U	190	3000
3,3'-Dichlorobenzidine		3700	U	620	3700
3-Nitroaniline		7400	U	95	7400
4,6-Dinitro-2-methylphenol		19000	U	1300	19000
4-Bromophenyl phenyl ether		3000	U	190	3000
4-Chloro-3-methylphenol		3000	U	120	3000
4-Chloroaniline		3000	U	490	3000
4-Chlorophenyl phenyl ether		3000	U	220	3000
4-Methylphenol		3000	U	200	3000
4-Nitroaniline		3000	U	230	3000
4-Nitrophenol		19000	U	230	19000
Acenaphthene		30000		180	3000
Acenaphthylene		5700		150	3000
Acetophenone		3000	U	160	3000
Anthracene		15000		120	3000
Atrazine		3700	U	190	3700
Benzaldehyde		3000	U	500	3000
Benzo[a]anthracene		7000		110	3000
Benzo[a]pyrene		5400		81	3000
Benzo[b]fluoranthene		3900		80	3000
Benzo[g,h,i]perylene		1200	J	200	3000
Benzo[k]fluoranthene		1600	J	270	3000
Bis(2-chloroethoxy)methane		3000	U	140	3000
Bis(2-chloroethyl)ether		3000	U	160	3000
Bis(2-ethylhexyl) phthalate		3000	U	290	3000
Butyl benzyl phthalate		3000	U	170	3000
Caprolactam		3000	U	240	3000
Carbazole		230	J	170	3000
Chrysene		6600		220	3000
Di-n-butyl phthalate		3000	U	440	3000
Di-n-octyl phthalate		3000	U	170	3000
Dibenz(a,h)anthracene		380	J	240	3000
Dibenzofuran		2000	J	210	3000

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9') F.D.**

Lab Sample ID: 220-11066-7 | Date Sampled: 12/15/2009 0910
Client Matrix: Solid | % Moisture: 10.8 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15398.D
Dilution:	10			Initial Weight/Volume:	15.16 g
Date Analyzed:	12/22/2009 1542			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		3000	U	300	3000
Dimethyl phthalate		3000	U	170	3000
Fluoranthene		14000		150	3000
Fluorene		15000		180	3000
Hexachlorobenzene		3000	U	210	3000
Hexachlorobutadiene		3000	U	230	3000
Hexachlorocyclopentadiene		7400	U	1400	7400
Hexachloroethane		3000	U	170	3000
Indeno[1,2,3-cd]pyrene		1400	J	190	3000
Isophorone		3000	U	170	3000
N-Nitrosodi-n-propylamine		3000	U	200	3000
N-Nitrosodiphenylamine		3000	U	170	3000
Naphthalene		9500		160	3000
Nitrobenzene		3000	U	190	3000
Pentachlorophenol		7400	U	1800	7400
Phenanthrene		46000		150	3000
Phenol		3000	U	200	3000
Pyrene		21000		140	3000
2,2'-oxybis[1-chloropropane]		3000	U	160	3000

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	65		37 - 120
2-Fluorobiphenyl	74		41 - 120
2-Fluorophenol	59		34 - 120
Nitrobenzene-d5	63		38 - 120
Phenol-d5	62		36 - 120
Terphenyl-d14	78		32 - 125

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4')**

Lab Sample ID: 220-11066-8 | Date Sampled: 12/15/2009 1120
Client Matrix: Solid | % Moisture: 20.3 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15399.D
Dilution:	1.0			Initial Weight/Volume:	15.33 g
Date Analyzed:	12/22/2009 1613			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		66	J	21	330
2,4,5-Trichlorophenol		2100	U	17	2100
2,4,6-Trichlorophenol		330	U	9.1	330
2,4-Dichlorophenol		330	U	18	330
2,4-Dimethylphenol		330	U	16	330
2,4-Dinitrotoluene		330	U	26	330
2,4-Dinitrophenol		2100	U	99	2100
2,6-Dinitrotoluene		330	U	9.7	330
2-Chloronaphthalene		330	U	14	330
2-Chlorophenol		330	U	19	330
2-Methylnaphthalene		220	J	9.5	330
2-Methylphenol		330	U	20	330
2-Nitroaniline		820	U	20	820
2-Nitrophenol		330	U	21	330
3,3'-Dichlorobenzidine		410	U	68	410
3-Nitroaniline		820	U	11	820
4,6-Dinitro-2-methylphenol		2100	U	140	2100
4-Bromophenyl phenyl ether		330	U	21	330
4-Chloro-3-methylphenol		330	U	14	330
4-Chloroaniline		330	U	54	330
4-Chlorophenyl phenyl ether		330	U	24	330
4-Methylphenol		330	U	22	330
4-Nitroaniline		330	U	25	330
4-Nitrophenol		2100	U	25	2100
Acenaphthene		41	J	20	330
Acenaphthylene		29	J	16	330
Acetophenone		330	U	17	330
Anthracene		79	J	13	330
Atrazine		410	U	21	410
Benzaldehyde		470		55	330
Benzo[a]anthracene		440		12	330
Benzo[a]pyrene		380		9.0	330
Benzo[b]fluoranthene		740		8.8	330
Benzo[g,h,i]perylene		290	J	22	330
Benzo[k]fluoranthene		250	J	30	330
Bis(2-chloroethoxy)methane		330	U	15	330
Bis(2-chloroethyl)ether		330	U	17	330
Bis(2-ethylhexyl) phthalate		150	J B	32	330
Butyl benzyl phthalate		330	U	19	330
Caprolactam		330	U	26	330
Carbazole		46	J	18	330
Chrysene		750		24	330
Di-n-butyl phthalate		54	J	48	330
Di-n-octyl phthalate		330	U	19	330
Dibenz(a,h)anthracene		95	J	26	330
Dibenzofuran		73	J	23	330

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4')**

Lab Sample ID: 220-11066-8 | Date Sampled: 12/15/2009 1120
Client Matrix: Solid | % Moisture: 20.3 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15399.D
Dilution:	1.0			Initial Weight/Volume:	15.33 g
Date Analyzed:	12/22/2009 1613			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		330	U	33	330
Dimethyl phthalate		330	U	19	330
Fluoranthene		660		16	330
Fluorene		33	J	20	330
Hexachlorobenzene		330	U	23	330
Hexachlorobutadiene		330	U	26	330
Hexachlorocyclopentadiene		820	U	160	820
Hexachloroethane		330	U	19	330
Indeno[1,2,3-cd]pyrene		330	J	21	330
Isophorone		330	U	18	330
N-Nitrosodi-n-propylamine		330	U	22	330
N-Nitrosodiphenylamine		330	U	19	330
Naphthalene		160	J	17	330
Nitrobenzene		330	U	21	330
Pentachlorophenol		820	U	200	820
Phenanthrene		620		16	330
Phenol		330	U	22	330
Pyrene		610		16	330
2,2'-oxybis[1-chloropropane]		330	U	17	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	60		37 - 120
2-Fluorobiphenyl	56		41 - 120
2-Fluorophenol	55		34 - 120
Nitrobenzene-d5	57		38 - 120
Phenol-d5	55		36 - 120
Terphenyl-d14	63		32 - 125

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4') F.D.**

Lab Sample ID: 220-11066-9 | Date Sampled: 12/15/2009 1120
Client Matrix: Solid | % Moisture: 23.4 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15400.D
Dilution:	1.0			Initial Weight/Volume:	15.08 g
Date Analyzed:	12/22/2009 1643			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		66	J	23	350
2,4,5-Trichlorophenol		2200	U	18	2200
2,4,6-Trichlorophenol		350	U	9.6	350
2,4-Dichlorophenol		350	U	19	350
2,4-Dimethylphenol		350	U	17	350
2,4-Dinitrotoluene		350	U	28	350
2,4-Dinitrophenol		2200	U	110	2200
2,6-Dinitrotoluene		350	U	10	350
2-Chloronaphthalene		350	U	15	350
2-Chlorophenol		350	U	20	350
2-Methylnaphthalene		200	J	10	350
2-Methylphenol		350	U	21	350
2-Nitroaniline		870	U	21	870
2-Nitrophenol		350	U	22	350
3,3'-Dichlorobenzidine		430	U	72	430
3-Nitroaniline		870	U	11	870
4,6-Dinitro-2-methylphenol		2200	U	150	2200
4-Bromophenyl phenyl ether		350	U	23	350
4-Chloro-3-methylphenol		350	U	14	350
4-Chloroaniline		350	U	57	350
4-Chlorophenyl phenyl ether		350	U	26	350
4-Methylphenol		350	U	23	350
4-Nitroaniline		350	U	27	350
4-Nitrophenol		2200	U	26	2200
Acenaphthene		57	J	21	350
Acenaphthylene		21	J	17	350
Acetophenone		350	U	18	350
Anthracene		100	J	14	350
Atrazine		430	U	22	430
Benzaldehyde		480		58	350
Benzo[a]anthracene		590		12	350
Benzo[a]pyrene		490		9.5	350
Benzo[b]fluoranthene		900		9.3	350
Benzo[g,h,i]perylene		350	J	23	350
Benzo[k]fluoranthene		330	J	31	350
Bis(2-chloroethoxy)methane		350	U	16	350
Bis(2-chloroethyl)ether		350	U	18	350
Bis(2-ethylhexyl) phthalate		120	J B	34	350
Butyl benzyl phthalate		26	J	20	350
Caprolactam		350	U	28	350
Carbazole		54	J	19	350
Chrysene		900		26	350
Di-n-butyl phthalate		350	U	51	350
Di-n-octyl phthalate		30	J	20	350
Dibenz(a,h)anthracene		120	J	28	350
Dibenzofuran		79	J	25	350

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4') F.D.**

Lab Sample ID: 220-11066-9 | Date Sampled: 12/15/2009 1120
Client Matrix: Solid | % Moisture: 23.4 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15400.D
Dilution:	1.0			Initial Weight/Volume:	15.08 g
Date Analyzed:	12/22/2009 1643			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		350	U	35	350
Dimethyl phthalate		350	U	20	350
Fluoranthene		840		17	350
Fluorene		46	J	21	350
Hexachlorobenzene		350	U	24	350
Hexachlorobutadiene		350	U	27	350
Hexachlorocyclopentadiene		870	U	160	870
Hexachloroethane		350	U	20	350
Indeno[1,2,3-cd]pyrene		400		23	350
Isophorone		350	U	19	350
N-Nitrosodi-n-propylamine		350	U	24	350
N-Nitrosodiphenylamine		350	U	20	350
Naphthalene		150	J	18	350
Nitrobenzene		350	U	22	350
Pentachlorophenol		870	U	210	870
Phenanthrene		710		17	350
Phenol		350	U	23	350
Pyrene		780		16	350
2,2'-oxybis[1-chloropropane]		350	U	18	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	55		37 - 120
2-Fluorobiphenyl	54		41 - 120
2-Fluorophenol	51		34 - 120
Nitrobenzene-d5	55		38 - 120
Phenol-d5	52		36 - 120
Terphenyl-d14	59		32 - 125

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10')**

Lab Sample ID: 220-11066-10 | Date Sampled: 12/15/2009 1200
Client Matrix: Solid | % Moisture: 23.6 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15401.D
Dilution:	1.0			Initial Weight/Volume:	15.25 g
Date Analyzed:	12/22/2009 1714			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		350	U	23	350
2,4,5-Trichlorophenol		2200	U	18	2200
2,4,6-Trichlorophenol		350	U	9.5	350
2,4-Dichlorophenol		350	U	19	350
2,4-Dimethylphenol		350	U	17	350
2,4-Dinitrotoluene		350	U	28	350
2,4-Dinitrophenol		2200	U	100	2200
2,6-Dinitrotoluene		350	U	10	350
2-Chloronaphthalene		350	U	15	350
2-Chlorophenol		350	U	20	350
2-Methylnaphthalene		77	J	9.9	350
2-Methylphenol		350	U	21	350
2-Nitroaniline		860	U	21	860
2-Nitrophenol		350	U	22	350
3,3'-Dichlorobenzidine		420	U	71	420
3-Nitroaniline		860	U	11	860
4,6-Dinitro-2-methylphenol		2200	U	150	2200
4-Bromophenyl phenyl ether		350	U	22	350
4-Chloro-3-methylphenol		350	U	14	350
4-Chloroaniline		350	U	57	350
4-Chlorophenyl phenyl ether		350	U	26	350
4-Methylphenol		350	U	23	350
4-Nitroaniline		350	U	27	350
4-Nitrophenol		2200	U	26	2200
Acenaphthene		53	J	21	350
Acenaphthylene		99	J	17	350
Acetophenone		350	U	18	350
Anthracene		190	J	14	350
Atrazine		420	U	22	420
Benzaldehyde		350	U	58	350
Benzo[a]anthracene		540		12	350
Benzo[a]pyrene		710		9.4	350
Benzo[b]fluoranthene		830		9.3	350
Benzo[g,h,i]perylene		380		23	350
Benzo[k]fluoranthene		270	J	31	350
Bis(2-chloroethoxy)methane		350	U	16	350
Bis(2-chloroethyl)ether		350	U	18	350
Bis(2-ethylhexyl) phthalate		180	J B	34	350
Butyl benzyl phthalate		350	U	19	350
Caprolactam		350	U	27	350
Carbazole		41	J	19	350
Chrysene		590		26	350
Di-n-butyl phthalate		350	U	50	350
Di-n-octyl phthalate		350	U	20	350
Dibenz(a,h)anthracene		98	J	27	350
Dibenzofuran		37	J	24	350

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10')**

Lab Sample ID: 220-11066-10 | Date Sampled: 12/15/2009 1200
Client Matrix: Solid | % Moisture: 23.6 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15401.D
Dilution:	1.0			Initial Weight/Volume:	15.25 g
Date Analyzed:	12/22/2009 1714			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		350	U	35	350
Dimethyl phthalate		350	U	20	350
Fluoranthene		670		17	350
Fluorene		82	J	21	350
Hexachlorobenzene		350	U	24	350
Hexachlorobutadiene		350	U	27	350
Hexachlorocyclopentadiene		860	U	160	860
Hexachloroethane		350	U	20	350
Indeno[1,2,3-cd]pyrene		380		23	350
Isophorone		350	U	19	350
N-Nitrosodi-n-propylamine		350	U	23	350
N-Nitrosodiphenylamine		350	U	20	350
Naphthalene		100	J	18	350
Nitrobenzene		350	U	22	350
Pentachlorophenol		860	U	210	860
Phenanthrene		520		17	350
Phenol		350	U	23	350
Pyrene		2100		16	350
2,2'-oxybis[1-chloropropane]		350	U	18	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	59		37 - 120
2-Fluorobiphenyl	53		41 - 120
2-Fluorophenol	49		34 - 120
Nitrobenzene-d5	51		38 - 120
Phenol-d5	49		36 - 120
Terphenyl-d14	55		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10') F.D.**

Lab Sample ID: 220-11066-11

Client Matrix: Solid

% Moisture: 19.8

Date Sampled: 12/15/2009 1200

Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15402.D
Dilution:	1.0			Initial Weight/Volume:	15.23 g
Date Analyzed:	12/22/2009 1744			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		330	U	22	330
2,4,5-Trichlorophenol		2100	U	17	2100
2,4,6-Trichlorophenol		330	U	9.1	330
2,4-Dichlorophenol		330	U	18	330
2,4-Dimethylphenol		330	U	16	330
2,4-Dinitrotoluene		330	U	26	330
2,4-Dinitrophenol		2100	U	100	2100
2,6-Dinitrotoluene		330	U	9.7	330
2-Chloronaphthalene		330	U	14	330
2-Chlorophenol		330	U	19	330
2-Methylnaphthalene		74	J	9.5	330
2-Methylphenol		330	U	20	330
2-Nitroaniline		820	U	20	820
2-Nitrophenol		330	U	21	330
3,3'-Dichlorobenzidine		410	U	68	410
3-Nitroaniline		820	U	11	820
4,6-Dinitro-2-methylphenol		2100	U	140	2100
4-Bromophenyl phenyl ether		330	U	21	330
4-Chloro-3-methylphenol		330	U	14	330
4-Chloroaniline		330	U	54	330
4-Chlorophenyl phenyl ether		330	U	24	330
4-Methylphenol		330	U	22	330
4-Nitroaniline		330	U	25	330
4-Nitrophenol		2100	U	25	2100
Acenaphthene		33	J	20	330
Acenaphthylene		70	J	16	330
Acetophenone		330	U	17	330
Anthracene		130	J	13	330
Atrazine		410	U	21	410
Benzaldehyde		330	U	55	330
Benzo[a]anthracene		400		12	330
Benzo[a]pyrene		540		9.0	330
Benzo[b]fluoranthene		570		8.8	330
Benzo[g,h,i]perylene		250	J	22	330
Benzo[k]fluoranthene		230	J	30	330
Bis(2-chloroethoxy)methane		330	U	15	330
Bis(2-chloroethyl)ether		330	U	17	330
Bis(2-ethylhexyl) phthalate		140	J B	32	330
Butyl benzyl phthalate		330	U	19	330
Caprolactam		330	U	26	330
Carbazole		34	J	18	330
Chrysene		430		24	330
Di-n-butyl phthalate		330	U	48	330
Di-n-octyl phthalate		330	U	19	330
Dibenz(a,h)anthracene		67	J	26	330
Dibenzofuran		24	J	23	330

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10') F.D.**

Lab Sample ID: 220-11066-11 Date Sampled: 12/15/2009 1200
Client Matrix: Solid % Moisture: 19.8 Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15402.D
Dilution:	1.0			Initial Weight/Volume:	15.23 g
Date Analyzed:	12/22/2009 1744			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		330	U	33	330
Dimethyl phthalate		330	U	19	330
Fluoranthene		540		16	330
Fluorene		53	J	20	330
Hexachlorobenzene		330	U	23	330
Hexachlorobutadiene		330	U	26	330
Hexachlorocyclopentadiene		820	U	160	820
Hexachloroethane		330	U	19	330
Indeno[1,2,3-cd]pyrene		270	J	22	330
Isophorone		330	U	18	330
N-Nitrosodi-n-propylamine		330	U	22	330
N-Nitrosodiphenylamine		330	U	19	330
Naphthalene		100	J	17	330
Nitrobenzene		330	U	21	330
Pentachlorophenol		820	U	200	820
Phenanthrene		350		16	330
Phenol		330	U	22	330
Pyrene		1500		16	330
2,2'-oxybis[1-chloropropane]		330	U	17	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	74		37 - 120
2-Fluorobiphenyl	69		41 - 120
2-Fluorophenol	67		34 - 120
Nitrobenzene-d5	69		38 - 120
Phenol-d5	67		36 - 120
Terphenyl-d14	76		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-N(11')**

Lab Sample ID: 220-11066-12

Client Matrix: Solid

% Moisture: 25.9

Date Sampled: 12/15/2009 1215

Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15403.D
Dilution:	1.0			Initial Weight/Volume:	15.05 g
Date Analyzed:	12/22/2009 1815			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		360	U	24	360
2,4,5-Trichlorophenol		2300	U	18	2300
2,4,6-Trichlorophenol		360	U	9.9	360
2,4-Dichlorophenol		360	U	19	360
2,4-Dimethylphenol		360	U	18	360
2,4-Dinitrotoluene		360	U	29	360
2,4-Dinitrophenol		2300	U	110	2300
2,6-Dinitrotoluene		360	U	11	360
2-Chloronaphthalene		360	U	15	360
2-Chlorophenol		360	U	21	360
2-Methylnaphthalene		29	J	10	360
2-Methylphenol		360	U	22	360
2-Nitroaniline		900	U	22	900
2-Nitrophenol		360	U	23	360
3,3'-Dichlorobenzidine		440	U	75	440
3-Nitroaniline		900	U	12	900
4,6-Dinitro-2-methylphenol		2300	U	160	2300
4-Bromophenyl phenyl ether		360	U	23	360
4-Chloro-3-methylphenol		360	U	15	360
4-Chloroaniline		360	U	59	360
4-Chlorophenyl phenyl ether		360	U	27	360
4-Methylphenol		360	U	24	360
4-Nitroaniline		360	U	28	360
4-Nitrophenol		2300	U	27	2300
Acenaphthene		360	U	22	360
Acenaphthylene		360	U	18	360
Acetophenone		360	U	19	360
Anthracene		32	J	14	360
Atrazine		440	U	23	440
Benzaldehyde		360	U	61	360
Benzo[a]anthracene		59	J	13	360
Benzo[a]pyrene		46	J	9.8	360
Benzo[b]fluoranthene		50	J	9.7	360
Benzo[g,h,i]perylene		360	U	24	360
Benzo[k]fluoranthene		360	U	33	360
Bis(2-chloroethoxy)methane		360	U	17	360
Bis(2-chloroethyl)ether		360	U	19	360
Bis(2-ethylhexyl) phthalate		44	J B	35	360
Butyl benzyl phthalate		360	U	20	360
Caprolactam		360	U	29	360
Carbazole		360	U	20	360
Chrysene		51	J	27	360
Di-n-butyl phthalate		360	U	53	360
Di-n-octyl phthalate		360	U	21	360
Dibenz(a,h)anthracene		360	U	29	360
Dibenzofuran		360	U	26	360

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-N(11')**

Lab Sample ID: 220-11066-12 | Date Sampled: 12/15/2009 1215
Client Matrix: Solid | % Moisture: 25.9 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34351		Lab File ID:	C15403.D
Dilution:	1.0			Initial Weight/Volume:	15.05 g
Date Analyzed:	12/22/2009 1815			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		360	U	37	360
Dimethyl phthalate		360	U	21	360
Fluoranthene		84	J	18	360
Fluorene		24	J	22	360
Hexachlorobenzene		360	U	25	360
Hexachlorobutadiene		360	U	28	360
Hexachlorocyclopentadiene		900	U	170	900
Hexachloroethane		360	U	21	360
Indeno[1,2,3-cd]pyrene		360	U	24	360
Isophorone		360	U	20	360
N-Nitrosodi-n-propylamine		360	U	24	360
N-Nitrosodiphenylamine		360	U	20	360
Naphthalene		32	J	19	360
Nitrobenzene		360	U	23	360
Pentachlorophenol		900	U	220	900
Phenanthrene		70	J	18	360
Phenol		360	U	24	360
Pyrene		250	J	17	360
2,2'-oxybis[1-chloropropane]		360	U	19	360

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	75		37 - 120
2-Fluorobiphenyl	69		41 - 120
2-Fluorophenol	68		34 - 120
Nitrobenzene-d5	69		38 - 120
Phenol-d5	68		36 - 120
Terphenyl-d14	80		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-8-60-S(12')**

Lab Sample ID: 220-11066-13

Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 12/15/2009 1230

Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34355		Lab File ID:	C15397.D
Dilution:	1.0			Initial Weight/Volume:	15.25 g
Date Analyzed:	12/22/2009 1511			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1643			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		21	J	21	320
2,4,5-Trichlorophenol		2000	U	16	2000
2,4,6-Trichlorophenol		320	U	8.9	320
2,4-Dichlorophenol		320	U	17	320
2,4-Dimethylphenol		320	U	16	320
2,4-Dinitrotoluene		320	U	26	320
2,4-Dinitrophenol		2000	U	97	2000
2,6-Dinitrotoluene		320	U	9.5	320
2-Chloronaphthalene		320	U	14	320
2-Chlorophenol		320	U	19	320
2-Methylnaphthalene		70	J	9.3	320
2-Methylphenol		320	U	19	320
2-Nitroaniline		810	U	20	810
2-Nitrophenol		320	U	20	320
3,3'-Dichlorobenzidine		400	U	67	400
3-Nitroaniline		810	U	10	810
4,6-Dinitro-2-methylphenol		2000	U	140	2000
4-Bromophenyl phenyl ether		320	U	21	320
4-Chloro-3-methylphenol		320	U	13	320
4-Chloroaniline		320	U	53	320
4-Chlorophenyl phenyl ether		320	U	24	320
4-Methylphenol		320	U	21	320
4-Nitroaniline		320	U	25	320
4-Nitrophenol		2000	U	25	2000
Acenaphthene		320	U	19	320
Acenaphthylene		17	J	16	320
Acetophenone		320	U	17	320
Anthracene		46	J	13	320
Atrazine		400	U	21	400
Benzaldehyde		320	U	54	320
Benzo[a]anthracene		160	J	12	320
Benzo[a]pyrene		170	J	8.8	320
Benzo[b]fluoranthene		240	J	8.7	320
Benzo[g,h,i]perylene		110	J	21	320
Benzo[k]fluoranthene		64	J	29	320
Bis(2-chloroethoxy)methane		320	U	15	320
Bis(2-chloroethyl)ether		320	U	17	320
Bis(2-ethylhexyl) phthalate		2900	B	31	320
Butyl benzyl phthalate		320	U	18	320
Caprolactam		44	J	25	320
Carbazole		24	J	18	320
Chrysene		240	J	24	320
Di-n-butyl phthalate		50	J	47	320
Di-n-octyl phthalate		320	U	18	320
Dibenz(a,h)anthracene		26	J	25	320
Dibenzofuran		320	U	23	320

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-8-60-S(12')**

Lab Sample ID: 220-11066-13 | Date Sampled: 12/15/2009 1230
Client Matrix: Solid | % Moisture: 18.2 | Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34531		Instrument ID:	MSC
Preparation:	3541	Prep Batch: 220-34355		Lab File ID:	C15397.D
Dilution:	1.0			Initial Weight/Volume:	15.25 g
Date Analyzed:	12/22/2009 1511			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1643			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Diethyl phthalate		320	U	33	320
Dimethyl phthalate		320	U	19	320
Fluoranthene		300	J	16	320
Fluorene		320	U	19	320
Hexachlorobenzene		320	U	22	320
Hexachlorobutadiene		320	U	25	320
Hexachlorocyclopentadiene		810	U	150	810
Hexachloroethane		320	U	19	320
Indeno[1,2,3-cd]pyrene		100	J	21	320
Isophorone		320	U	18	320
N-Nitrosodi-n-propylamine		320	U	22	320
N-Nitrosodiphenylamine		320	U	18	320
Naphthalene		260	J	17	320
Nitrobenzene		320	U	21	320
Pentachlorophenol		810	U	200	810
Phenanthrene		320	J	16	320
Phenol		320	U	22	320
Pyrene		330		15	320
2,2'-oxybis[1-chloropropane]		320	U	17	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	56		37 - 120
2-Fluorobiphenyl	61		41 - 120
2-Fluorophenol	59		34 - 120
Nitrobenzene-d5	61		38 - 120
Phenol-d5	60		36 - 120
Terphenyl-d14	75		32 - 125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-1**

Lab Sample ID: 220-11066-14
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3510C	Prep Batch: 220-34329		Lab File ID:	Z14577.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	12/21/2009 1536			Final Weight/Volume:	1 mL
Date Prepared:	12/16/2009 1010			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	4.0	U	0.37	4.0
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	4.0	U	0.37	4.0
2,4-Dichlorophenol	4.0	U	0.33	4.0
2,4-Dimethylphenol	4.0	U	0.33	4.0
2,4-Dinitrotoluene	4.0	U	0.40	4.0
2,4-Dinitrophenol	25	U	0.43	25
2,6-Dinitrotoluene	4.0	U	0.26	4.0
2-Chloronaphthalene	4.0	U	0.39	4.0
2-Chlorophenol	4.0	U	0.23	4.0
2-Methylnaphthalene	4.0	U	0.27	4.0
2-Methylphenol	4.0	U	0.24	4.0
2-Nitroaniline	4.0	U	0.34	4.0
2-Nitrophenol	4.0	U	0.27	4.0
3,3'-Dichlorobenzidine	4.0	U	0.36	4.0
3-Nitroaniline	4.0	U	0.23	4.0
4,6-Dinitro-2-methylphenol	25	U	1.9	25
4-Bromophenyl phenyl ether	4.0	U	0.44	4.0
4-Chloro-3-methylphenol	5.0	U	0.34	5.0
4-Chloroaniline	4.0	U	0.29	4.0
4-Chlorophenyl phenyl ether	4.0	U	0.35	4.0
4-Methylphenol	4.0	U	0.29	4.0
4-Nitroaniline	4.0	U	0.20	4.0
4-Nitrophenol	10	U	1.4	10
Acenaphthene	4.0	U	0.31	4.0
Acenaphthylene	4.0	U	0.34	4.0
Acetophenone	4.0	U	0.33	4.0
Anthracene	4.0	U	0.29	4.0
Atrazine	4.0	U	0.18	4.0
Benzaldehyde	1.2	J	0.68	10
Benzo[a]anthracene	4.0	U	0.30	4.0
Benzo[a]pyrene	4.0	U	0.35	4.0
Benzo[b]fluoranthene	4.0	U	0.36	4.0
Benzo[g,h,i]perylene	4.0	U	0.36	4.0
Benzo[k]fluoranthene	4.0	U	0.40	4.0
Bis(2-chloroethoxy)methane	4.0	U	0.31	4.0
Bis(2-chloroethyl)ether	4.0	U	0.29	4.0
Bis(2-ethylhexyl) phthalate	4.0	U	0.54	4.0
Butyl benzyl phthalate	4.0	U	0.35	4.0
Caprolactam	4.0	U	0.92	4.0
Carbazole	4.0	U	0.33	4.0
Chrysene	4.0	U	0.25	4.0
Di-n-butyl phthalate	4.0	U	0.35	4.0
Di-n-octyl phthalate	4.0	U	0.38	4.0
Dibenz(a,h)anthracene	4.0	U	0.38	4.0
Dibenzofuran	4.0	U	0.43	4.0

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-1**

Lab Sample ID: 220-11066-14
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3510C	Prep Batch: 220-34329		Lab File ID:	Z14577.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	12/21/2009 1536			Final Weight/Volume:	1 mL
Date Prepared:	12/16/2009 1010			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Diethyl phthalate	4.0	U	0.43	4.0
Dimethyl phthalate	4.0	U	0.38	4.0
Fluoranthene	4.0	U	0.31	4.0
Fluorene	4.0	U	0.26	4.0
Hexachlorobenzene	4.0	U	0.33	4.0
Hexachlorobutadiene	4.0	U	0.20	4.0
Hexachlorocyclopentadiene	4.0	U	0.35	4.0
Hexachloroethane	4.0	U	0.37	4.0
Indeno[1,2,3-cd]pyrene	4.0	U	0.28	4.0
Isophorone	4.0	U	0.31	4.0
N-Nitrosodi-n-propylamine	4.0	U	0.33	4.0
N-Nitrosodiphenylamine	4.0	U	0.33	4.0
Naphthalene	4.0	U	0.30	4.0
Nitrobenzene	4.0	U	0.28	4.0
Pentachlorophenol	25	U	0.31	25
Phenanthrene	4.0	U	0.28	4.0
Phenol	4.0	U	0.19	4.0
Pyrene	4.0	U	0.33	4.0
2,2'-oxybis[1-chloropropane]	4.0	U	0.25	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	69		36 - 120
2-Fluorobiphenyl	63		39 - 120
2-Fluorophenol	33		13 - 120
Nitrobenzene-d5	62		40 - 120
Phenol-d5	23		10 - 120
Terphenyl-d14	85		10 - 120

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-2**

Lab Sample ID: 220-11066-15
Client Matrix: Water

Date Sampled: 12/15/2009 1425
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3510C	Prep Batch: 220-34329		Lab File ID:	Z14578.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	12/21/2009 1604			Final Weight/Volume:	1 mL
Date Prepared:	12/16/2009 1010			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	4.0	U	0.37	4.0
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	4.0	U	0.37	4.0
2,4-Dichlorophenol	4.0	U	0.33	4.0
2,4-Dimethylphenol	4.0	U	0.33	4.0
2,4-Dinitrotoluene	4.0	U	0.40	4.0
2,4-Dinitrophenol	25	U	0.43	25
2,6-Dinitrotoluene	4.0	U	0.26	4.0
2-Chloronaphthalene	4.0	U	0.39	4.0
2-Chlorophenol	4.0	U	0.23	4.0
2-Methylnaphthalene	4.0	U	0.27	4.0
2-Methylphenol	4.0	U	0.24	4.0
2-Nitroaniline	4.0	U	0.34	4.0
2-Nitrophenol	4.0	U	0.27	4.0
3,3'-Dichlorobenzidine	4.0	U	0.36	4.0
3-Nitroaniline	4.0	U	0.23	4.0
4,6-Dinitro-2-methylphenol	25	U	1.9	25
4-Bromophenyl phenyl ether	4.0	U	0.44	4.0
4-Chloro-3-methylphenol	5.0	U	0.34	5.0
4-Chloroaniline	4.0	U	0.29	4.0
4-Chlorophenyl phenyl ether	4.0	U	0.35	4.0
4-Methylphenol	4.0	U	0.29	4.0
4-Nitroaniline	4.0	U	0.20	4.0
4-Nitrophenol	10	U	1.4	10
Acenaphthene	4.0	U	0.31	4.0
Acenaphthylene	4.0	U	0.34	4.0
Acetophenone	4.0	U	0.33	4.0
Anthracene	4.0	U	0.29	4.0
Atrazine	4.0	U	0.18	4.0
Benzaldehyde	0.99	J	0.68	10
Benzo[a]anthracene	4.0	U	0.30	4.0
Benzo[a]pyrene	4.0	U	0.35	4.0
Benzo[b]fluoranthene	4.0	U	0.36	4.0
Benzo[g,h,i]perylene	4.0	U	0.36	4.0
Benzo[k]fluoranthene	4.0	U	0.40	4.0
Bis(2-chloroethoxy)methane	4.0	U	0.31	4.0
Bis(2-chloroethyl)ether	4.0	U	0.29	4.0
Bis(2-ethylhexyl) phthalate	4.0	U	0.54	4.0
Butyl benzyl phthalate	4.0	U	0.35	4.0
Caprolactam	4.0	U	0.92	4.0
Carbazole	4.0	U	0.33	4.0
Chrysene	4.0	U	0.25	4.0
Di-n-butyl phthalate	4.0	U	0.35	4.0
Di-n-octyl phthalate	4.0	U	0.38	4.0
Dibenz(a,h)anthracene	4.0	U	0.38	4.0
Dibenzofuran	4.0	U	0.43	4.0

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-2**

Lab Sample ID: 220-11066-15
Client Matrix: Water

Date Sampled: 12/15/2009 1425
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3510C	Prep Batch: 220-34329		Lab File ID:	Z14578.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	12/21/2009 1604			Final Weight/Volume:	1 mL
Date Prepared:	12/16/2009 1010			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Diethyl phthalate	4.0	U	0.43	4.0
Dimethyl phthalate	4.0	U	0.38	4.0
Fluoranthene	4.0	U	0.31	4.0
Fluorene	4.0	U	0.26	4.0
Hexachlorobenzene	4.0	U	0.33	4.0
Hexachlorobutadiene	4.0	U	0.20	4.0
Hexachlorocyclopentadiene	4.0	U	0.35	4.0
Hexachloroethane	4.0	U	0.37	4.0
Indeno[1,2,3-cd]pyrene	4.0	U	0.28	4.0
Isophorone	4.0	U	0.31	4.0
N-Nitrosodi-n-propylamine	4.0	U	0.33	4.0
N-Nitrosodiphenylamine	4.0	U	0.33	4.0
Naphthalene	4.0	U	0.30	4.0
Nitrobenzene	4.0	U	0.28	4.0
Pentachlorophenol	25	U	0.31	25
Phenanthrene	4.0	U	0.28	4.0
Phenol	4.0	U	0.19	4.0
Pyrene	4.0	U	0.33	4.0
2,2'-oxybis[1-chloropropane]	4.0	U	0.25	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	68		36 - 120
2-Fluorobiphenyl	63		39 - 120
2-Fluorophenol	34		13 - 120
Nitrobenzene-d5	63		40 - 120
Phenol-d5	23		10 - 120
Terphenyl-d14	90		10 - 120

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-3**

Lab Sample ID: 220-11066-16
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3510C	Prep Batch: 220-34329		Lab File ID:	Z14579.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	12/21/2009 1633			Final Weight/Volume:	1 mL
Date Prepared:	12/16/2009 1010			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	4.0	U	0.37	4.0
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	4.0	U	0.37	4.0
2,4-Dichlorophenol	4.0	U	0.33	4.0
2,4-Dimethylphenol	4.0	U	0.33	4.0
2,4-Dinitrotoluene	4.0	U	0.40	4.0
2,4-Dinitrophenol	25	U	0.43	25
2,6-Dinitrotoluene	4.0	U	0.26	4.0
2-Chloronaphthalene	4.0	U	0.39	4.0
2-Chlorophenol	4.0	U	0.23	4.0
2-Methylnaphthalene	4.0	U	0.27	4.0
2-Methylphenol	4.0	U	0.24	4.0
2-Nitroaniline	4.0	U	0.34	4.0
2-Nitrophenol	4.0	U	0.27	4.0
3,3'-Dichlorobenzidine	4.0	U	0.36	4.0
3-Nitroaniline	4.0	U	0.23	4.0
4,6-Dinitro-2-methylphenol	25	U	1.9	25
4-Bromophenyl phenyl ether	4.0	U	0.44	4.0
4-Chloro-3-methylphenol	5.0	U	0.34	5.0
4-Chloroaniline	4.0	U	0.29	4.0
4-Chlorophenyl phenyl ether	4.0	U	0.35	4.0
4-Methylphenol	4.0	U	0.29	4.0
4-Nitroaniline	4.0	U	0.20	4.0
4-Nitrophenol	10	U	1.4	10
Acenaphthene	4.0	U	0.31	4.0
Acenaphthylene	4.0	U	0.34	4.0
Acetophenone	4.0	U	0.33	4.0
Anthracene	4.0	U	0.29	4.0
Atrazine	4.0	U	0.18	4.0
Benzaldehyde	10	U	0.68	10
Benzo[a]anthracene	4.0	U	0.30	4.0
Benzo[a]pyrene	4.0	U	0.35	4.0
Benzo[b]fluoranthene	4.0	U	0.36	4.0
Benzo[g,h,i]perylene	4.0	U	0.36	4.0
Benzo[k]fluoranthene	4.0	U	0.40	4.0
Bis(2-chloroethoxy)methane	4.0	U	0.31	4.0
Bis(2-chloroethyl)ether	4.0	U	0.29	4.0
Bis(2-ethylhexyl) phthalate	4.0	U	0.54	4.0
Butyl benzyl phthalate	4.0	U	0.35	4.0
Caprolactam	4.0	U	0.92	4.0
Carbazole	4.0	U	0.33	4.0
Chrysene	4.0	U	0.25	4.0
Di-n-butyl phthalate	4.0	U	0.35	4.0
Di-n-octyl phthalate	4.0	U	0.38	4.0
Dibenz(a,h)anthracene	4.0	U	0.38	4.0
Dibenzofuran	4.0	U	0.43	4.0

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-3**

Lab Sample ID: 220-11066-16
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 220-34488		Instrument ID:	MSZ
Preparation:	3510C	Prep Batch: 220-34329		Lab File ID:	Z14579.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	12/21/2009 1633			Final Weight/Volume:	1 mL
Date Prepared:	12/16/2009 1010			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Diethyl phthalate	4.0	U	0.43	4.0
Dimethyl phthalate	4.0	U	0.38	4.0
Fluoranthene	4.0	U	0.31	4.0
Fluorene	4.0	U	0.26	4.0
Hexachlorobenzene	4.0	U	0.33	4.0
Hexachlorobutadiene	4.0	U	0.20	4.0
Hexachlorocyclopentadiene	4.0	U	0.35	4.0
Hexachloroethane	4.0	U	0.37	4.0
Indeno[1,2,3-cd]pyrene	4.0	U	0.28	4.0
Isophorone	4.0	U	0.31	4.0
N-Nitrosodi-n-propylamine	4.0	U	0.33	4.0
N-Nitrosodiphenylamine	4.0	U	0.33	4.0
Naphthalene	4.0	U	0.30	4.0
Nitrobenzene	4.0	U	0.28	4.0
Pentachlorophenol	25	U	0.31	25
Phenanthrene	4.0	U	0.28	4.0
Phenol	4.0	U	0.19	4.0
Pyrene	4.0	U	0.33	4.0
2,2'-oxybis[1-chloropropane]	4.0	U	0.25	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	68		36 - 120
2-Fluorobiphenyl	62		39 - 120
2-Fluorophenol	36		13 - 120
Nitrobenzene-d5	62		40 - 120
Phenol-d5	24		10 - 120
Terphenyl-d14	89		10 - 120

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-E(4')**

Lab Sample ID: 220-11066-1
Client Matrix: Solid
% Moisture: 18.9
Date Sampled: 12/14/2009 1005
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/22/2009 1839
Date Prepared: 12/21/2009 1058
Analysis Batch: 220-34591
Prep Batch: 220-34475
Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.18 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.15	J	0.10	0.52
Aluminum		10300		5.2	26.1
Arsenic		10.1		0.10	0.52
Barium		66.4		0.16	0.52
Beryllium		0.53		0.16	0.52
Calcium		49100		15.7	52.2
Cadmium		0.31	J	0.10	0.52
Cobalt		9.6		0.10	0.52
Chromium		14.7		0.21	1.0
Copper		49.0		0.10	1.0
Iron		18700		8.4	26.1
Potassium		1040		5.2	52.2
Magnesium		6810		5.2	52.2
Manganese		384		0.21	1.3
Sodium		258		17.2	52.2
Nickel		18.6		0.10	0.52
Lead		146		0.10	0.52
Antimony		0.30	J	0.21	0.84
Selenium		0.79	J	0.31	1.0
Thallium		0.73	U	0.21	0.73
Vanadium		20.3		0.10	0.52
Zinc		167		0.52	5.2

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/22/2009 1056
Date Prepared: 12/21/2009 0959
Analysis Batch: 220-34534
Prep Batch: 220-34466
Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.0048	0.061

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-2-W(7')**

Lab Sample ID: 220-11066-2
Client Matrix: Solid
% Moisture: 13.0

Date Sampled: 12/14/2009 1215
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/22/2009 1843
Date Prepared: 12/21/2009 1058

Analysis Batch: 220-34591
Prep Batch: 220-34475

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.08 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		2.0		0.11	0.53
Aluminum		3730		5.3	26.6
Arsenic		8.2		0.11	0.53
Barium		83.3		0.16	0.53
Beryllium		0.21	J	0.16	0.53
Calcium		18300		16.0	53.2
Cadmium		0.99		0.11	0.53
Cobalt		3.2		0.11	0.53
Chromium		22.9		0.21	1.1
Copper		85.3		0.11	1.1
Iron		13600		8.5	26.6
Potassium		541		5.3	53.2
Magnesium		2550		5.3	53.2
Manganese		203		0.21	1.3
Sodium		193		17.6	53.2
Nickel		13.5		0.11	0.53
Lead		378		0.11	0.53
Antimony		0.26	J	0.21	0.85
Selenium		0.58	J	0.32	1.1
Thallium		0.74	U	0.21	0.74
Vanadium		11.3		0.11	0.53
Zinc		231		0.53	5.3

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/22/2009 1058
Date Prepared: 12/21/2009 0959

Analysis Batch: 220-34534
Prep Batch: 220-34466

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.90		0.0044	0.055

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-5-N(6')**

Lab Sample ID: 220-11066-3
Client Matrix: Solid
% Moisture: 13.1

Date Sampled: 12/14/2009 1235
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/22/2009 1846
Date Prepared: 12/21/2009 1058

Analysis Batch: 220-34591
Prep Batch: 220-34475

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.29 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.45	U	0.089	0.45
Aluminum		12600		4.5	22.3
Arsenic		4.3		0.089	0.45
Barium		74.6		0.13	0.45
Beryllium		0.63		0.13	0.45
Calcium		3780		13.4	44.6
Cadmium		0.45	U	0.089	0.45
Cobalt		9.1		0.089	0.45
Chromium		21.4		0.18	0.89
Copper		19.9		0.089	0.89
Iron		18900		7.1	22.3
Potassium		2090		4.5	44.6
Magnesium		4700		4.5	44.6
Manganese		401		0.18	1.1
Sodium		137		14.7	44.6
Nickel		27.3		0.089	0.45
Lead		57.0		0.089	0.45
Antimony		0.71	U	0.18	0.71
Selenium		1.4		0.27	0.89
Thallium		0.62	U	0.18	0.62
Vanadium		28.0		0.089	0.45
Zinc		62.9		0.45	4.5

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/22/2009 1059
Date Prepared: 12/21/2009 0959

Analysis Batch: 220-34534
Prep Batch: 220-34466

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.14		0.0046	0.058

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-N(5')**

Lab Sample ID: 220-11066-4 | Date Sampled: 12/14/2009 1245
Client Matrix: Solid | % Moisture: 12.2 | Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34591		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34475		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Date Analyzed:	12/22/2009 1850			Final Weight/Volume:	1000 mL
Date Prepared:	12/21/2009 1058				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.52	U	0.10	0.52
Aluminum		8860		5.2	25.9
Arsenic		4.3		0.10	0.52
Barium		49.5		0.16	0.52
Beryllium		0.40	J	0.16	0.52
Calcium		2330		15.5	51.8
Cadmium		0.52	U	0.10	0.52
Cobalt		8.0		0.10	0.52
Chromium		14.4		0.21	1.0
Copper		16.8		0.10	1.0
Iron		14800		8.3	25.9
Potassium		1140		5.2	51.8
Magnesium		2840		5.2	51.8
Manganese		386		0.21	1.3
Sodium		87.5		17.1	51.8
Nickel		19.5		0.10	0.52
Lead		59.3		0.10	0.52
Antimony		0.83	U	0.21	0.83
Selenium		1.4		0.31	1.0
Thallium		0.72	U	0.21	0.72
Vanadium		20.0		0.10	0.52
Zinc		49.7		0.52	5.2

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34534		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34466		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Date Analyzed:	12/22/2009 1100			Final Weight/Volume:	50 mL
Date Prepared:	12/21/2009 0959				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.035	J	0.0046	0.057

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-5-10-S(2')**

Lab Sample ID: 220-11066-5
Client Matrix: Solid
% Moisture: 9.0

Date Sampled: 12/14/2009 1415
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34591		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34475		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.21 g
Date Analyzed:	12/22/2009 1853			Final Weight/Volume:	1000 mL
Date Prepared:	12/21/2009 1058				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.26	J	0.091	0.45
Aluminum		6880		4.5	22.7
Arsenic		6.5		0.091	0.45
Barium		71.7		0.14	0.45
Beryllium		0.35	J	0.14	0.45
Calcium		42300		13.6	45.4
Cadmium		2.4		0.091	0.45
Cobalt		4.9		0.091	0.45
Chromium		52.8		0.18	0.91
Copper		74.7		0.091	0.91
Iron		21300		7.3	22.7
Potassium		822		4.5	45.4
Magnesium		4410		4.5	45.4
Manganese		350		0.18	1.1
Sodium		234		15.0	45.4
Nickel		53.4		0.091	0.45
Lead		2040		0.091	0.45
Antimony		0.62	J	0.18	0.73
Selenium		0.78	J	0.27	0.91
Thallium		0.64	U	0.18	0.64
Vanadium		20.1		0.091	0.45
Zinc		543		0.45	4.5

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34389		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34334		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	12/17/2009 1407			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2009 1104				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.23		0.0041	0.051

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9')**

Lab Sample ID: 220-11066-6
Client Matrix: Solid
% Moisture: 15.4
Date Sampled: 12/15/2009 0910
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34591		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34475		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.40 g
Date Analyzed:	12/22/2009 1857			Final Weight/Volume:	1000 mL
Date Prepared:	12/21/2009 1058				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.42	U	0.084	0.42
Aluminum		4470		4.2	21.1
Arsenic		3.2		0.084	0.42
Barium		25.1		0.13	0.42
Beryllium		0.18	J	0.13	0.42
Calcium		14500		12.7	42.2
Cadmium		0.42	U	0.084	0.42
Cobalt		3.2		0.084	0.42
Chromium		7.2		0.17	0.84
Copper		6.9		0.084	0.84
Iron		8060		6.8	21.1
Potassium		724		4.2	42.2
Magnesium		3540		4.2	42.2
Manganese		160		0.17	1.1
Sodium		211		13.9	42.2
Nickel		9.7		0.084	0.42
Lead		12.8		0.084	0.42
Antimony		0.68	U	0.17	0.68
Selenium		0.62	J	0.25	0.84
Thallium		0.59	U	0.17	0.59
Vanadium		9.2		0.084	0.42
Zinc		22.7		0.42	4.2

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34389		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34334		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	12/17/2009 1408			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2009 1104				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.050	J	0.0046	0.057

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-1-30-E(9') F.D.**

Lab Sample ID: 220-11066-7 | Date Sampled: 12/15/2009 0910
Client Matrix: Solid | % Moisture: 10.8 | Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34591		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34475		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.27 g
Date Analyzed:	12/22/2009 1900			Final Weight/Volume:	1000 mL
Date Prepared:	12/21/2009 1058				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.44	U	0.088	0.44
Aluminum		4450		4.4	22.1
Arsenic		3.4		0.088	0.44
Barium		29.8		0.13	0.44
Beryllium		0.16	J	0.13	0.44
Calcium		18500		13.2	44.2
Cadmium		0.44	U	0.088	0.44
Cobalt		3.0		0.088	0.44
Chromium		7.0		0.18	0.88
Copper		7.1		0.088	0.88
Iron		7320		7.1	22.1
Potassium		790		4.4	44.2
Magnesium		3700		4.4	44.2
Manganese		154		0.18	1.1
Sodium		231		14.6	44.2
Nickel		8.4		0.088	0.44
Lead		12.9		0.088	0.44
Antimony		0.71	U	0.18	0.71
Selenium		0.55	J	0.26	0.88
Thallium		0.62	U	0.18	0.62
Vanadium		9.3		0.088	0.44
Zinc		26.1		0.44	4.4

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34389		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34334		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	12/17/2009 1410			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2009 1104				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.062		0.0042	0.053

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4')**

Lab Sample ID: 220-11066-8
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 12/15/2009 1120
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34591		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34475		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.24 g
Date Analyzed:	12/22/2009 1915			Final Weight/Volume:	1000 mL
Date Prepared:	12/21/2009 1058				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.31	J	0.10	0.51
Aluminum		8680		5.1	25.3
Arsenic		449		0.10	0.51
Barium		230		0.15	0.51
Beryllium		1.4		0.15	0.51
Calcium		34200		15.2	50.6
Cadmium		1.5		0.10	0.51
Cobalt		9.7		0.10	0.51
Chromium		30.0		0.20	1.0
Copper		197		0.10	1.0
Iron		42800		8.1	25.3
Potassium		1430		5.1	50.6
Magnesium		6940		5.1	50.6
Manganese		297		0.20	1.3
Sodium		925		16.7	50.6
Nickel		53.7		0.10	0.51
Lead		312		0.10	0.51
Antimony		1.7		0.20	0.81
Selenium		8.6		0.30	1.0
Thallium		2.0		0.20	0.71
Vanadium		29.7		0.10	0.51
Zinc		612		0.51	5.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34389		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34334		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Date Analyzed:	12/17/2009 1411			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2009 1104				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.7		0.0050	0.063

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-E(4') F.D.**

Lab Sample ID: 220-11066-9
Client Matrix: Solid
% Moisture: 23.4

Date Sampled: 12/15/2009 1120
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34591		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34525		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	2.07 g
Date Analyzed:	12/22/2009 1614			Final Weight/Volume:	1000 mL
Date Prepared:	12/22/2009 0938				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.12	J	0.063	0.32
Aluminum		2690		3.2	15.8
Arsenic		106		0.063	0.32
Barium		251		0.095	0.32
Beryllium		0.39		0.095	0.32
Calcium		12500		9.5	31.5
Cadmium		0.53		0.063	0.32
Cobalt		2.6		0.063	0.32
Chromium		9.4		0.13	0.63
Copper		59.9		0.063	0.63
Iron		13800		5.0	15.8
Potassium		394		3.2	31.5
Magnesium		2640		3.2	31.5
Manganese		81.2		0.13	0.79
Sodium		297		10.4	31.5
Nickel		13.3		0.063	0.32
Lead		1670		0.063	0.32
Antimony		0.27	J	0.13	0.50
Selenium		2.9		0.19	0.63
Thallium		0.58		0.13	0.44
Vanadium		10.4		0.063	0.32
Zinc		144		0.32	3.2

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34389		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34334		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	12/17/2009 1421			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2009 1104				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.3		0.026	0.32

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10')**

Lab Sample ID: 220-11066-10
Client Matrix: Solid
% Moisture: 23.6

Date Sampled: 12/15/2009 1200
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34591		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34525		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	2.02 g
Date Analyzed:	12/22/2009 1618			Final Weight/Volume:	1000 mL
Date Prepared:	12/22/2009 0938				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.32	U	0.065	0.32
Aluminum		4210		3.2	16.2
Arsenic		3.1		0.065	0.32
Barium		19.8		0.097	0.32
Beryllium		0.28	J	0.097	0.32
Calcium		2010		9.7	32.4
Cadmium		0.098	J	0.065	0.32
Cobalt		3.8		0.065	0.32
Chromium		8.4		0.13	0.65
Copper		11.5		0.065	0.65
Iron		9200		5.2	16.2
Potassium		775		3.2	32.4
Magnesium		1990		3.2	32.4
Manganese		164		0.13	0.81
Sodium		1280		10.7	32.4
Nickel		8.3		0.065	0.32
Lead		37.0		0.065	0.32
Antimony		0.15	J	0.13	0.52
Selenium		0.49	J	0.19	0.65
Thallium		0.45	U	0.13	0.45
Vanadium		12.4		0.065	0.32
Zinc		43.6		0.32	3.2

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34389		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34334		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	12/17/2009 1416			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2009 1104				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.050	J	0.0050	0.062

Client: Shaw Environmental & Infrastructure, Inc | Job Number: 220-11066-1

Client Sample ID: **PBL-2-30-N(10') F.D.**

Lab Sample ID: 220-11066-11 | Date Sampled: 12/15/2009 1200
Client Matrix: Solid | % Moisture: 19.8 | Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34591		Instrument ID:	ICPMS
Preparation:	3050B	Prep Batch: 220-34525		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	2.05 g
Date Analyzed:	12/22/2009 1621			Final Weight/Volume:	1000 mL
Date Prepared:	12/22/2009 0938				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.30	U	0.061	0.30
Aluminum		5210		3.0	15.2
Arsenic		3.4		0.061	0.30
Barium		30.6		0.091	0.30
Beryllium		0.33		0.091	0.30
Calcium		3100		9.1	30.4
Cadmium		0.16	J	0.061	0.30
Cobalt		5.0		0.061	0.30
Chromium		11.7		0.12	0.61
Copper		15.9		0.061	0.61
Iron		12900		4.9	15.2
Potassium		998		3.0	30.4
Magnesium		2780		3.0	30.4
Manganese		198		0.12	0.76
Sodium		1610		10.0	30.4
Nickel		11.6		0.061	0.30
Lead		22.2		0.061	0.30
Antimony		0.49	U	0.12	0.49
Selenium		0.90		0.18	0.61
Thallium		0.43	U	0.12	0.43
Vanadium		17.1		0.061	0.30
Zinc		66.6		0.30	3.0

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 220-34389		Instrument ID:	MERC1
Preparation:	7471A	Prep Batch: 220-34334		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	12/17/2009 1417			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2009 1104				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.047	J	0.0046	0.058

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-2-60-N(11')**

Lab Sample ID: 220-11066-12
Client Matrix: Solid
% Moisture: 25.9
Date Sampled: 12/15/2009 1215
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/22/2009 1625
Date Prepared: 12/22/2009 0938
Analysis Batch: 220-34591
Prep Batch: 220-34525
Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 2.00 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.34	U	0.067	0.34
Aluminum		5700		3.4	16.9
Arsenic		3.8		0.067	0.34
Barium		13.9		0.10	0.34
Beryllium		0.24	J	0.10	0.34
Calcium		2870		10.1	33.7
Cadmium		0.34	U	0.067	0.34
Cobalt		4.4		0.067	0.34
Chromium		9.9		0.13	0.67
Copper		8.0		0.067	0.67
Iron		11300		5.4	16.9
Potassium		1070		3.4	33.7
Magnesium		2800		3.4	33.7
Manganese		156		0.13	0.84
Sodium		615		11.1	33.7
Nickel		10.1		0.067	0.34
Lead		9.9		0.067	0.34
Antimony		0.54	U	0.13	0.54
Selenium		0.69		0.20	0.67
Thallium		0.47	U	0.13	0.47
Vanadium		14.6		0.067	0.34
Zinc		36.4		0.34	3.4

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/17/2009 1418
Date Prepared: 12/16/2009 1104
Analysis Batch: 220-34389
Prep Batch: 220-34334
Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.65 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.048	J	0.0050	0.062

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **PBL-8-60-S(12')**

Lab Sample ID: 220-11066-13
Client Matrix: Solid
% Moisture: 18.2

Date Sampled: 12/15/2009 1230
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/22/2009 1629
Date Prepared: 12/22/2009 0938

Analysis Batch: 220-34591
Prep Batch: 220-34525

Instrument ID: ICPMS
Lab File ID: N/A
Initial Weight/Volume: 2.04 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.30	U	0.060	0.30
Aluminum		8650		3.0	15.0
Arsenic		63.7		0.060	0.30
Barium		89.3		0.090	0.30
Beryllium		0.41		0.090	0.30
Calcium		20700		9.0	30.0
Cadmium		0.41		0.060	0.30
Cobalt		2.7		0.060	0.30
Chromium		11.2		0.12	0.60
Copper		64.7		0.060	0.60
Iron		11200		4.8	15.0
Potassium		1180		3.0	30.0
Magnesium		2730		3.0	30.0
Manganese		130		0.12	0.75
Sodium		1100		9.9	30.0
Nickel		11.9		0.060	0.30
Lead		123		0.060	0.30
Antimony		0.13	J	0.12	0.48
Selenium		1.7		0.18	0.60
Thallium		0.46		0.12	0.42
Vanadium		19.6		0.060	0.30
Zinc		139		0.30	3.0

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/17/2009 1419
Date Prepared: 12/16/2009 1104

Analysis Batch: 220-34389
Prep Batch: 220-34334

Instrument ID: MERC1
Lab File ID: N/A
Initial Weight/Volume: 0.65 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.49		0.0045	0.056

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-1**

Lab Sample ID: 220-11066-14
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34609		Instrument ID:	ICPMS
Preparation:	3010A	Prep Batch: 220-34494		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	12/23/2009 1213			Final Weight/Volume:	500 mL
Date Prepared:	12/21/2009 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.50	2.5
Aluminum	125	U	25.0	125
Arsenic	2.5	U	0.50	2.5
Barium	2.5	U	0.50	2.5
Beryllium	2.5	U	0.50	2.5
Calcium	54.6	J	50.0	250
Cadmium	2.5	U	0.50	2.5
Cobalt	2.5	U	0.50	2.5
Chromium	1.8	J	1.0	5.0
Copper	5.0	U	0.50	5.0
Iron	35.7	J	25.0	125
Potassium	69.7	J	25.0	250
Magnesium	250	U	25.0	250
Manganese	6.0	U	1.0	6.0
Sodium	78.4	J	50.0	250
Nickel	2.5	U	0.50	2.5
Lead	0.53	J	0.50	2.5
Antimony	4.0	U	1.0	4.0
Selenium	5.0	U	1.0	5.0
Thallium	3.5	U	1.0	3.5
Vanadium	0.82	J	0.50	2.5
Zinc	25.0	U	2.5	25.0

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 220-34405		Instrument ID:	MERC1
Preparation:	7470A	Prep Batch: 220-34373		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	25 mL
Date Analyzed:	12/17/2009 1636			Final Weight/Volume:	50 mL
Date Prepared:	12/17/2009 1058				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.060	0.20

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-2**

Lab Sample ID: 220-11066-15
Client Matrix: Water

Date Sampled: 12/15/2009 1425
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34609		Instrument ID:	ICPMS
Preparation:	3010A	Prep Batch: 220-34494		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	12/23/2009 1216			Final Weight/Volume:	500 mL
Date Prepared:	12/21/2009 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.50	2.5
Aluminum	125	U	25.0	125
Arsenic	2.5	U	0.50	2.5
Barium	2.5	U	0.50	2.5
Beryllium	2.5	U	0.50	2.5
Calcium	250	U	50.0	250
Cadmium	2.5	U	0.50	2.5
Cobalt	2.5	U	0.50	2.5
Chromium	2.0	J	1.0	5.0
Copper	5.0	U	0.50	5.0
Iron	28.8	J	25.0	125
Potassium	47.5	J	25.0	250
Magnesium	250	U	25.0	250
Manganese	6.0	U	1.0	6.0
Sodium	53.5	J	50.0	250
Nickel	2.5	U	0.50	2.5
Lead	2.5	U	0.50	2.5
Antimony	4.0	U	1.0	4.0
Selenium	5.0	U	1.0	5.0
Thallium	3.5	U	1.0	3.5
Vanadium	0.83	J	0.50	2.5
Zinc	25.0	U	2.5	25.0

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 220-34405		Instrument ID:	MERC1
Preparation:	7470A	Prep Batch: 220-34373		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	25 mL
Date Analyzed:	12/17/2009 1636			Final Weight/Volume:	50 mL
Date Prepared:	12/17/2009 1058				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.060	0.20

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Client Sample ID: **FB-3**

Lab Sample ID: 220-11066-16
Client Matrix: Water

Date Sampled: 12/15/2009 1500
Date Received: 12/15/2009 1900

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 220-34609		Instrument ID:	ICPMS
Preparation:	3010A	Prep Batch: 220-34494		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	12/23/2009 1220			Final Weight/Volume:	500 mL
Date Prepared:	12/21/2009 1135				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.50	2.5
Aluminum	125	U	25.0	125
Arsenic	2.5	U	0.50	2.5
Barium	2.5	U	0.50	2.5
Beryllium	2.5	U	0.50	2.5
Calcium	250	U	50.0	250
Cadmium	2.5	U	0.50	2.5
Cobalt	2.5	U	0.50	2.5
Chromium	2.2	J	1.0	5.0
Copper	2.5	J	0.50	5.0
Iron	125	U	25.0	125
Potassium	45.1	J	25.0	250
Magnesium	250	U	25.0	250
Manganese	6.0	U	1.0	6.0
Sodium	250	U	50.0	250
Nickel	2.5	U	0.50	2.5
Lead	2.5	U	0.50	2.5
Antimony	4.0	U	1.0	4.0
Selenium	5.0	U	1.0	5.0
Thallium	3.5	U	1.0	3.5
Vanadium	0.90	J	0.50	2.5
Zinc	25.0	U	2.5	25.0

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 220-34405		Instrument ID:	MERC1
Preparation:	7470A	Prep Batch: 220-34373		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	25 mL
Date Analyzed:	12/17/2009 1637			Final Weight/Volume:	50 mL
Date Prepared:	12/17/2009 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.060	0.20

General Chemistry

Client Sample ID: **PBL-5-10-E(4')**

Lab Sample ID: 220-11066-1 Date Sampled: 12/14/2009 1005

Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	81.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-5-2-W(7')**

Lab Sample ID: 220-11066-2 Date Sampled: 12/14/2009 1215
Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	87.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-5-5-N(6')**

Lab Sample ID: 220-11066-3 Date Sampled: 12/14/2009 1235
Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	86.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-5-10-N(5')**

Lab Sample ID: 220-11066-4 Date Sampled: 12/14/2009 1245

Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	87.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-5-10-S(2')**

Lab Sample ID: 220-11066-5 Date Sampled: 12/14/2009 1415
Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	91.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-1-30-E(9')**

Lab Sample ID: 220-11066-6 Date Sampled: 12/15/2009 0910

Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	84.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-1-30-E(9') F.D.**

Lab Sample ID: 220-11066-7 Date Sampled: 12/15/2009 0910

Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	10.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	89.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-60-E(4')**

Lab Sample ID: 220-11066-8 Date Sampled: 12/15/2009 1120

Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	79.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-60-E(4') F.D.**

Lab Sample ID: 220-11066-9 Date Sampled: 12/15/2009 1120

Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	76.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-30-N(10')**

Lab Sample ID: 220-11066-10 Date Sampled: 12/15/2009 1200

Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	76.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-30-N(10') F.D.**

Lab Sample ID: 220-11066-11 Date Sampled: 12/15/2009 1200

Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	80.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-2-60-N(11')**

Lab Sample ID: 220-11066-12 Date Sampled: 12/15/2009 1215
Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	25.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	74.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

General Chemistry

Client Sample ID: **PBL-8-60-S(12')**

Lab Sample ID: 220-11066-13 Date Sampled: 12/15/2009 1230
Client Matrix: Solid Date Received: 12/15/2009 1900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N
Percent Solids	81.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 220-34360	Date Analyzed: 12/16/2009 1750						DryWt Corrected: N

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
220-11066-6	PBL-1-30-E(9')	76	88	68	56
220-11066-7	PBL-1-30-E(9') F.D.	73	86	80	65
220-11066-8	PBL-2-60-E(4')	41*	37*	43*	33*
220-11066-9	PBL-2-60-E(4') F.D.	33*	30*	35*	28*
220-11066-10	PBL-2-30-N(10')	75	79	64	88
220-11066-11	PBL-2-30-N(10') F.D.	75	78	72	108
220-11066-12	PBL-2-60-N(11')	85	80	81	65
MB 220-34649/3		95	98	95	108
MB 220-34652/3		93	95	95	103
LCS 220-34649/2		87	93	91	91
LCS 220-34652/2		86	93	88	90

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	59-123
DCA = 1,2-Dichloroethane-d4 (Surr)	59-132
TOL = Toluene-d8 (Surr)	50-118
BFB = 4-Bromofluorobenzene	34-124

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
220-11066-14	FB-1	95	93	84	89
220-11066-15	FB-2	96	95	85	91
220-11066-16	FB-3	96	96	84	89
MB 220-34565/3		97	102	84	90
LCS 220-34565/16		97	101	84	90

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	68-132
DCA = 1,2-Dichloroethane-d4 (Surr)	65-136
TOL = Toluene-d8 (Surr)	63-127
BFB = 4-Bromofluorobenzene	51-142

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
220-11066-1	PBL-5-10-E(4')	49	52	52	54	52	81
220-11066-2	PBL-5-2-W(7')	54	56	57	56	61	87
220-11066-3	PBL-5-5-N(6')	55	58	58	56	57	71
220-11066-4	PBL-5-10-N(5')	49	52	53	51	53	66
220-11066-5	PBL-5-10-S(2')	37	65	88	84	30*	102
220-11066-6	PBL-1-30-E(9')	55	58	56	71	73	95
220-11066-7	PBL-1-30-E(9') F.D.	59	62	63	74	65	78
220-11066-8	PBL-2-60-E(4')	55	55	57	56	60	63
220-11066-9	PBL-2-60-E(4') F.D.	51	52	55	54	55	59
220-11066-10	PBL-2-30-N(10')	49	49	51	53	59	55
220-11066-11	PBL-2-30-N(10') F.D.	67	67	69	69	74	76
220-11066-12	PBL-2-60-N(11')	68	68	69	69	75	80
220-11066-13	PBL-8-60-S(12')	59	60	61	61	56	75
MB 220-34351/1-A		67	67	69	65	67	65
MB 220-34355/1-A		68	69	70	66	70	67
MB 220-34526/1-A		63	63	64	64	65	61
LCS 220-34351/2-A		70	69	72	69	76	71
LCS 220-34355/2-A		70	70	72	68	73	69
LCS 220-34526/2-A		64	64	65	65	70	69
220-11066-12 MS	PBL-2-60-N(11') MS	63	62	65	64	74	79
220-11066-12 MSD	PBL-2-60-N(11') MSD	58	59	61	62	73	79

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	34-120
PHL = Phenol-d5	36-120
NBZ = Nitrobenzene-d5	38-120
FBP = 2-Fluorobiphenyl	41-120
TBP = 2,4,6-Tribromophenol	37-120
TPH = Terphenyl-d14	32-125

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
220-11066-14	FB-1	33	23	62	63	69	85
220-11066-15	FB-2	34	23	63	63	68	90
220-11066-16	FB-3	36	24	62	62	68	89
MB 220-34329/1-A		22	15	44	45	57	79
LCS 220-34329/2-A		27	19	50	54	70	72

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	13-120
PHL = Phenol-d5	10-120
NBZ = Nitrobenzene-d5	40-120
FBP = 2-Fluorobiphenyl	39-120
TBP = 2,4,6-Tribromophenol	36-120
TPH = Terphenyl-d14	10-120

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34565

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-34565/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/21/2009 1309
Date Prepared: 12/21/2009 1309

Analysis Batch: 220-34565
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V8902.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	5.0	U	1.0	5.0
Chloromethane	5.0	U	1.1	5.0
Vinyl chloride	5.0	U	0.99	5.0
Bromomethane	5.0	U	2.1	5.0
Chloroethane	5.0	U	1.1	5.0
Trichlorofluoromethane	5.0	U	1.1	5.0
1,1-Dichloroethene	5.0	U	0.83	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	0.97	5.0
Acetone	10	U	1.0	10
Carbon disulfide	5.0	U	0.90	5.0
Methyl acetate	5.0	U	0.48	5.0
Methylene Chloride	5.0	U	0.78	5.0
trans-1,2-Dichloroethene	5.0	U	0.76	5.0
Methyl tert-butyl ether	5.0	U	0.17	5.0
1,1-Dichloroethane	5.0	U	1.0	5.0
cis-1,2-Dichloroethene	5.0	U	0.99	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Chloroform	5.0	U	0.67	5.0
1,1,1-Trichloroethane	5.0	U	0.69	5.0
Cyclohexane	5.0	U	0.70	5.0
Carbon tetrachloride	5.0	U	1.1	5.0
Benzene	5.0	U	0.74	5.0
1,2-Dichloroethane	5.0	U	0.72	5.0
Trichloroethene	5.0	U	0.62	5.0
Methylcyclohexane	5.0	U	0.98	5.0
1,2-Dichloropropane	5.0	U	0.71	5.0
Bromodichloromethane	5.0	U	0.48	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
methyl isobutyl ketone	10	U	0.38	10
Toluene	5.0	U	0.72	5.0
trans-1,3-Dichloropropene	5.0	U	0.57	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Tetrachloroethene	5.0	U	0.81	5.0
2-Hexanone	10	U	1.1	10
Dibromochloromethane	5.0	U	0.55	5.0
1,2-Dibromoethane	5.0	U	0.52	5.0
Chlorobenzene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0
Styrene	5.0	U	0.64	5.0
Bromoform	5.0	U	0.46	5.0

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34565

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-34565/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/21/2009 1309
Date Prepared: 12/21/2009 1309

Analysis Batch: 220-34565
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V8902.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Isopropylbenzene	5.0	U	0.85	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.81	5.0
1,3-Dichlorobenzene	5.0	U	0.14	5.0
1,4-Dichlorobenzene	5.0	U	0.59	5.0
1,2-Dichlorobenzene	5.0	U	0.22	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	1.2	5.0
1,2,4-Trichlorobenzene	5.0	U	0.72	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	65 - 136
4-Bromofluorobenzene	90	51 - 142
Dibromofluoromethane	97	68 - 132
Toluene-d8 (Surr)	84	63 - 127

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34565

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-34565/16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/21/2009 1148
Date Prepared: 12/21/2009 1148

Analysis Batch: 220-34565
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V8899.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloromethane	10.0	9.37	94	33 - 150	
Vinyl chloride	10.0	10.4	104	61 - 150	
Bromomethane	10.0	10.1	101	47 - 150	
Chloroethane	10.0	10.9	109	49 - 150	
1,1-Dichloroethene	10.0	11.7	117	65 - 142	
Acetone	10.0	13.6	136	41 - 150	
Carbon disulfide	10.0	10.6	106	55 - 150	
Methylene Chloride	10.0	10.5	105	56 - 138	
trans-1,2-Dichloroethene	10.0	9.94	99	58 - 120	
1,1-Dichloroethane	10.0	10.2	102	75 - 130	
cis-1,2-Dichloroethene	10.0	9.76	98	65 - 120	
Methyl Ethyl Ketone	10.0	12.9	129	42 - 150	
Chloroform	10.0	10.6	106	77 - 126	
1,1,1-Trichloroethane	10.0	10.4	104	73 - 135	
Carbon tetrachloride	10.0	10.5	105	69 - 135	
Benzene	10.0	9.81	98	66 - 131	
1,2-Dichloroethane	10.0	10.6	106	73 - 127	
Trichloroethene	10.0	9.78	98	60 - 122	
1,2-Dichloropropane	10.0	9.89	99	69 - 129	
Bromodichloromethane	10.0	10.0	100	78 - 120	
methyl isobutyl ketone	10.0	11.2	112	70 - 122	
Toluene	10.0	8.79	88	66 - 120	
trans-1,3-Dichloropropene	10.0	10.6	106	73 - 120	
1,1,2-Trichloroethane	10.0	10.4	104	76 - 125	
Tetrachloroethene	10.0	8.53	85	50 - 120	
Dibromochloromethane	10.0	9.54	95	75 - 120	
Chlorobenzene	10.0	9.05	91	68 - 120	
Ethylbenzene	10.0	9.08	91	62 - 120	
Xylenes, Total	30.0	26.7	89	58 - 120	
Styrene	10.0	9.01	90	47 - 120	
Bromoform	10.0	10.7	107	66 - 120	
1,1,2,2-Tetrachloroethane	10.0	10.8	108	75 - 124	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	65 - 136
4-Bromofluorobenzene	90	51 - 142
Dibromofluoromethane	97	68 - 132
Toluene-d8 (Surr)	84	63 - 127

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

Method Blank - Batch: 220-34649

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-34649/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2009 1654
Date Prepared: 12/23/2009 1654

Analysis Batch: 220-34649
Prep Batch: N/A
Units: ug/Kg

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: O5067.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	5.0	U	0.35	5.0
Chloromethane	5.0	U	0.78	5.0
Vinyl chloride	5.0	U	0.23	5.0
Bromomethane	5.0	U	2.1	5.0
Chloroethane	5.0	U	0.98	5.0
Trichlorofluoromethane	5.0	U	0.15	5.0
1,1-Dichloroethene	5.0	U	0.58	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	0.79	5.0
Acetone	20	U	2.2	20
Carbon disulfide	5.0	U	0.41	5.0
Methyl acetate	5.0	U	0.44	5.0
Methylene Chloride	20	U	1.1	20
trans-1,2-Dichloroethene	5.0	U	0.39	5.0
Methyl tert-butyl ether	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.30	5.0
cis-1,2-Dichloroethene	5.0	U	0.37	5.0
Methyl Ethyl Ketone	10	U	1.6	10
Chloroform	5.0	U	0.34	5.0
1,1,1-Trichloroethane	5.0	U	0.53	5.0
Cyclohexane	1.46	J	0.69	5.0
Carbon tetrachloride	5.0	U	0.95	5.0
Benzene	5.0	U	0.57	5.0
1,2-Dichloroethane	5.0	U	0.58	5.0
Trichloroethene	5.0	U	0.81	5.0
Methylcyclohexane	5.0	U	0.33	5.0
1,2-Dichloropropane	5.0	U	0.67	5.0
Bromodichloromethane	5.0	U	0.30	5.0
cis-1,3-Dichloropropene	5.0	U	0.56	5.0
methyl isobutyl ketone	5.0	U	0.55	5.0
Toluene	0.836	J	0.074	5.0
trans-1,3-Dichloropropene	5.0	U	0.27	5.0
1,1,2-Trichloroethane	5.0	U	0.37	5.0
Tetrachloroethene	5.0	U	0.81	5.0
2-Hexanone	10	U	1.2	10
Dibromochloromethane	5.0	U	0.35	5.0
1,2-Dibromoethane	5.0	U	0.76	5.0
Chlorobenzene	5.0	U	0.59	5.0
Ethylbenzene	5.0	U	0.70	5.0
Xylenes, Total	5.0	U	0.49	5.0
Styrene	5.0	U	0.15	5.0
Bromoform	5.0	U	0.61	5.0

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34649

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-34649/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2009 1654
Date Prepared: 12/23/2009 1654

Analysis Batch: 220-34649
Prep Batch: N/A
Units: ug/Kg

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: O5067.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Isopropylbenzene	5.0	U	0.19	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.52	5.0
1,3-Dichlorobenzene	5.0	U	0.21	5.0
1,4-Dichlorobenzene	5.0	U	0.67	5.0
1,2-Dichlorobenzene	5.0	U	0.24	5.0
1,2-Dibromo-3-Chloropropane	10	U	4.5	10
1,2,4-Trichlorobenzene	5.0	U	0.75	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	59 - 132
4-Bromofluorobenzene	108	34 - 124
Dibromofluoromethane	95	59 - 123
Toluene-d8 (Surr)	95	50 - 118

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34649

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-34649/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2009 1619
Date Prepared: 12/23/2009 1619

Analysis Batch: 220-34649
Prep Batch: N/A
Units: ug/Kg

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: O5066.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloromethane	20.0	25.8	129	69 - 143	
Vinyl chloride	20.0	24.4	122	70 - 137	
Bromomethane	20.0	24.6	123	83 - 150	
Chloroethane	20.0	22.2	111	54 - 150	
1,1-Dichloroethene	20.0	24.7	123	80 - 144	
Acetone	20.0	13.9	69	80 - 150	J *
Carbon disulfide	20.0	22.8	114	80 - 142	
Methylene Chloride	20.0	23.0	115	68 - 147	
trans-1,2-Dichloroethene	20.0	20.7	103	50 - 149	
1,1-Dichloroethane	20.0	20.7	104	78 - 130	
cis-1,2-Dichloroethene	20.0	20.9	105	80 - 122	
Methyl Ethyl Ketone	20.0	22.2	111	80 - 150	
Chloroform	20.0	22.0	110	74 - 142	
1,1,1-Trichloroethane	20.0	20.5	103	80 - 136	
Carbon tetrachloride	20.0	22.7	114	80 - 137	
Benzene	20.0	21.0	105	80 - 133	
1,2-Dichloroethane	20.0	21.0	105	76 - 130	
Trichloroethene	20.0	20.8	104	71 - 129	
1,2-Dichloropropane	20.0	20.2	101	78 - 127	
Bromodichloromethane	20.0	19.9	100	74 - 126	
methyl isobutyl ketone	20.0	21.6	108	74 - 136	
Toluene	20.0	20.9	104	65 - 121	
trans-1,3-Dichloropropene	20.0	20.9	105	61 - 126	
1,1,2-Trichloroethane	20.0	21.4	107	59 - 146	
Tetrachloroethene	20.0	19.8	99	67 - 120	
Dibromochloromethane	20.0	19.9	100	71 - 120	
Chlorobenzene	20.0	21.0	105	73 - 120	
Ethylbenzene	20.0	20.4	102	72 - 120	
Xylenes, Total	60.0	62.5	104	71 - 120	
Styrene	20.0	20.9	104	59 - 120	
Bromoform	20.0	20.8	104	65 - 120	
1,1,2,2-Tetrachloroethane	20.0	21.9	110	76 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	59 - 132
4-Bromofluorobenzene	91	34 - 124
Dibromofluoromethane	87	59 - 123
Toluene-d8 (Surr)	91	50 - 118

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

Method Blank - Batch: 220-34652

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-34652/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/24/2009 0910
Date Prepared: 12/24/2009 0910

Analysis Batch: 220-34652
Prep Batch: N/A
Units: ug/Kg

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: O5095.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	5.0	U	0.35	5.0
Chloromethane	5.0	U	0.78	5.0
Vinyl chloride	5.0	U	0.23	5.0
Bromomethane	5.0	U	2.1	5.0
Chloroethane	5.0	U	0.98	5.0
Trichlorofluoromethane	5.0	U	0.15	5.0
1,1-Dichloroethene	5.0	U	0.58	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	0.79	5.0
Acetone	20	U	2.2	20
Carbon disulfide	5.0	U	0.41	5.0
Methyl acetate	5.0	U	0.44	5.0
Methylene Chloride	1.72	J	1.1	20
trans-1,2-Dichloroethene	5.0	U	0.39	5.0
Methyl tert-butyl ether	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.30	5.0
cis-1,2-Dichloroethene	5.0	U	0.37	5.0
Methyl Ethyl Ketone	10	U	1.6	10
Chloroform	5.0	U	0.34	5.0
1,1,1-Trichloroethane	5.0	U	0.53	5.0
Cyclohexane	5.0	U	0.69	5.0
Carbon tetrachloride	5.0	U	0.95	5.0
Benzene	5.0	U	0.57	5.0
1,2-Dichloroethane	5.0	U	0.58	5.0
Trichloroethene	5.0	U	0.81	5.0
Methylcyclohexane	5.0	U	0.33	5.0
1,2-Dichloropropane	5.0	U	0.67	5.0
Bromodichloromethane	5.0	U	0.30	5.0
cis-1,3-Dichloropropene	5.0	U	0.56	5.0
methyl isobutyl ketone	5.0	U	0.55	5.0
Toluene	0.444	J	0.074	5.0
trans-1,3-Dichloropropene	5.0	U	0.27	5.0
1,1,2-Trichloroethane	5.0	U	0.37	5.0
Tetrachloroethene	5.0	U	0.81	5.0
2-Hexanone	10	U	1.2	10
Dibromochloromethane	5.0	U	0.35	5.0
1,2-Dibromoethane	5.0	U	0.76	5.0
Chlorobenzene	5.0	U	0.59	5.0
Ethylbenzene	5.0	U	0.70	5.0
Xylenes, Total	5.0	U	0.49	5.0
Styrene	5.0	U	0.15	5.0
Bromoform	5.0	U	0.61	5.0

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34652

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-34652/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/24/2009 0910
Date Prepared: 12/24/2009 0910

Analysis Batch: 220-34652
Prep Batch: N/A
Units: ug/Kg

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: O5095.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Isopropylbenzene	5.0	U	0.19	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.52	5.0
1,3-Dichlorobenzene	5.0	U	0.21	5.0
1,4-Dichlorobenzene	5.0	U	0.67	5.0
1,2-Dichlorobenzene	5.0	U	0.24	5.0
1,2-Dibromo-3-Chloropropane	10	U	4.5	10
1,2,4-Trichlorobenzene	5.0	U	0.75	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	59 - 132
4-Bromofluorobenzene	103	34 - 124
Dibromofluoromethane	93	59 - 123
Toluene-d8 (Surr)	95	50 - 118

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34652

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-34652/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/24/2009 0830
Date Prepared: 12/24/2009 0830

Analysis Batch: 220-34652
Prep Batch: N/A
Units: ug/Kg

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: O5094.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloromethane	20.0	23.8	119	69 - 143	
Vinyl chloride	20.0	22.8	114	70 - 137	
Bromomethane	20.0	24.1	120	83 - 150	
Chloroethane	20.0	21.3	106	54 - 150	
1,1-Dichloroethene	20.0	23.7	118	80 - 144	
Acetone	20.0	15.7	79	80 - 150	J *
Carbon disulfide	20.0	21.4	107	80 - 142	
Methylene Chloride	20.0	21.7	109	68 - 147	
trans-1,2-Dichloroethene	20.0	19.8	99	50 - 149	
1,1-Dichloroethane	20.0	20.0	100	78 - 130	
cis-1,2-Dichloroethene	20.0	20.0	100	80 - 122	
Methyl Ethyl Ketone	20.0	18.9	95	80 - 150	
Chloroform	20.0	20.9	105	74 - 142	
1,1,1-Trichloroethane	20.0	19.6	98	80 - 136	
Carbon tetrachloride	20.0	18.3	92	80 - 137	
Benzene	20.0	19.9	99	80 - 133	
1,2-Dichloroethane	20.0	19.9	100	76 - 130	
Trichloroethene	20.0	19.2	96	71 - 129	
1,2-Dichloropropane	20.0	19.4	97	78 - 127	
Bromodichloromethane	20.0	17.9	90	74 - 126	
methyl isobutyl ketone	20.0	20.0	100	74 - 136	
Toluene	20.0	19.4	97	65 - 121	
trans-1,3-Dichloropropene	20.0	20.2	101	61 - 126	
1,1,2-Trichloroethane	20.0	20.0	100	59 - 146	
Tetrachloroethene	20.0	18.7	93	67 - 120	
Dibromochloromethane	20.0	18.7	94	71 - 120	
Chlorobenzene	20.0	19.4	97	73 - 120	
Ethylbenzene	20.0	19.6	98	72 - 120	
Xylenes, Total	60.0	57.8	96	71 - 120	
Styrene	20.0	19.5	98	59 - 120	
Bromoform	20.0	18.2	91	65 - 120	
1,1,2,2-Tetrachloroethane	20.0	20.7	103	76 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	59 - 132
4-Bromofluorobenzene	90	34 - 124
Dibromofluoromethane	86	59 - 123
Toluene-d8 (Surr)	88	50 - 118

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34329

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 220-34329/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/21/2009 1053
Date Prepared: 12/16/2009 1010

Analysis Batch: 220-34488
Prep Batch: 220-34329
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Z14567.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	4.0	U	0.37	4.0
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	4.0	U	0.37	4.0
2,4-Dichlorophenol	4.0	U	0.33	4.0
2,4-Dimethylphenol	4.0	U	0.33	4.0
2,4-Dinitrotoluene	4.0	U	0.40	4.0
2,4-Dinitrophenol	25	U	0.43	25
2,6-Dinitrotoluene	4.0	U	0.26	4.0
2-Chloronaphthalene	4.0	U	0.39	4.0
2-Chlorophenol	4.0	U	0.23	4.0
2-Methylnaphthalene	4.0	U	0.27	4.0
2-Methylphenol	4.0	U	0.24	4.0
2-Nitroaniline	4.0	U	0.34	4.0
2-Nitrophenol	4.0	U	0.27	4.0
3,3'-Dichlorobenzidine	4.0	U	0.36	4.0
3-Nitroaniline	4.0	U	0.23	4.0
4,6-Dinitro-2-methylphenol	25	U	1.9	25
4-Bromophenyl phenyl ether	4.0	U	0.44	4.0
4-Chloro-3-methylphenol	5.0	U	0.34	5.0
4-Chloroaniline	4.0	U	0.29	4.0
4-Chlorophenyl phenyl ether	4.0	U	0.35	4.0
4-Methylphenol	4.0	U	0.29	4.0
4-Nitroaniline	4.0	U	0.20	4.0
4-Nitrophenol	10	U	1.4	10
Acenaphthene	4.0	U	0.31	4.0
Acenaphthylene	4.0	U	0.34	4.0
Acetophenone	4.0	U	0.33	4.0
Anthracene	4.0	U	0.29	4.0
Atrazine	4.0	U	0.18	4.0
Benzaldehyde	10	U	0.68	10
Benzo[a]anthracene	4.0	U	0.30	4.0
Benzo[a]pyrene	4.0	U	0.35	4.0
Benzo[b]fluoranthene	4.0	U	0.36	4.0
Benzo[g,h,i]perylene	4.0	U	0.36	4.0
Benzo[k]fluoranthene	4.0	U	0.40	4.0
Bis(2-chloroethoxy)methane	4.0	U	0.31	4.0
Bis(2-chloroethyl)ether	4.0	U	0.29	4.0
Bis(2-ethylhexyl) phthalate	4.0	U	0.54	4.0
Butyl benzyl phthalate	4.0	U	0.35	4.0
Caprolactam	4.0	U	0.92	4.0
Carbazole	4.0	U	0.33	4.0

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34329

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 220-34329/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/21/2009 1053
Date Prepared: 12/16/2009 1010

Analysis Batch: 220-34488
Prep Batch: 220-34329
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Z14567.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Chrysene	4.0	U	0.25	4.0
Di-n-butyl phthalate	4.0	U	0.35	4.0
Di-n-octyl phthalate	4.0	U	0.38	4.0
Dibenz(a,h)anthracene	4.0	U	0.38	4.0
Dibenzofuran	4.0	U	0.43	4.0
Diethyl phthalate	4.0	U	0.43	4.0
Dimethyl phthalate	4.0	U	0.38	4.0
Fluoranthene	4.0	U	0.31	4.0
Fluorene	4.0	U	0.26	4.0
Hexachlorobenzene	4.0	U	0.33	4.0
Hexachlorobutadiene	4.0	U	0.20	4.0
Hexachlorocyclopentadiene	4.0	U	0.35	4.0
Hexachloroethane	4.0	U	0.37	4.0
Indeno[1,2,3-cd]pyrene	4.0	U	0.28	4.0
Isophorone	4.0	U	0.31	4.0
N-Nitrosodi-n-propylamine	4.0	U	0.33	4.0
N-Nitrosodiphenylamine	4.0	U	0.33	4.0
Naphthalene	4.0	U	0.30	4.0
Nitrobenzene	4.0	U	0.28	4.0
Pentachlorophenol	25	U	0.31	25
Phenanthrene	4.0	U	0.28	4.0
Phenol	4.0	U	0.19	4.0
Pyrene	4.0	U	0.33	4.0
2,2'-oxybis[1-chloropropane]	4.0	U	0.25	4.0

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	57	36 - 120
2-Fluorobiphenyl	45	39 - 120
2-Fluorophenol	22	13 - 120
Nitrobenzene-d5	44	40 - 120
Phenol-d5	15	10 - 120
Terphenyl-d14	79	10 - 120

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34329

Method: 8270C
Preparation: 3510C

Lab Sample ID: LCS 220-34329/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/21/2009 1120
Date Prepared: 12/16/2009 1010

Analysis Batch: 220-34488
Prep Batch: 220-34329
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Z14568.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-Trichlorophenol	40.0	25.4	64	23 - 123	
2,4,6-Trichlorophenol	40.0	24.7	62	18 - 125	
2,4-Dichlorophenol	40.0	21.5	54	18 - 120	
2,4-Dimethylphenol	40.0	20.4	51	26 - 120	
2,4-Dinitrotoluene	40.0	30.7	77	46 - 124	
2,4-Dinitrophenol	40.0	28.8	72	17 - 128	
2,6-Dinitrotoluene	40.0	29.9	75	63 - 120	
2-Chloronaphthalene	40.0	23.4	58	46 - 120	
2-Chlorophenol	40.0	18.9	47	18 - 120	
2-Methylnaphthalene	40.0	21.9	55	44 - 120	
2-Methylphenol	40.0	18.4	46	25 - 120	
2-Nitroaniline	40.0	27.0	67	57 - 120	
2-Nitrophenol	40.0	21.6	54	36 - 120	
3,3'-Dichlorobenzidine	40.0	20.7	52	39 - 120	
3-Nitroaniline	40.0	28.7	72	54 - 120	
4,6-Dinitro-2-methylphenol	40.0	30.0	75	50 - 120	
4-Bromophenyl phenyl ether	40.0	28.0	70	60 - 120	
4-Chloro-3-methylphenol	40.0	23.8	60	32 - 120	
4-Chloroaniline	40.0	23.0	57	33 - 120	
4-Chlorophenyl phenyl ether	40.0	25.7	64	58 - 120	
4-Methylphenol	80.0	33.8	42	21 - 120	
4-Nitroaniline	40.0	26.3	66	54 - 120	
4-Nitrophenol	40.0	12.3	31	12 - 120	
Acenaphthene	40.0	24.2	60	52 - 120	
Acenaphthylene	40.0	23.8	60	52 - 120	
Anthracene	40.0	29.2	73	60 - 120	
Benzo[a]anthracene	40.0	30.9	77	60 - 120	
Benzo[a]pyrene	40.0	29.8	75	51 - 120	
Benzo[b]fluoranthene	40.0	27.3	68	59 - 120	
Benzo[g,h,i]perylene	40.0	25.1	63	48 - 120	
Benzo[k]fluoranthene	40.0	30.7	77	58 - 120	
Bis(2-chloroethoxy)methane	40.0	22.3	56	48 - 120	
Bis(2-chloroethyl)ether	40.0	20.1	50	46 - 120	
Bis(2-ethylhexyl) phthalate	40.0	32.6	82	57 - 120	
Butyl benzyl phthalate	40.0	30.6	77	53 - 122	
Carbazole	40.0	30.1	75	62 - 120	
Chrysene	40.0	30.9	77	59 - 120	
Di-n-butyl phthalate	40.0	31.5	79	61 - 120	
Di-n-octyl phthalate	40.0	29.0	72	57 - 120	
Dibenz(a,h)anthracene	40.0	26.6	66	47 - 120	
Dibenzofuran	40.0	24.4	61	56 - 120	
Diethyl phthalate	40.0	29.9	75	57 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34329

Method: 8270C
Preparation: 3510C

Lab Sample ID: LCS 220-34329/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/21/2009 1120
Date Prepared: 12/16/2009 1010

Analysis Batch: 220-34488
Prep Batch: 220-34329
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Z14568.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dimethyl phthalate	40.0	27.7	69	49 - 120	
Fluoranthene	40.0	30.9	77	56 - 120	
Fluorene	40.0	26.6	66	61 - 120	
Hexachlorobenzene	40.0	28.2	71	59 - 120	
Hexachlorobutadiene	40.0	18.2	45	30 - 120	
Hexachlorocyclopentadiene	40.0	15.3	38	15 - 120	
Hexachloroethane	40.0	16.5	41	29 - 120	
Indeno[1,2,3-cd]pyrene	40.0	26.4	66	48 - 120	
Isophorone	40.0	22.4	56	47 - 120	
N-Nitrosodi-n-propylamine	40.0	22.0	55	49 - 120	
N-Nitrosodiphenylamine	40.0	28.9	72	62 - 120	
Naphthalene	40.0	20.5	51	42 - 120	
Nitrobenzene	40.0	21.1	53	46 - 120	
Pentachlorophenol	40.0	25.3	63	50 - 120	
Phenanthrene	40.0	29.1	73	63 - 120	
Phenol	40.0	9.19	23	10 - 120	
Pyrene	40.0	30.0	75	62 - 120	
2,2'-oxybis[1-chloropropane]	40.0	20.3	51	45 - 120	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	70	36 - 120
2-Fluorobiphenyl	54	39 - 120
2-Fluorophenol	27	13 - 120
Nitrobenzene-d5	50	40 - 120
Phenol-d5	19	10 - 120
Terphenyl-d14	72	10 - 120

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34351

Method: 8270C
Preparation: 3541

Lab Sample ID: MB 220-34351/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/21/2009 0844
Date Prepared: 12/16/2009 1522

Analysis Batch: 220-34490
Prep Batch: 220-34351
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: C15358.D
Initial Weight/Volume: 15.0 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	270	U	18	270
2,4,5-Trichlorophenol	1700	U	14	1700
2,4,6-Trichlorophenol	270	U	7.4	270
2,4-Dichlorophenol	270	U	14	270
2,4-Dimethylphenol	270	U	13	270
2,4-Dinitrotoluene	270	U	22	270
2,4-Dinitrophenol	1700	U	81	1700
2,6-Dinitrotoluene	270	U	7.9	270
2-Chloronaphthalene	270	U	12	270
2-Chlorophenol	270	U	16	270
2-Methylnaphthalene	270	U	7.7	270
2-Methylphenol	270	U	16	270
2-Nitroaniline	670	U	16	670
2-Nitrophenol	270	U	17	270
3,3'-Dichlorobenzidine	330	U	56	330
3-Nitroaniline	670	U	8.6	670
4,6-Dinitro-2-methylphenol	1700	U	120	1700
4-Bromophenyl phenyl ether	270	U	17	270
4-Chloro-3-methylphenol	270	U	11	270
4-Chloroaniline	270	U	44	270
4-Chlorophenyl phenyl ether	270	U	20	270
4-Methylphenol	270	U	18	270
4-Nitroaniline	270	U	21	270
4-Nitrophenol	1700	U	20	1700
Acenaphthene	270	U	16	270
Acenaphthylene	270	U	13	270
Acetophenone	270	U	14	270
Anthracene	270	U	11	270
Atrazine	330	U	17	330
Benzaldehyde	270	U	45	270
Benzo[a]anthracene	270	U	9.6	270
Benzo[a]pyrene	270	U	7.3	270
Benzo[b]fluoranthene	270	U	7.2	270
Benzo[g,h,i]perylene	270	U	18	270
Benzo[k]fluoranthene	270	U	24	270
Bis(2-chloroethoxy)methane	270	U	13	270
Bis(2-chloroethyl)ether	270	U	14	270
Bis(2-ethylhexyl) phthalate	54.5	J	26	270
Butyl benzyl phthalate	270	U	15	270
Caprolactam	270	U	21	270
Carbazole	270	U	15	270

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

Method Blank - Batch: 220-34351

Method: 8270C
Preparation: 3541

Lab Sample ID: MB 220-34351/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/21/2009 0844
Date Prepared: 12/16/2009 1522

Analysis Batch: 220-34490
Prep Batch: 220-34351
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: C15358.D
Initial Weight/Volume: 15.0 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Chrysene	270	U	20	270
Di-n-butyl phthalate	270	U	39	270
Di-n-octyl phthalate	270	U	15	270
Dibenz(a,h)anthracene	270	U	21	270
Dibenzofuran	270	U	19	270
Diethyl phthalate	270	U	27	270
Dimethyl phthalate	270	U	16	270
Fluoranthene	270	U	13	270
Fluorene	270	U	16	270
Hexachlorobenzene	270	U	19	270
Hexachlorobutadiene	270	U	21	270
Hexachlorocyclopentadiene	670	U	130	670
Hexachloroethane	270	U	15	270
Indeno[1,2,3-cd]pyrene	270	U	18	270
Isophorone	270	U	15	270
N-Nitrosodi-n-propylamine	270	U	18	270
N-Nitrosodiphenylamine	270	U	15	270
Naphthalene	270	U	14	270
Nitrobenzene	270	U	17	270
Pentachlorophenol	670	U	160	670
Phenanthrene	270	U	13	270
Phenol	270	U	18	270
Pyrene	270	U	13	270
2,2'-oxybis[1-chloropropane]	270	U	14	270

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	67	37 - 120
2-Fluorobiphenyl	65	41 - 120
2-Fluorophenol	67	34 - 120
Nitrobenzene-d5	69	38 - 120
Phenol-d5	67	36 - 120
Terphenyl-d14	65	32 - 125

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34351

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 220-34351/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/21/2009 0914
Date Prepared: 12/16/2009 1522

Analysis Batch: 220-34490
Prep Batch: 220-34351
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: C15359.D
Initial Weight/Volume: 15.0 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-Trichlorophenol	2670	1940	73	56 - 120	
2,4,6-Trichlorophenol	2670	1990	75	56 - 120	
2,4-Dichlorophenol	2670	1980	74	54 - 120	
2,4-Dimethylphenol	2670	1820	68	49 - 120	
2,4-Dinitrotoluene	2670	2120	80	57 - 120	
2,4-Dinitrophenol	2670	1540	58	33 - 120	J
2,6-Dinitrotoluene	2670	2250	84	59 - 120	
2-Chloronaphthalene	2670	1940	73	56 - 120	
2-Chlorophenol	2670	1930	72	54 - 120	
2-Methylnaphthalene	2670	2040	77	56 - 120	
2-Methylphenol	2670	1960	74	53 - 120	
2-Nitroaniline	2670	2080	78	57 - 120	
2-Nitrophenol	2670	2180	82	56 - 120	
3,3'-Dichlorobenzidine	2670	1420	53	24 - 120	
3-Nitroaniline	2670	1550	58	38 - 120	
4,6-Dinitro-2-methylphenol	2670	1670	63	48 - 120	J
4-Bromophenyl phenyl ether	2670	1970	74	57 - 120	
4-Chloro-3-methylphenol	2670	1990	75	56 - 120	
4-Chloroaniline	2670	717	27	15 - 120	
4-Chlorophenyl phenyl ether	2670	1990	74	56 - 120	
4-Methylphenol	5330	3860	72	54 - 120	
4-Nitroaniline	2670	2140	80	53 - 120	
4-Nitrophenol	2670	2080	78	55 - 120	
Acenaphthene	2670	1950	73	57 - 120	
Acenaphthylene	2670	1920	72	57 - 120	
Anthracene	2670	1960	73	58 - 120	
Benzo[a]anthracene	2670	1970	74	58 - 120	
Benzo[a]pyrene	2670	1920	72	44 - 120	
Benzo[b]fluoranthene	2670	1960	73	54 - 120	
Benzo[g,h,i]perylene	2670	1900	71	37 - 120	
Benzo[k]fluoranthene	2670	1840	69	53 - 120	
Bis(2-chloroethoxy)methane	2670	1950	73	56 - 120	
Bis(2-chloroethyl)ether	2670	1880	70	52 - 120	
Bis(2-ethylhexyl) phthalate	2670	2070	78	56 - 120	
Butyl benzyl phthalate	2670	2040	77	54 - 120	
Carbazole	2670	2020	76	58 - 120	
Chrysene	2670	1860	70	57 - 120	
Di-n-butyl phthalate	2670	2030	76	58 - 120	
Di-n-octyl phthalate	2670	2250	84	48 - 126	
Dibenz(a,h)anthracene	2670	2030	76	39 - 120	
Dibenzofuran	2670	1950	73	57 - 120	
Diethyl phthalate	2670	1730	65	57 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34351

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 220-34351/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/21/2009 0914
Date Prepared: 12/16/2009 1522

Analysis Batch: 220-34490
Prep Batch: 220-34351
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: C15359.D
Initial Weight/Volume: 15.0 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dimethyl phthalate	2670	1960	73	56 - 120	
Fluoranthene	2670	2020	76	57 - 120	
Fluorene	2670	2010	75	58 - 120	
Hexachlorobenzene	2670	1990	75	56 - 120	
Hexachlorobutadiene	2670	1910	72	54 - 120	
Hexachlorocyclopentadiene	2670	1850	69	50 - 120	
Hexachloroethane	2670	1830	68	52 - 120	
Indeno[1,2,3-cd]pyrene	2670	2060	77	37 - 120	
Isophorone	2670	1940	73	55 - 120	
N-Nitrosodi-n-propylamine	2670	1920	72	54 - 120	
N-Nitrosodiphenylamine	2670	1900	71	59 - 120	
Naphthalene	2670	1960	74	55 - 120	
Nitrobenzene	2670	1970	74	54 - 120	
Pentachlorophenol	2670	1910	72	52 - 120	
Phenanthrene	2670	1980	74	58 - 120	
Phenol	2670	1870	70	51 - 120	
Pyrene	2670	1980	74	54 - 121	
2,2'-oxybis[1-chloropropane]	2670	1870	70	51 - 120	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	76	37 - 120
2-Fluorobiphenyl	69	41 - 120
2-Fluorophenol	70	34 - 120
Nitrobenzene-d5	72	38 - 120
Phenol-d5	69	36 - 120
Terphenyl-d14	71	32 - 125

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 220-34351

Method: 8270C
Preparation: 3541

MS Lab Sample ID:	220-11066-12	Analysis Batch:	220-34531	Instrument ID:	HP 6890/5975
Client Matrix:	Solid	Prep Batch:	220-34351	Lab File ID:	C15404.D
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/22/2009 1845			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

MSD Lab Sample ID:	220-11066-12	Analysis Batch:	220-34531	Instrument ID:	HP 6890/5975
Client Matrix:	Solid	Prep Batch:	220-34351	Lab File ID:	C15405.D
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/22/2009 1915			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2,4,5-Trichlorophenol	76	72	56 - 120	5	40		
2,4,6-Trichlorophenol	76	71	56 - 120	6	40		
2,4-Dichlorophenol	71	67	54 - 120	6	40		
2,4-Dimethylphenol	74	70	49 - 120	6	40		
2,4-Dinitrotoluene	79	76	57 - 120	5	40		
2,4-Dinitrophenol	57	58	33 - 120	2	40	J	J
2,6-Dinitrotoluene	83	79	59 - 120	5	40		
2-Chloronaphthalene	71	68	56 - 120	5	40		
2-Chlorophenol	67	63	54 - 120	6	50		
2-Methylnaphthalene	72	69	56 - 120	4	40		
2-Methylphenol	69	63	53 - 120	9	40		
2-Nitroaniline	81	78	57 - 120	4	40		
2-Nitrophenol	74	71	56 - 120	5	40		
3,3'-Dichlorobenzidine	67	70	24 - 120	5	40		
3-Nitroaniline	72	72	38 - 120	0	40		
4,6-Dinitro-2-methylphenol	54	54	48 - 120	0	40	J	J
4-Bromophenyl phenyl ether	81	77	57 - 120	5	40		
4-Chloro-3-methylphenol	77	71	56 - 120	7	33		
4-Chloroaniline	49	51	15 - 120	5	40		
4-Chlorophenyl phenyl ether	74	71	56 - 120	4	40		
4-Methylphenol	67	64	54 - 120	5	40		
4-Nitroaniline	76	74	53 - 120	3	40		
4-Nitrophenol	76	74	55 - 120	3	40		
Acenaphthene	72	69	57 - 120	4	40		
Acenaphthylene	70	67	57 - 120	5	19		
Anthracene	78	75	58 - 120	4	40		
Benzo[a]anthracene	85	82	58 - 120	3	40		
Benzo[a]pyrene	84	82	44 - 120	3	40		
Benzo[b]fluoranthene	91	89	54 - 120	2	40		
Benzo[g,h,i]perylene	75	73	37 - 120	3	40		

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 220-34351

Method: 8270C
Preparation: 3541

MS Lab Sample ID:	220-11066-12	Analysis Batch:	220-34531	Instrument ID:	HP 6890/5975
Client Matrix:	Solid	Prep Batch:	220-34351	Lab File ID:	C15404.D
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Date Analyzed:	12/22/2009 1845			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

MSD Lab Sample ID:	220-11066-12	Analysis Batch:	220-34531	Instrument ID:	HP 6890/5975
Client Matrix:	Solid	Prep Batch:	220-34351	Lab File ID:	C15405.D
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Date Analyzed:	12/22/2009 1915			Final Weight/Volume:	1.0 mL
Date Prepared:	12/16/2009 1522			Injection Volume:	1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzo[k]fluoranthene	85	83	53 - 120	4	40		
Bis(2-chloroethoxy)methane	67	63	56 - 120	5	40		
Bis(2-chloroethyl)ether	64	60	52 - 120	6	40		
Bis(2-ethylhexyl) phthalate	87	84	56 - 120	3	40		
Butyl benzyl phthalate	87	87	54 - 120	1	40		
Carbazole	78	75	58 - 120	4	40		
Chrysene	79	77	57 - 120	3	40		
Di-n-butyl phthalate	81	78	58 - 120	4	40		
Di-n-octyl phthalate	111	108	48 - 126	3	40		
Dibenz(a,h)anthracene	77	75	39 - 120	3	40		
Dibenzofuran	72	69	57 - 120	5	40		
Diethyl phthalate	66	64	57 - 120	2	40		
Dimethyl phthalate	74	72	56 - 120	4	40		
Fluoranthene	85	75	57 - 120	12	40		
Fluorene	74	71	58 - 120	4	40		
Hexachlorobenzene	81	78	56 - 120	4	40		
Hexachlorobutadiene	66	63	54 - 120	5	40		
Hexachlorocyclopentadiene	0	0	50 - 120	NC	40	U *	U *
Hexachloroethane	46	39	52 - 120	18	40	*	*
Indeno[1,2,3-cd]pyrene	82	80	37 - 120	2	40		
Isophorone	67	64	55 - 120	4	40		
N-Nitrosodi-n-propylamine	67	63	54 - 120	6	38		
N-Nitrosodiphenylamine	81	76	59 - 120	6	40		
Naphthalene	67	63	55 - 120	6	40		
Nitrobenzene	66	63	54 - 120	5	40		
Pentachlorophenol	62	55	52 - 120	12	47		
Phenanthrene	86	76	58 - 120	12	40		
Phenol	63	60	51 - 120	5	35		
Pyrene	90	81	54 - 121	9	36		
2,2'-oxybis[1-chloropropane]	60	57	51 - 120	6	40		

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

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	74	73	37 - 120
2-Fluorobiphenyl	64	62	41 - 120
2-Fluorophenol	63	58	34 - 120
Nitrobenzene-d5	65	61	38 - 120
Phenol-d5	62	59	36 - 120
Terphenyl-d14	79	79	32 - 125

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 220-34351

Method: 8270C
Preparation: 3541

MS Lab Sample ID:	220-11066-12	Units: ug/Kg	MSD Lab Sample ID:	220-11066-12	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	12/22/2009 1845		Date Analyzed:	12/22/2009 1915	
Date Prepared:	12/16/2009 1522		Date Prepared:	12/16/2009 1522	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
2,4,5-Trichlorophenol	2300	U	3600	3590	2740		2600	
2,4,6-Trichlorophenol	360	U	3600	3590	2720		2550	
2,4-Dichlorophenol	360	U	3600	3590	2550		2400	
2,4-Dimethylphenol	360	U	3600	3590	2670		2510	
2,4-Dinitrotoluene	360	U	3600	3590	2850		2720	
2,4-Dinitrophenol	2300	U	3600	3590	2050	J	2090	J
2,6-Dinitrotoluene	360	U	3600	3590	3000		2840	
2-Chloronaphthalene	360	U	3600	3590	2550		2430	
2-Chlorophenol	360	U	3600	3590	2390		2250	
2-Methylnaphthalene	29	J	3600	3590	2610		2510	
2-Methylphenol	360	U	3600	3590	2470		2260	
2-Nitroaniline	900	U	3600	3590	2920		2800	
2-Nitrophenol	360	U	3600	3590	2670		2540	
3,3'-Dichlorobenzidine	440	U	3600	3590	2410		2530	
3-Nitroaniline	900	U	3600	3590	2590		2580	
4,6-Dinitro-2-methylphenol	2300	U	3600	3590	1940	J	1950	J
4-Bromophenyl phenyl ether	360	U	3600	3590	2910		2770	
4-Chloro-3-methylphenol	360	U	3600	3590	2750		2560	
4-Chloroaniline	360	U	3600	3590	1750		1840	
4-Chlorophenyl phenyl ether	360	U	3600	3590	2670		2560	
4-Methylphenol	360	U	7190	7190	4830		4620	
4-Nitroaniline	360	U	3600	3590	2740		2660	
4-Nitrophenol	2300	U	3600	3590	2740		2650	
Acenaphthene	360	U	3600	3590	2570		2470	
Acenaphthylene	360	U	3600	3590	2510		2400	
Anthracene	32	J	3600	3590	2830		2720	
Benzo[a]anthracene	59	J	3600	3590	3110		3010	
Benzo[a]pyrene	46	J	3600	3590	3080		2990	
Benzo[b]fluoranthene	50	J	3600	3590	3320		3250	
Benzo[g,h,i]perylene	360	U	3600	3590	2700		2630	
Benzo[k]fluoranthene	360	U	3600	3590	3080		2960	
Bis(2-chloroethoxy)methane	360	U	3600	3590	2400		2280	
Bis(2-chloroethyl)ether	360	U	3600	3590	2310		2170	
Bis(2-ethylhexyl) phthalate	44	J	3600	3590	3160		3080	
Butyl benzyl phthalate	360	U	3600	3590	3130		3110	
Carbazole	360	U	3600	3590	2820		2700	
Chrysene	51	J	3600	3590	2880		2800	
Di-n-butyl phthalate	360	U	3600	3590	2930		2820	
Di-n-octyl phthalate	360	U	3600	3590	3990		3900	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 220-34351

Method: 8270C
Preparation: 3541

MS Lab Sample ID:	220-11066-12	Units: ug/Kg	MSD Lab Sample ID:	220-11066-12	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	12/22/2009 1845		Date Analyzed:	12/22/2009 1915	
Date Prepared:	12/16/2009 1522		Date Prepared:	12/16/2009 1522	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Dibenz(a,h)anthracene	360	U	3600	3590	2790		2690	
Dibenzofuran	360	U	3600	3590	2610		2490	
Diethyl phthalate	360	U	3600	3590	2370		2310	
Dimethyl phthalate	360	U	3600	3590	2680		2570	
Fluoranthene	84	J	3600	3590	3140		2770	
Fluorene	24	J	3600	3590	2700		2590	
Hexachlorobenzene	360	U	3600	3590	2910		2800	
Hexachlorobutadiene	360	U	3600	3590	2390		2270	
Hexachlorocyclopentadiene	900	U	3600	3590	900	U *	900	U *
Hexachloroethane	360	U	3600	3590	1670	*	1390	*
Indeno[1,2,3-cd]pyrene	360	U	3600	3590	2940		2860	
Isophorone	360	U	3600	3590	2410		2310	
N-Nitrosodi-n-propylamine	360	U	3600	3590	2400		2260	
N-Nitrosodiphenylamine	360	U	3600	3590	2910		2740	
Naphthalene	32	J	3600	3590	2450		2310	
Nitrobenzene	360	U	3600	3590	2370		2260	
Pentachlorophenol	900	U	3600	3590	2250		1980	
Phenanthrene	70	J	3600	3590	3160		2800	
Phenol	360	U	3600	3590	2250		2150	
Pyrene	250	J	3600	3590	3480		3170	
2,2'-oxybis[1-chloropropane]	360	U	3600	3590	2170		2040	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34355

Method: 8270C
Preparation: 3541

Lab Sample ID: MB 220-34355/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 0928
Date Prepared: 12/16/2009 1643

Analysis Batch: 220-34531
Prep Batch: 220-34355
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: C15386.D
Initial Weight/Volume: 15.0 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	270	U	18	270
2,4,5-Trichlorophenol	1700	U	14	1700
2,4,6-Trichlorophenol	270	U	7.4	270
2,4-Dichlorophenol	270	U	14	270
2,4-Dimethylphenol	270	U	13	270
2,4-Dinitrotoluene	270	U	22	270
2,4-Dinitrophenol	1700	U	81	1700
2,6-Dinitrotoluene	270	U	7.9	270
2-Chloronaphthalene	270	U	12	270
2-Chlorophenol	270	U	16	270
2-Methylnaphthalene	270	U	7.7	270
2-Methylphenol	270	U	16	270
2-Nitroaniline	670	U	16	670
2-Nitrophenol	270	U	17	270
3,3'-Dichlorobenzidine	330	U	56	330
3-Nitroaniline	670	U	8.6	670
4,6-Dinitro-2-methylphenol	1700	U	120	1700
4-Bromophenyl phenyl ether	270	U	17	270
4-Chloro-3-methylphenol	270	U	11	270
4-Chloroaniline	270	U	44	270
4-Chlorophenyl phenyl ether	270	U	20	270
4-Methylphenol	270	U	18	270
4-Nitroaniline	270	U	21	270
4-Nitrophenol	1700	U	20	1700
Acenaphthene	270	U	16	270
Acenaphthylene	270	U	13	270
Acetophenone	270	U	14	270
Anthracene	270	U	11	270
Atrazine	330	U	17	330
Benzaldehyde	270	U	45	270
Benzo[a]anthracene	270	U	9.6	270
Benzo[a]pyrene	270	U	7.3	270
Benzo[b]fluoranthene	270	U	7.2	270
Benzo[g,h,i]perylene	270	U	18	270
Benzo[k]fluoranthene	270	U	24	270
Bis(2-chloroethoxy)methane	270	U	13	270
Bis(2-chloroethyl)ether	270	U	14	270
Bis(2-ethylhexyl) phthalate	45.9	J	26	270
Butyl benzyl phthalate	270	U	15	270
Caprolactam	270	U	21	270
Carbazole	270	U	15	270

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34355

Method: 8270C
Preparation: 3541

Lab Sample ID: MB 220-34355/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 0928
Date Prepared: 12/16/2009 1643

Analysis Batch: 220-34531
Prep Batch: 220-34355
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: C15386.D
Initial Weight/Volume: 15.0 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Chrysene	270	U	20	270
Di-n-butyl phthalate	270	U	39	270
Di-n-octyl phthalate	270	U	15	270
Dibenz(a,h)anthracene	270	U	21	270
Dibenzofuran	270	U	19	270
Diethyl phthalate	270	U	27	270
Dimethyl phthalate	270	U	16	270
Fluoranthene	270	U	13	270
Fluorene	270	U	16	270
Hexachlorobenzene	270	U	19	270
Hexachlorobutadiene	270	U	21	270
Hexachlorocyclopentadiene	670	U	130	670
Hexachloroethane	270	U	15	270
Indeno[1,2,3-cd]pyrene	270	U	18	270
Isophorone	270	U	15	270
N-Nitrosodi-n-propylamine	270	U	18	270
N-Nitrosodiphenylamine	270	U	15	270
Naphthalene	270	U	14	270
Nitrobenzene	270	U	17	270
Pentachlorophenol	670	U	160	670
Phenanthrene	270	U	13	270
Phenol	270	U	18	270
Pyrene	270	U	13	270
2,2'-oxybis[1-chloropropane]	270	U	14	270

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	70	37 - 120
2-Fluorobiphenyl	66	41 - 120
2-Fluorophenol	68	34 - 120
Nitrobenzene-d5	70	38 - 120
Phenol-d5	69	36 - 120
Terphenyl-d14	67	32 - 125

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

Lab Control Sample - Batch: 220-34355

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 220-34355/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 0959
Date Prepared: 12/16/2009 1643

Analysis Batch: 220-34531
Prep Batch: 220-34355
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: C15387.D
Initial Weight/Volume: 15.0 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-Trichlorophenol	2670	1880	70	56 - 120	
2,4,6-Trichlorophenol	2670	1980	74	56 - 120	
2,4-Dichlorophenol	2670	2000	75	54 - 120	
2,4-Dimethylphenol	2670	1790	67	49 - 120	
2,4-Dinitrotoluene	2670	2060	77	57 - 120	
2,4-Dinitrophenol	2670	1430	54	33 - 120	J
2,6-Dinitrotoluene	2670	2210	83	59 - 120	
2-Chloronaphthalene	2670	1940	73	56 - 120	
2-Chlorophenol	2670	1970	74	54 - 120	
2-Methylnaphthalene	2670	2070	78	56 - 120	
2-Methylphenol	2670	1960	73	53 - 120	
2-Nitroaniline	2670	2040	76	57 - 120	
2-Nitrophenol	2670	2190	82	56 - 120	
3,3'-Dichlorobenzidine	2670	1330	50	24 - 120	
3-Nitroaniline	2670	1320	50	38 - 120	
4,6-Dinitro-2-methylphenol	2670	1430	54	48 - 120	J
4-Bromophenyl phenyl ether	2670	1980	74	57 - 120	
4-Chloro-3-methylphenol	2670	1990	75	56 - 120	
4-Chloroaniline	2670	686	26	15 - 120	
4-Chlorophenyl phenyl ether	2670	2000	75	56 - 120	
4-Methylphenol	5330	3940	74	54 - 120	
4-Nitroaniline	2670	1940	73	53 - 120	
4-Nitrophenol	2670	2070	78	55 - 120	
Acenaphthene	2670	1950	73	57 - 120	
Acenaphthylene	2670	1910	71	57 - 120	
Anthracene	2670	1920	72	58 - 120	
Benzo[a]anthracene	2670	1970	74	58 - 120	
Benzo[a]pyrene	2670	1960	74	44 - 120	
Benzo[b]fluoranthene	2670	1970	74	54 - 120	
Benzo[g,h,i]perylene	2670	1980	74	37 - 120	
Benzo[k]fluoranthene	2670	1950	73	53 - 120	
Bis(2-chloroethoxy)methane	2670	1940	73	56 - 120	
Bis(2-chloroethyl)ether	2670	1910	72	52 - 120	
Bis(2-ethylhexyl) phthalate	2670	2040	76	56 - 120	
Butyl benzyl phthalate	2670	1970	74	54 - 120	
Carbazole	2670	1970	74	58 - 120	
Chrysene	2670	1860	70	57 - 120	
Di-n-butyl phthalate	2670	1970	74	58 - 120	
Di-n-octyl phthalate	2670	2160	81	48 - 126	
Dibenz(a,h)anthracene	2670	2120	79	39 - 120	
Dibenzofuran	2670	1960	73	57 - 120	
Diethyl phthalate	2670	1690	63	57 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34355

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 220-34355/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 0959
Date Prepared: 12/16/2009 1643

Analysis Batch: 220-34531
Prep Batch: 220-34355
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: C15387.D
Initial Weight/Volume: 15.0 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dimethyl phthalate	2670	1900	71	56 - 120	
Fluoranthene	2670	1990	74	57 - 120	
Fluorene	2670	1960	74	58 - 120	
Hexachlorobenzene	2670	2010	75	56 - 120	
Hexachlorobutadiene	2670	2010	75	54 - 120	
Hexachlorocyclopentadiene	2670	1960	73	50 - 120	
Hexachloroethane	2670	1890	71	52 - 120	
Indeno[1,2,3-cd]pyrene	2670	2140	80	37 - 120	
Isophorone	2670	1920	72	55 - 120	
N-Nitrosodi-n-propylamine	2670	1980	74	54 - 120	
N-Nitrosodiphenylamine	2670	1900	71	59 - 120	
Naphthalene	2670	1960	74	55 - 120	
Nitrobenzene	2670	1980	74	54 - 120	
Pentachlorophenol	2670	1760	66	52 - 120	
Phenanthrene	2670	1940	73	58 - 120	
Phenol	2670	1870	70	51 - 120	
Pyrene	2670	1960	73	54 - 121	
2,2'-oxybis[1-chloropropane]	2670	1840	69	51 - 120	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	73	37 - 120
2-Fluorobiphenyl	68	41 - 120
2-Fluorophenol	70	34 - 120
Nitrobenzene-d5	72	38 - 120
Phenol-d5	70	36 - 120
Terphenyl-d14	69	32 - 125

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

Method Blank - Batch: 220-34526

Method: 8270C
Preparation: 3541

Lab Sample ID: MB 220-34526/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2009 0821
Date Prepared: 12/22/2009 1017

Analysis Batch: 220-34589
Prep Batch: 220-34526
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: A9262.D
Initial Weight/Volume: 7.50 g
Final Weight/Volume: .5 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	270	U	18	270
2,4,5-Trichlorophenol	1700	U	14	1700
2,4,6-Trichlorophenol	270	U	7.4	270
2,4-Dichlorophenol	270	U	14	270
2,4-Dimethylphenol	270	U	13	270
2,4-Dinitrotoluene	270	U	22	270
2,4-Dinitrophenol	1700	U	81	1700
2,6-Dinitrotoluene	270	U	7.9	270
2-Chloronaphthalene	270	U	12	270
2-Chlorophenol	270	U	16	270
2-Methylnaphthalene	270	U	7.7	270
2-Methylphenol	270	U	16	270
2-Nitroaniline	670	U	16	670
2-Nitrophenol	270	U	17	270
3,3'-Dichlorobenzidine	330	U	56	330
3-Nitroaniline	670	U	8.6	670
4,6-Dinitro-2-methylphenol	1700	U	120	1700
4-Bromophenyl phenyl ether	270	U	17	270
4-Chloro-3-methylphenol	270	U	11	270
4-Chloroaniline	270	U	44	270
4-Chlorophenyl phenyl ether	270	U	20	270
4-Methylphenol	270	U	18	270
4-Nitroaniline	270	U	21	270
4-Nitrophenol	1700	U	20	1700
Acenaphthene	270	U	16	270
Acenaphthylene	270	U	13	270
Acetophenone	270	U	14	270
Anthracene	270	U	11	270
Atrazine	330	U	17	330
Benzaldehyde	270	U	45	270
Benzo[a]anthracene	14.0	J	9.6	270
Benzo[a]pyrene	10.5	J	7.3	270
Benzo[b]fluoranthene	9.19	J	7.2	270
Benzo[g,h,i]perylene	270	U	18	270
Benzo[k]fluoranthene	270	U	24	270
Bis(2-chloroethoxy)methane	270	U	13	270
Bis(2-chloroethyl)ether	270	U	14	270
Bis(2-ethylhexyl) phthalate	40.9	J	26	270
Butyl benzyl phthalate	270	U	15	270
Caprolactam	23.0	J	21	270
Carbazole	270	U	15	270

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

Method Blank - Batch: 220-34526

Method: 8270C
Preparation: 3541

Lab Sample ID: MB 220-34526/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2009 0821
Date Prepared: 12/22/2009 1017

Analysis Batch: 220-34589
Prep Batch: 220-34526
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: A9262.D
Initial Weight/Volume: 7.50 g
Final Weight/Volume: .5 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Chrysene	270	U	20	270
Di-n-butyl phthalate	270	U	39	270
Di-n-octyl phthalate	270	U	15	270
Dibenz(a,h)anthracene	270	U	21	270
Dibenzofuran	270	U	19	270
Diethyl phthalate	270	U	27	270
Dimethyl phthalate	270	U	16	270
Fluoranthene	270	U	13	270
Fluorene	270	U	16	270
Hexachlorobenzene	270	U	19	270
Hexachlorobutadiene	270	U	21	270
Hexachlorocyclopentadiene	670	U	130	670
Hexachloroethane	270	U	15	270
Indeno[1,2,3-cd]pyrene	270	U	18	270
Isophorone	270	U	15	270
N-Nitrosodi-n-propylamine	270	U	18	270
N-Nitrosodiphenylamine	270	U	15	270
Naphthalene	270	U	14	270
Nitrobenzene	270	U	17	270
Pentachlorophenol	670	U	160	670
Phenanthrene	270	U	13	270
Phenol	270	U	18	270
Pyrene	270	U	13	270
2,2'-oxybis[1-chloropropane]	270	U	14	270

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	65	37 - 120
2-Fluorobiphenyl	64	41 - 120
2-Fluorophenol	63	34 - 120
Nitrobenzene-d5	64	38 - 120
Phenol-d5	63	36 - 120
Terphenyl-d14	61	32 - 125

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34526

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 220-34526/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2009 0850
Date Prepared: 12/22/2009 1017

Analysis Batch: 220-34589
Prep Batch: 220-34526
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: A9263.D
Initial Weight/Volume: 7.50 g
Final Weight/Volume: .5 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-Trichlorophenol	2670	1930	72	56 - 120	
2,4,6-Trichlorophenol	2670	1930	72	56 - 120	
2,4-Dichlorophenol	2670	1840	69	54 - 120	
2,4-Dimethylphenol	2670	1750	66	49 - 120	
2,4-Dinitrotoluene	2670	2080	78	57 - 120	
2,4-Dinitrophenol	2670	2170	81	33 - 120	
2,6-Dinitrotoluene	2670	2080	78	59 - 120	
2-Chloronaphthalene	2670	1890	71	56 - 120	
2-Chlorophenol	2670	1790	67	54 - 120	
2-Methylnaphthalene	2670	1870	70	56 - 120	
2-Methylphenol	2670	1830	69	53 - 120	
2-Nitroaniline	2670	1940	73	57 - 120	
2-Nitrophenol	2670	1810	68	56 - 120	
3,3'-Dichlorobenzidine	2670	1970	74	24 - 120	
3-Nitroaniline	2670	1590	60	38 - 120	
4,6-Dinitro-2-methylphenol	2670	2080	78	48 - 120	
4-Bromophenyl phenyl ether	2670	1990	75	57 - 120	
4-Chloro-3-methylphenol	2670	1960	73	56 - 120	
4-Chloroaniline	2670	1330	50	15 - 120	
4-Chlorophenyl phenyl ether	2670	1970	74	56 - 120	
4-Methylphenol	5330	3550	67	54 - 120	
4-Nitroaniline	2670	2020	76	53 - 120	
4-Nitrophenol	2670	2140	80	55 - 120	
Acenaphthene	2670	1840	69	57 - 120	
Acenaphthylene	2670	1830	69	57 - 120	
Anthracene	2670	2010	75	58 - 120	
Benzo[a]anthracene	2670	2060	77	58 - 120	
Benzo[a]pyrene	2670	2040	77	44 - 120	
Benzo[b]fluoranthene	2670	1880	71	54 - 120	
Benzo[g,h,i]perylene	2670	2480	93	37 - 120	
Benzo[k]fluoranthene	2670	1700	64	53 - 120	
Bis(2-chloroethoxy)methane	2670	1800	68	56 - 120	
Bis(2-chloroethyl)ether	2670	1720	65	52 - 120	
Bis(2-ethylhexyl) phthalate	2670	2400	90	56 - 120	
Butyl benzyl phthalate	2670	2130	80	54 - 120	
Carbazole	2670	2070	78	58 - 120	
Chrysene	2670	2010	75	57 - 120	
Di-n-butyl phthalate	2670	2200	82	58 - 120	
Di-n-octyl phthalate	2670	1730	65	48 - 126	
Dibenz(a,h)anthracene	2670	2800	105	39 - 120	
Dibenzofuran	2670	1900	71	57 - 120	
Diethyl phthalate	2670	2070	78	57 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34526

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 220-34526/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2009 0850
Date Prepared: 12/22/2009 1017

Analysis Batch: 220-34589
Prep Batch: 220-34526
Units: ug/Kg

Instrument ID: HP 6890/5975
Lab File ID: A9263.D
Initial Weight/Volume: 7.50 g
Final Weight/Volume: .5 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dimethyl phthalate	2670	1920	72	56 - 120	
Fluoranthene	2670	2120	80	57 - 120	
Fluorene	2670	1940	73	58 - 120	
Hexachlorobenzene	2670	1970	74	56 - 120	
Hexachlorobutadiene	2670	1790	67	54 - 120	
Hexachlorocyclopentadiene	2670	1550	58	50 - 120	
Hexachloroethane	2670	1670	63	52 - 120	
Indeno[1,2,3-cd]pyrene	2670	2940	110	37 - 120	
Isophorone	2670	1800	68	55 - 120	
N-Nitrosodi-n-propylamine	2670	1830	69	54 - 120	
N-Nitrosodiphenylamine	2670	1920	72	59 - 120	
Naphthalene	2670	1760	66	55 - 120	
Nitrobenzene	2670	1750	66	54 - 120	
Pentachlorophenol	2670	2260	85	52 - 120	
Phenanthrene	2670	1990	74	58 - 120	
Phenol	2670	1790	67	51 - 120	
Pyrene	2670	1900	71	54 - 121	
2,2'-oxybis[1-chloropropane]	2670	1760	66	51 - 120	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	70	37 - 120
2-Fluorobiphenyl	65	41 - 120
2-Fluorophenol	64	34 - 120
Nitrobenzene-d5	65	38 - 120
Phenol-d5	64	36 - 120
Terphenyl-d14	69	32 - 125

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34475

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 220-34475/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 1805
Date Prepared: 12/21/2009 1058

Analysis Batch: 220-34591
Prep Batch: 220-34475
Units: mg/Kg

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.25 g
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
Silver	0.40	U	0.080	0.40
Aluminum	11.53	J	4.0	20.0
Arsenic	0.40	U	0.080	0.40
Barium	0.40	U	0.12	0.40
Beryllium	0.40	U	0.12	0.40
Calcium	40.0	U	12.0	40.0
Cadmium	0.40	U	0.080	0.40
Cobalt	0.40	U	0.080	0.40
Chromium	0.239	J	0.16	0.80
Copper	0.80	U	0.080	0.80
Iron	20.19		6.4	20.0
Potassium	6.89	J	4.0	40.0
Magnesium	40.0	U	4.0	40.0
Manganese	0.293	J	0.16	1.0
Sodium	40.0	U	13.2	40.0
Nickel	0.40	U	0.080	0.40
Lead	0.208	J	0.080	0.40
Antimony	0.64	U	0.16	0.64
Selenium	0.80	U	0.24	0.80
Thallium	0.56	U	0.16	0.56
Vanadium	0.112	J	0.080	0.40
Zinc	4.0	U	0.40	4.0

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34475

Method: 6020
Preparation: 3050B

Lab Sample ID: LCS 220-34475/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 1815
Date Prepared: 12/21/2009 1058

Analysis Batch: 220-34591
Prep Batch: 220-34475
Units: mg/Kg

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	75.0	79.92	107	80 - 120	
Aluminum	1500	1576	105	80 - 120	
Arsenic	250	265.4	106	80 - 120	
Barium	75.0	75.58	101	80 - 120	
Beryllium	25.0	26.03	104	80 - 120	
Calcium	7500	7243	97	80 - 120	
Cadmium	75.0	77.02	103	80 - 120	
Cobalt	75.0	83.03	111	80 - 120	
Chromium	75.0	75.79	101	80 - 120	
Copper	75.0	80.74	108	80 - 120	
Iron	6250	5919	95	80 - 120	
Potassium	5000	5335	107	80 - 120	
Magnesium	3750	3717	99	80 - 120	
Manganese	50.0	53.90	108	80 - 120	
Sodium	7500	7524	100	80 - 120	
Nickel	75.0	79.55	106	80 - 120	
Lead	250	263.9	106	80 - 120	
Antimony	250	268.5	107	80 - 120	
Selenium	125	127.7	102	80 - 120	
Thallium	250	238.1	95	80 - 120	
Vanadium	75.0	80.36	107	80 - 120	
Zinc	75.0	78.97	105	80 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34494

Method: 6020
Preparation: 3010A

Lab Sample ID: MB 220-34494/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/23/2009 1209
Date Prepared: 12/21/2009 1135

Analysis Batch: 220-34609
Prep Batch: 220-34494
Units: ug/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result	Qual	MDL	RL
Silver	2.5	U	0.50	2.5
Aluminum	28.7	J	25.0	125
Arsenic	2.5	U	0.50	2.5
Barium	2.5	U	0.50	2.5
Beryllium	2.5	U	0.50	2.5
Calcium	60.2	J	50.0	250
Cadmium	2.5	U	0.50	2.5
Cobalt	2.5	U	0.50	2.5
Chromium	5.0	U	1.0	5.0
Copper	1.15	J	0.50	5.0
Iron	49.8	J	25.0	125
Potassium	74.2	J	25.0	250
Magnesium	250	U	25.0	250
Manganese	6.0	U	1.0	6.0
Sodium	81.7	J	50.0	250
Nickel	2.5	U	0.50	2.5
Lead	0.660	J	0.50	2.5
Antimony	1.05	J	1.0	4.0
Selenium	5.0	U	1.0	5.0
Thallium	3.5	U	1.0	3.5
Vanadium	2.5	U	0.50	2.5
Zinc	25.0	U	2.5	25.0

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34494

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 220-34494/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/23/2009 1241
Date Prepared: 12/21/2009 1135

Analysis Batch: 220-34609
Prep Batch: 220-34494
Units: ug/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	300	333	111	80 - 120	
Aluminum	6000	7750	129	80 - 120	N
Arsenic	1000	1090	109	80 - 120	
Barium	300	296	99	80 - 120	
Beryllium	100	111	111	80 - 120	
Calcium	30000	30720	102	80 - 120	
Cadmium	300	310	103	80 - 120	
Cobalt	300	340	113	80 - 120	
Chromium	300	307	102	80 - 120	
Copper	300	333	111	80 - 120	
Iron	25000	24490	98	80 - 120	
Potassium	20000	22410	112	80 - 120	
Magnesium	15000	16430	110	80 - 120	
Manganese	200	215	107	80 - 120	
Sodium	30000	32720	109	80 - 120	
Nickel	300	326	109	80 - 120	
Lead	1000	1040	104	80 - 120	
Antimony	1000	1080	108	80 - 120	
Selenium	500	537	107	80 - 120	
Thallium	1000	966	97	80 - 120	
Vanadium	300	323	108	80 - 120	
Zinc	300	327	109	80 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34525

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 220-34525/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 1611
Date Prepared: 12/22/2009 0938

Analysis Batch: 220-34591
Prep Batch: 220-34525
Units: mg/Kg

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 2.00 g
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
Silver	0.25	U	0.050	0.25
Aluminum	12.5	U	2.5	12.5
Arsenic	0.25	U	0.050	0.25
Barium	0.25	U	0.075	0.25
Beryllium	0.25	U	0.075	0.25
Calcium	25.0	U	7.5	25.0
Cadmium	0.25	U	0.050	0.25
Cobalt	0.25	U	0.050	0.25
Chromium	0.114	J	0.10	0.50
Copper	0.50	U	0.050	0.50
Iron	12.5	U	4.0	12.5
Potassium	2.93	J	2.5	25.0
Magnesium	25.0	U	2.5	25.0
Manganese	0.62	U	0.10	0.62
Sodium	9.34	J	8.2	25.0
Nickel	0.25	U	0.050	0.25
Lead	0.0510	J	0.050	0.25
Antimony	0.40	U	0.10	0.40
Selenium	0.50	U	0.15	0.50
Thallium	0.35	U	0.10	0.35
Vanadium	0.0530	J	0.050	0.25
Zinc	2.5	U	0.25	2.5

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Lab Control Sample - Batch: 220-34525

Method: 6020
Preparation: 3050B

Lab Sample ID: LCS 220-34525/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 1643
Date Prepared: 12/22/2009 0938

Analysis Batch: 220-34591
Prep Batch: 220-34525
Units: mg/Kg

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	75.0	76.13	102	80 - 120	
Aluminum	1500	1489	99	80 - 120	
Arsenic	250	252.6	101	80 - 120	
Barium	75.0	71.23	95	80 - 120	
Beryllium	25.0	24.05	96	80 - 120	
Calcium	7500	6956	93	80 - 120	
Cadmium	75.0	73.31	98	80 - 120	
Cobalt	75.0	78.05	104	80 - 120	
Chromium	75.0	71.77	96	80 - 120	
Copper	75.0	76.14	102	80 - 120	
Iron	6250	5653	90	80 - 120	
Potassium	5000	5081	102	80 - 120	
Magnesium	3750	3540	94	80 - 120	
Manganese	50.0	50.85	102	80 - 120	
Sodium	7500	7222	96	80 - 120	
Nickel	75.0	75.33	100	80 - 120	
Lead	250	250.1	100	80 - 120	
Antimony	250	251.1	100	80 - 120	
Selenium	125	125.3	100	80 - 120	
Thallium	250	227.2	91	80 - 120	
Vanadium	75.0	76.66	102	80 - 120	
Zinc	75.0	75.39	101	80 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34373

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 220-34373/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/17/2009 1609
Date Prepared: 12/17/2009 1058

Analysis Batch: 220-34405
Prep Batch: 220-34373
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.060	0.20

Lab Control Sample - Batch: 220-34373

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 220-34373/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/17/2009 1610
Date Prepared: 12/17/2009 1058

Analysis Batch: 220-34405
Prep Batch: 220-34373
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.98	100	80 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34334

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 220-34334/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/17/2009 1348
Date Prepared: 12/16/2009 1104

Analysis Batch: 220-34389
Prep Batch: 220-34334
Units: mg/Kg

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.050	U	0.0040	0.050

Lab Control Sample - Batch: 220-34334

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 220-34334/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/17/2009 1349
Date Prepared: 12/16/2009 1104

Analysis Batch: 220-34389
Prep Batch: 220-34334
Units: mg/Kg

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.412	99	80 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Method Blank - Batch: 220-34466

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 220-34466/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 1043
Date Prepared: 12/21/2009 0959

Analysis Batch: 220-34534
Prep Batch: 220-34466
Units: mg/Kg

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.050	U	0.0040	0.050

Lab Control Sample - Batch: 220-34466

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 220-34466/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2009 1044
Date Prepared: 12/21/2009 0959

Analysis Batch: 220-34534
Prep Batch: 220-34466
Units: mg/Kg

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.445	107	80 - 120	

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

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Duplicate - Batch: 220-34360

Method: Moisture
Preparation: N/A

Lab Sample ID: 220-11066-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/16/2009 1750
Date Prepared: N/A

Analysis Batch: 220-34360
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	18.9	20.2	7	20	
Percent Solids	81.1	79.8	2	20	

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

DATA REPORTING QUALIFIERS

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	LCS or LCSD exceeds the control limits
	*	Surrogate exceeds the control limit
	B	The analyte was found in an associated blank, as well as in the sample.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	MS or MSD exceeds the control limits
	*	Surrogate exceeds the control limit
	B	The analyte was found in an associated blank, as well as in the sample.
Metals		
	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-34565					
LCS 220-34565/16	Lab Control Sample	T	Water	8260B	
MB 220-34565/3	Method Blank	T	Water	8260B	
220-11066-14	FB-1	T	Water	8260B	
220-11066-15	FB-2	T	Water	8260B	
220-11066-16	FB-3	T	Water	8260B	
Analysis Batch:220-34649					
LCS 220-34649/2	Lab Control Sample	T	Solid	8260B	
MB 220-34649/3	Method Blank	T	Solid	8260B	
220-11066-7	PBL-1-30-E(9') F.D.	T	Solid	8260B	
220-11066-8	PBL-2-60-E(4')	T	Solid	8260B	
220-11066-9	PBL-2-60-E(4') F.D.	T	Solid	8260B	
220-11066-10	PBL-2-30-N(10')	T	Solid	8260B	
220-11066-11	PBL-2-30-N(10') F.D.	T	Solid	8260B	
220-11066-12	PBL-2-60-N(11')	T	Solid	8260B	
Analysis Batch:220-34652					
LCS 220-34652/2	Lab Control Sample	T	Solid	8260B	
MB 220-34652/3	Method Blank	T	Solid	8260B	
220-11066-6	PBL-1-30-E(9')	T	Solid	8260B	

Report Basis

T = Total

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 220-34329					
LCS 220-34329/2-A	Lab Control Sample	T	Water	3510C	
MB 220-34329/1-A	Method Blank	T	Water	3510C	
220-11066-14	FB-1	T	Water	3510C	
220-11066-15	FB-2	T	Water	3510C	
220-11066-16	FB-3	T	Water	3510C	
Prep Batch: 220-34351					
LCS 220-34351/2-A	Lab Control Sample	T	Solid	3541	
MB 220-34351/1-A	Method Blank	T	Solid	3541	
220-11066-1	PBL-5-10-E(4')	T	Solid	3541	
220-11066-2	PBL-5-2-W(7')	T	Solid	3541	
220-11066-3	PBL-5-5-N(6')	T	Solid	3541	
220-11066-4	PBL-5-10-N(5')	T	Solid	3541	
220-11066-5	PBL-5-10-S(2')	T	Solid	3541	
220-11066-7	PBL-1-30-E(9') F.D.	T	Solid	3541	
220-11066-8	PBL-2-60-E(4')	T	Solid	3541	
220-11066-9	PBL-2-60-E(4') F.D.	T	Solid	3541	
220-11066-10	PBL-2-30-N(10')	T	Solid	3541	
220-11066-11	PBL-2-30-N(10') F.D.	T	Solid	3541	
220-11066-12	PBL-2-60-N(11')	T	Solid	3541	
220-11066-12MS	Matrix Spike	T	Solid	3541	
220-11066-12MSD	Matrix Spike Duplicate	T	Solid	3541	
Prep Batch: 220-34355					
LCS 220-34355/2-A	Lab Control Sample	T	Solid	3541	
MB 220-34355/1-A	Method Blank	T	Solid	3541	
220-11066-13	PBL-8-60-S(12')	T	Solid	3541	
Analysis Batch:220-34488					
LCS 220-34329/2-A	Lab Control Sample	T	Water	8270C	220-34329
MB 220-34329/1-A	Method Blank	T	Water	8270C	220-34329
220-11066-1	PBL-5-10-E(4')	T	Solid	8270C	220-34351
220-11066-2	PBL-5-2-W(7')	T	Solid	8270C	220-34351
220-11066-3	PBL-5-5-N(6')	T	Solid	8270C	220-34351
220-11066-4	PBL-5-10-N(5')	T	Solid	8270C	220-34351
220-11066-5	PBL-5-10-S(2')	T	Solid	8270C	220-34351
220-11066-14	FB-1	T	Water	8270C	220-34329
220-11066-15	FB-2	T	Water	8270C	220-34329
220-11066-16	FB-3	T	Water	8270C	220-34329
Analysis Batch:220-34490					
LCS 220-34351/2-A	Lab Control Sample	T	Solid	8270C	220-34351
MB 220-34351/1-A	Method Blank	T	Solid	8270C	220-34351

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 220-34526					
LCS 220-34526/2-A	Lab Control Sample	T	Solid	3541	
MB 220-34526/1-A	Method Blank	T	Solid	3541	
220-11066-6	PBL-1-30-E(9')	T	Solid	3541	
Analysis Batch:220-34531					
LCS 220-34355/2-A	Lab Control Sample	T	Solid	8270C	220-34355
MB 220-34355/1-A	Method Blank	T	Solid	8270C	220-34355
220-11066-7	PBL-1-30-E(9') F.D.	T	Solid	8270C	220-34351
220-11066-8	PBL-2-60-E(4')	T	Solid	8270C	220-34351
220-11066-9	PBL-2-60-E(4') F.D.	T	Solid	8270C	220-34351
220-11066-10	PBL-2-30-N(10')	T	Solid	8270C	220-34351
220-11066-11	PBL-2-30-N(10') F.D.	T	Solid	8270C	220-34351
220-11066-12	PBL-2-60-N(11')	T	Solid	8270C	220-34351
220-11066-12MS	Matrix Spike	T	Solid	8270C	220-34351
220-11066-12MSD	Matrix Spike Duplicate	T	Solid	8270C	220-34351
220-11066-13	PBL-8-60-S(12')	T	Solid	8270C	220-34355
Analysis Batch:220-34589					
LCS 220-34526/2-A	Lab Control Sample	T	Solid	8270C	220-34526
MB 220-34526/1-A	Method Blank	T	Solid	8270C	220-34526
220-11066-6	PBL-1-30-E(9')	T	Solid	8270C	220-34526

Report Basis

T = Total

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-34334					
LCS 220-34334/2-A	Lab Control Sample	T	Solid	7471A	
MB 220-34334/1-A	Method Blank	T	Solid	7471A	
220-11066-5	PBL-5-10-S(2')	T	Solid	7471A	
220-11066-6	PBL-1-30-E(9')	T	Solid	7471A	
220-11066-7	PBL-1-30-E(9') F.D.	T	Solid	7471A	
220-11066-8	PBL-2-60-E(4')	T	Solid	7471A	
220-11066-9	PBL-2-60-E(4') F.D.	T	Solid	7471A	
220-11066-10	PBL-2-30-N(10')	T	Solid	7471A	
220-11066-11	PBL-2-30-N(10') F.D.	T	Solid	7471A	
220-11066-12	PBL-2-60-N(11')	T	Solid	7471A	
220-11066-13	PBL-8-60-S(12')	T	Solid	7471A	
Prep Batch: 220-34373					
LCS 220-34373/2-A	Lab Control Sample	T	Water	7470A	
MB 220-34373/1-A	Method Blank	T	Water	7470A	
220-11066-14	FB-1	T	Water	7470A	
220-11066-15	FB-2	T	Water	7470A	
220-11066-16	FB-3	T	Water	7470A	
Analysis Batch:220-34389					
LCS 220-34334/2-A	Lab Control Sample	T	Solid	7471A	220-34334
MB 220-34334/1-A	Method Blank	T	Solid	7471A	220-34334
220-11066-5	PBL-5-10-S(2')	T	Solid	7471A	220-34334
220-11066-6	PBL-1-30-E(9')	T	Solid	7471A	220-34334
220-11066-7	PBL-1-30-E(9') F.D.	T	Solid	7471A	220-34334
220-11066-8	PBL-2-60-E(4')	T	Solid	7471A	220-34334
220-11066-9	PBL-2-60-E(4') F.D.	T	Solid	7471A	220-34334
220-11066-10	PBL-2-30-N(10')	T	Solid	7471A	220-34334
220-11066-11	PBL-2-30-N(10') F.D.	T	Solid	7471A	220-34334
220-11066-12	PBL-2-60-N(11')	T	Solid	7471A	220-34334
220-11066-13	PBL-8-60-S(12')	T	Solid	7471A	220-34334
Analysis Batch:220-34405					
LCS 220-34373/2-A	Lab Control Sample	T	Water	7470A	220-34373
MB 220-34373/1-A	Method Blank	T	Water	7470A	220-34373
220-11066-14	FB-1	T	Water	7470A	220-34373
220-11066-15	FB-2	T	Water	7470A	220-34373
220-11066-16	FB-3	T	Water	7470A	220-34373

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-34466					
LCS 220-34466/2-A	Lab Control Sample	T	Solid	7471A	
MB 220-34466/1-A	Method Blank	T	Solid	7471A	
220-11066-1	PBL-5-10-E(4')	T	Solid	7471A	
220-11066-2	PBL-5-2-W(7')	T	Solid	7471A	
220-11066-3	PBL-5-5-N(6')	T	Solid	7471A	
220-11066-4	PBL-5-10-N(5')	T	Solid	7471A	
Prep Batch: 220-34475					
LCS 220-34475/2-A	Lab Control Sample	T	Solid	3050B	
MB 220-34475/1-A	Method Blank	T	Solid	3050B	
220-11066-1	PBL-5-10-E(4')	T	Solid	3050B	
220-11066-2	PBL-5-2-W(7')	T	Solid	3050B	
220-11066-3	PBL-5-5-N(6')	T	Solid	3050B	
220-11066-4	PBL-5-10-N(5')	T	Solid	3050B	
220-11066-5	PBL-5-10-S(2')	T	Solid	3050B	
220-11066-6	PBL-1-30-E(9')	T	Solid	3050B	
220-11066-7	PBL-1-30-E(9') F.D.	T	Solid	3050B	
220-11066-8	PBL-2-60-E(4')	T	Solid	3050B	
Prep Batch: 220-34494					
LCS 220-34494/2-A	Lab Control Sample	T	Water	3010A	
MB 220-34494/1-A	Method Blank	T	Water	3010A	
220-11066-14	FB-1	T	Water	3010A	
220-11066-15	FB-2	T	Water	3010A	
220-11066-16	FB-3	T	Water	3010A	
Prep Batch: 220-34525					
LCS 220-34525/2-A	Lab Control Sample	T	Solid	3050B	
MB 220-34525/1-A	Method Blank	T	Solid	3050B	
220-11066-9	PBL-2-60-E(4') F.D.	T	Solid	3050B	
220-11066-10	PBL-2-30-N(10')	T	Solid	3050B	
220-11066-11	PBL-2-30-N(10') F.D.	T	Solid	3050B	
220-11066-12	PBL-2-60-N(11')	T	Solid	3050B	
220-11066-13	PBL-8-60-S(12')	T	Solid	3050B	
Analysis Batch:220-34534					
LCS 220-34466/2-A	Lab Control Sample	T	Solid	7471A	220-34466
MB 220-34466/1-A	Method Blank	T	Solid	7471A	220-34466
220-11066-1	PBL-5-10-E(4')	T	Solid	7471A	220-34466
220-11066-2	PBL-5-2-W(7')	T	Solid	7471A	220-34466
220-11066-3	PBL-5-5-N(6')	T	Solid	7471A	220-34466
220-11066-4	PBL-5-10-N(5')	T	Solid	7471A	220-34466

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:220-34591					
LCS 220-34475/2-A	Lab Control Sample	T	Solid	6020	220-34475
MB 220-34475/1-A	Method Blank	T	Solid	6020	220-34475
LCS 220-34525/2-A	Lab Control Sample	T	Solid	6020	220-34525
MB 220-34525/1-A	Method Blank	T	Solid	6020	220-34525
220-11066-1	PBL-5-10-E(4')	T	Solid	6020	220-34475
220-11066-2	PBL-5-2-W(7')	T	Solid	6020	220-34475
220-11066-3	PBL-5-5-N(6')	T	Solid	6020	220-34475
220-11066-4	PBL-5-10-N(5')	T	Solid	6020	220-34475
220-11066-5	PBL-5-10-S(2')	T	Solid	6020	220-34475
220-11066-6	PBL-1-30-E(9')	T	Solid	6020	220-34475
220-11066-7	PBL-1-30-E(9') F.D.	T	Solid	6020	220-34475
220-11066-8	PBL-2-60-E(4')	T	Solid	6020	220-34475
220-11066-9	PBL-2-60-E(4') F.D.	T	Solid	6020	220-34525
220-11066-10	PBL-2-30-N(10')	T	Solid	6020	220-34525
220-11066-11	PBL-2-30-N(10') F.D.	T	Solid	6020	220-34525
220-11066-12	PBL-2-60-N(11')	T	Solid	6020	220-34525
220-11066-13	PBL-8-60-S(12')	T	Solid	6020	220-34525
Analysis Batch:220-34609					
LCS 220-34494/2-A	Lab Control Sample	T	Water	6020	220-34494
MB 220-34494/1-A	Method Blank	T	Water	6020	220-34494
220-11066-14	FB-1	T	Water	6020	220-34494
220-11066-15	FB-2	T	Water	6020	220-34494
220-11066-16	FB-3	T	Water	6020	220-34494

Report Basis

T = Total

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:220-34360					
220-11066-1	PBL-5-10-E(4')	T	Solid	Moisture	
220-11066-1DU	Duplicate	T	Solid	Moisture	
220-11066-2	PBL-5-2-W(7')	T	Solid	Moisture	
220-11066-3	PBL-5-5-N(6')	T	Solid	Moisture	
220-11066-4	PBL-5-10-N(5')	T	Solid	Moisture	
220-11066-5	PBL-5-10-S(2')	T	Solid	Moisture	
220-11066-6	PBL-1-30-E(9')	T	Solid	Moisture	
220-11066-7	PBL-1-30-E(9') F.D.	T	Solid	Moisture	
220-11066-8	PBL-2-60-E(4')	T	Solid	Moisture	
220-11066-9	PBL-2-60-E(4') F.D.	T	Solid	Moisture	
220-11066-10	PBL-2-30-N(10')	T	Solid	Moisture	
220-11066-11	PBL-2-30-N(10') F.D.	T	Solid	Moisture	
220-11066-12	PBL-2-60-N(11')	T	Solid	Moisture	
220-11066-13	PBL-8-60-S(12')	T	Solid	Moisture	

Report Basis
T = Total

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

Laboratory Chronicle

Lab ID: 220-11066-1 **Client ID:** PBL-5-10-E(4')

Sample Date/Time: 12/14/2009 10:05 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	220-11066-A-1-A		220-34488	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-1-A		220-34488	220-34351	12/21/2009 17:02	1	TAL CT	SJ
P:3050B	220-11066-A-1-D		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	220-11066-A-1-D		220-34591	220-34475	12/22/2009 18:39	1	TAL CT	NP
P:7471A	220-11066-A-1-B		220-34534	220-34466	12/21/2009 09:59	1	TAL CT	JFV
A:7471A	220-11066-A-1-B		220-34534	220-34466	12/22/2009 10:56	1	TAL CT	JFV
A:Moisture	220-11066-A-1		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-1 DU **Client ID:** PBL-5-10-E(4')

Sample Date/Time: 12/14/2009 10:05 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	220-11066-A-1 DU		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-2 **Client ID:** PBL-5-2-W(7')

Sample Date/Time: 12/14/2009 12:15 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	220-11066-A-2-A		220-34488	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-2-A		220-34488	220-34351	12/21/2009 17:30	1	TAL CT	SJ
P:3050B	220-11066-A-2-D		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	220-11066-A-2-D		220-34591	220-34475	12/22/2009 18:43	1	TAL CT	NP
P:7471A	220-11066-A-2-B		220-34534	220-34466	12/21/2009 09:59	1	TAL CT	JFV
A:7471A	220-11066-A-2-B		220-34534	220-34466	12/22/2009 10:58	1	TAL CT	JFV
A:Moisture	220-11066-A-2		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-3 **Client ID:** PBL-5-5-N(6')

Sample Date/Time: 12/14/2009 12:35 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	220-11066-A-3-A		220-34488	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-3-A		220-34488	220-34351	12/21/2009 17:58	1	TAL CT	SJ
P:3050B	220-11066-A-3-D		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	220-11066-A-3-D		220-34591	220-34475	12/22/2009 18:46	1	TAL CT	NP
P:7471A	220-11066-A-3-B		220-34534	220-34466	12/21/2009 09:59	1	TAL CT	JFV
A:7471A	220-11066-A-3-B		220-34534	220-34466	12/22/2009 10:59	1	TAL CT	JFV
A:Moisture	220-11066-A-3		220-34360		12/16/2009 17:50	1	TAL CT	BC

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

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Lab ID: 220-11066-4 **Client ID:** PBL-5-10-N(5')

Sample Date/Time: 12/14/2009 12:45 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	220-11066-A-4-A		220-34488	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-4-A		220-34488	220-34351	12/21/2009 18:26	1	TAL CT	SJ
P:3050B	220-11066-A-4-D		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	220-11066-A-4-D		220-34591	220-34475	12/22/2009 18:50	1	TAL CT	NP
P:7471A	220-11066-A-4-B		220-34534	220-34466	12/21/2009 09:59	1	TAL CT	JFV
A:7471A	220-11066-A-4-B		220-34534	220-34466	12/22/2009 11:00	1	TAL CT	JFV
A:Moisture	220-11066-A-4		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-5 **Client ID:** PBL-5-10-S(2')

Sample Date/Time: 12/14/2009 14:15 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	220-11066-A-5-B		220-34488	220-34351	12/16/2009 15:22	10	TAL CT	JC
A:8270C	220-11066-A-5-B		220-34488	220-34351	12/21/2009 18:55	10	TAL CT	SJ
P:3050B	220-11066-A-5-D		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	220-11066-A-5-D		220-34591	220-34475	12/22/2009 18:53	1	TAL CT	NP
P:7471A	220-11066-A-5-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	220-11066-A-5-A		220-34389	220-34334	12/17/2009 14:07	1	TAL CT	JFV
A:Moisture	220-11066-A-5		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-6 **Client ID:** PBL-1-30-E(9')

Sample Date/Time: 12/15/2009 09:10 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-C-6		220-34652		12/24/2009 18:10	5	TAL CT	DH
A:8260B	220-11066-C-6		220-34652		12/24/2009 18:10	5	TAL CT	DH
P:3541	220-11066-A-6-E		220-34589	220-34526	12/22/2009 10:17	20	TAL CT	TF
A:8270C	220-11066-A-6-E		220-34589	220-34526	12/23/2009 10:44	20	TAL CT	SJ
P:3050B	220-11066-A-6-D		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	220-11066-A-6-D		220-34591	220-34475	12/22/2009 18:57	1	TAL CT	NP
P:7471A	220-11066-A-6-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	220-11066-A-6-A		220-34389	220-34334	12/17/2009 14:08	1	TAL CT	JFV
A:Moisture	220-11066-A-6		220-34360		12/16/2009 17:50	1	TAL CT	BC

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

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Lab ID: 220-11066-7 **Client ID: PBL-1-30-E(9') F.D.**

Sample Date/Time: 12/15/2009 09:10 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-C-7		220-34649		12/24/2009 01:51	5	TAL CT	DH
A:8260B	220-11066-C-7		220-34649		12/24/2009 01:51	5	TAL CT	DH
P:3541	220-11066-A-7-B		220-34531	220-34351	12/16/2009 15:22	10	TAL CT	JC
A:8270C	220-11066-A-7-B		220-34531	220-34351	12/22/2009 15:42	10	TAL CT	SJ
P:3050B	220-11066-A-7-D		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	220-11066-A-7-D		220-34591	220-34475	12/22/2009 19:00	1	TAL CT	NP
P:7471A	220-11066-A-7-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	220-11066-A-7-A		220-34389	220-34334	12/17/2009 14:10	1	TAL CT	JFV
A:Moisture	220-11066-A-7		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-8 **Client ID: PBL-2-60-E(4')**

Sample Date/Time: 12/15/2009 11:20 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-C-8		220-34649		12/23/2009 23:22	1	TAL CT	DH
A:8260B	220-11066-C-8		220-34649		12/23/2009 23:22	1	TAL CT	DH
P:3541	220-11066-A-8-B		220-34531	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-8-B		220-34531	220-34351	12/22/2009 16:13	1	TAL CT	SJ
P:3050B	220-11066-A-8-D		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	220-11066-A-8-D		220-34591	220-34475	12/22/2009 19:15	1	TAL CT	NP
P:7471A	220-11066-A-8-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	220-11066-A-8-A		220-34389	220-34334	12/17/2009 14:11	1	TAL CT	JFV
A:Moisture	220-11066-A-8		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-9 **Client ID: PBL-2-60-E(4') F.D.**

Sample Date/Time: 12/15/2009 11:20 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-C-9		220-34649		12/23/2009 23:47	1	TAL CT	DH
A:8260B	220-11066-C-9		220-34649		12/23/2009 23:47	1	TAL CT	DH
P:3541	220-11066-A-9-B		220-34531	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-9-B		220-34531	220-34351	12/22/2009 16:43	1	TAL CT	SJ
P:3050B	220-11066-A-9-C		220-34591	220-34525	12/22/2009 09:38	1	TAL CT	JFV
A:6020	220-11066-A-9-C		220-34591	220-34525	12/22/2009 16:14	1	TAL CT	NP
P:7471A	220-11066-A-9-A		220-34389	220-34334	12/16/2009 11:04	5	TAL CT	JFV
A:7471A	220-11066-A-9-A		220-34389	220-34334	12/17/2009 14:21	5	TAL CT	JFV
A:Moisture	220-11066-A-9		220-34360		12/16/2009 17:50	1	TAL CT	BC

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

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Lab ID: 220-11066-10 **Client ID: PBL-2-30-N(10')**

Sample Date/Time: 12/15/2009 12:00 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-C-10		220-34649		12/24/2009 00:12	1	TAL CT	DH
A:8260B	220-11066-C-10		220-34649		12/24/2009 00:12	1	TAL CT	DH
P:3541	220-11066-A-10-B		220-34531	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-10-B		220-34531	220-34351	12/22/2009 17:14	1	TAL CT	SJ
P:3050B	220-11066-A-10-C		220-34591	220-34525	12/22/2009 09:38	1	TAL CT	JFV
A:6020	220-11066-A-10-C		220-34591	220-34525	12/22/2009 16:18	1	TAL CT	NP
P:7471A	220-11066-A-10-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	220-11066-A-10-A		220-34389	220-34334	12/17/2009 14:16	1	TAL CT	JFV
A:Moisture	220-11066-A-10		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-11 **Client ID: PBL-2-30-N(10') F.D.**

Sample Date/Time: 12/15/2009 12:00 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-C-11		220-34649		12/24/2009 00:37	1	TAL CT	DH
A:8260B	220-11066-C-11		220-34649		12/24/2009 00:37	1	TAL CT	DH
P:3541	220-11066-A-11-B		220-34531	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-11-B		220-34531	220-34351	12/22/2009 17:44	1	TAL CT	SJ
P:3050B	220-11066-A-11-C		220-34591	220-34525	12/22/2009 09:38	1	TAL CT	JFV
A:6020	220-11066-A-11-C		220-34591	220-34525	12/22/2009 16:21	1	TAL CT	NP
P:7471A	220-11066-A-11-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	220-11066-A-11-A		220-34389	220-34334	12/17/2009 14:17	1	TAL CT	JFV
A:Moisture	220-11066-A-11		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-12 **Client ID: PBL-2-60-N(11')**

Sample Date/Time: 12/15/2009 12:15 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-C-12		220-34649		12/24/2009 01:01	1	TAL CT	DH
A:8260B	220-11066-C-12		220-34649		12/24/2009 01:01	1	TAL CT	DH
P:3541	220-11066-A-12-B		220-34531	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-12-B		220-34531	220-34351	12/22/2009 18:15	1	TAL CT	SJ
P:3050B	220-11066-A-12-E		220-34591	220-34525	12/22/2009 09:38	1	TAL CT	JFV
A:6020	220-11066-A-12-E		220-34591	220-34525	12/22/2009 16:25	1	TAL CT	NP
P:7471A	220-11066-A-12-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	220-11066-A-12-A		220-34389	220-34334	12/17/2009 14:18	1	TAL CT	JFV
A:Moisture	220-11066-A-12		220-34360		12/16/2009 17:50	1	TAL CT	BC

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

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Lab ID: 220-11066-12 MS **Client ID:** PBL-2-60-N(11')

Sample Date/Time: 12/15/2009 12:15 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	220-11066-A-12-C MS		220-34531	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-12-C MS		220-34531	220-34351	12/22/2009 18:45	1	TAL CT	SJ

Lab ID: 220-11066-12 MSD **Client ID:** PBL-2-60-N(11')

Sample Date/Time: 12/15/2009 12:15 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	220-11066-A-12-D MSD		220-34531	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	220-11066-A-12-D MSD		220-34531	220-34351	12/22/2009 19:15	1	TAL CT	SJ

Lab ID: 220-11066-13 **Client ID:** PBL-8-60-S(12')

Sample Date/Time: 12/15/2009 12:30 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	220-11066-A-13-B		220-34531	220-34355	12/16/2009 16:43	1	TAL CT	JC
A:8270C	220-11066-A-13-B		220-34531	220-34355	12/22/2009 15:11	1	TAL CT	SJ
P:3050B	220-11066-A-13-C		220-34591	220-34525	12/22/2009 09:38	1	TAL CT	JFV
A:6020	220-11066-A-13-C		220-34591	220-34525	12/22/2009 16:29	1	TAL CT	NP
P:7471A	220-11066-A-13-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	220-11066-A-13-A		220-34389	220-34334	12/17/2009 14:19	1	TAL CT	JFV
A:Moisture	220-11066-A-13		220-34360		12/16/2009 17:50	1	TAL CT	BC

Lab ID: 220-11066-14 **Client ID:** FB-1

Sample Date/Time: 12/15/2009 15:00 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-D-14		220-34565		12/21/2009 19:27	1	TAL CT	BK
A:8260B	220-11066-D-14		220-34565		12/21/2009 19:27	1	TAL CT	BK
P:3510C	220-11066-A-14-A		220-34488	220-34329	12/16/2009 10:10	1	TAL CT	TF
A:8270C	220-11066-A-14-A		220-34488	220-34329	12/21/2009 15:36	1	TAL CT	SJ
P:3010A	220-11066-C-14-B		220-34609	220-34494	12/21/2009 11:35	1	TAL CT	JFV
A:6020	220-11066-C-14-B		220-34609	220-34494	12/23/2009 12:13	1	TAL CT	NP
P:7470A	220-11066-C-14-A		220-34405	220-34373	12/17/2009 10:58	1	TAL CT	JFV
A:7470A	220-11066-C-14-A		220-34405	220-34373	12/17/2009 16:36	1	TAL CT	JFV

Client: Shaw Environmental & Infrastructure, Inc Job Number: 220-11066-1

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Lab ID: 220-11066-15 **Client ID:** FB-2

Sample Date/Time: 12/15/2009 14:25 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-D-15		220-34565		12/21/2009 19:54	1	TAL CT	BK
A:8260B	220-11066-D-15		220-34565		12/21/2009 19:54	1	TAL CT	BK
P:3510C	220-11066-B-15-A		220-34488	220-34329	12/16/2009 10:10	1	TAL CT	TF
A:8270C	220-11066-B-15-A		220-34488	220-34329	12/21/2009 16:04	1	TAL CT	SJ
P:3010A	220-11066-C-15-B		220-34609	220-34494	12/21/2009 11:35	1	TAL CT	JFV
A:6020	220-11066-C-15-B		220-34609	220-34494	12/23/2009 12:16	1	TAL CT	NP
P:7470A	220-11066-C-15-A		220-34405	220-34373	12/17/2009 10:58	1	TAL CT	JFV
A:7470A	220-11066-C-15-A		220-34405	220-34373	12/17/2009 16:36	1	TAL CT	JFV

Lab ID: 220-11066-16 **Client ID:** FB-3

Sample Date/Time: 12/15/2009 15:00 Received Date/Time: 12/15/2009 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-11066-E-16		220-34565		12/21/2009 20:21	1	TAL CT	BK
A:8260B	220-11066-E-16		220-34565		12/21/2009 20:21	1	TAL CT	BK
P:3510C	220-11066-A-16-A		220-34488	220-34329	12/16/2009 10:10	1	TAL CT	TF
A:8270C	220-11066-A-16-A		220-34488	220-34329	12/21/2009 16:33	1	TAL CT	SJ
P:3010A	220-11066-C-16-B		220-34609	220-34494	12/21/2009 11:35	1	TAL CT	JFV
A:6020	220-11066-C-16-B		220-34609	220-34494	12/23/2009 12:20	1	TAL CT	NP
P:7470A	220-11066-C-16-A		220-34405	220-34373	12/17/2009 11:00	1	TAL CT	JFV
A:7470A	220-11066-C-16-A		220-34405	220-34373	12/17/2009 16:37	1	TAL CT	JFV

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 220-34565/3		220-34565		12/21/2009 13:09	1	TAL CT	BK
A:8260B	MB 220-34565/3		220-34565		12/21/2009 13:09	1	TAL CT	BK
P:5030B	MB 220-34649/3		220-34649		12/23/2009 16:54	1	TAL CT	DH
A:8260B	MB 220-34649/3		220-34649		12/23/2009 16:54	1	TAL CT	DH
P:5030B	MB 220-34652/3		220-34652		12/24/2009 09:10	1	TAL CT	DH
A:8260B	MB 220-34652/3		220-34652		12/24/2009 09:10	1	TAL CT	DH
P:3541	MB 220-34351/1-A		220-34490	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	MB 220-34351/1-A		220-34490	220-34351	12/21/2009 08:44	1	TAL CT	SJ
P:3510C	MB 220-34329/1-A		220-34488	220-34329	12/16/2009 10:10	1	TAL CT	TF
A:8270C	MB 220-34329/1-A		220-34488	220-34329	12/21/2009 10:53	1	TAL CT	SJ
P:3541	MB 220-34355/1-A		220-34531	220-34355	12/16/2009 16:43	1	TAL CT	JC
A:8270C	MB 220-34355/1-A		220-34531	220-34355	12/22/2009 09:28	1	TAL CT	SJ
P:3541	MB 220-34526/1-A		220-34589	220-34526	12/22/2009 10:17	1	TAL CT	TF
A:8270C	MB 220-34526/1-A		220-34589	220-34526	12/23/2009 08:21	1	TAL CT	SJ
P:3050B	MB 220-34525/1-A		220-34591	220-34525	12/22/2009 09:38	1	TAL CT	JFV
A:6020	MB 220-34525/1-A		220-34591	220-34525	12/22/2009 16:11	1	TAL CT	NP
P:3050B	MB 220-34475/1-A		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	MB 220-34475/1-A		220-34591	220-34475	12/22/2009 18:05	1	TAL CT	NP
P:3010A	MB 220-34494/1-A		220-34609	220-34494	12/21/2009 11:35	1	TAL CT	JFV
A:6020	MB 220-34494/1-A		220-34609	220-34494	12/23/2009 12:09	1	TAL CT	NP
P:7470A	MB 220-34373/1-A		220-34405	220-34373	12/17/2009 10:58	1	TAL CT	JFV
A:7470A	MB 220-34373/1-A		220-34405	220-34373	12/17/2009 16:09	1	TAL CT	JFV
P:7471A	MB 220-34334/1-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	MB 220-34334/1-A		220-34389	220-34334	12/17/2009 13:48	1	TAL CT	JFV
P:7471A	MB 220-34466/1-A		220-34534	220-34466	12/21/2009 09:59	1	TAL CT	JFV
A:7471A	MB 220-34466/1-A		220-34534	220-34466	12/22/2009 10:43	1	TAL CT	JFV

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Laboratory Chronicle

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 220-34565/16		220-34565		12/21/2009 11:48	1	TAL CT	BK
A:8260B	LCS 220-34565/16		220-34565		12/21/2009 11:48	1	TAL CT	BK
P:5030B	LCS 220-34649/2		220-34649		12/23/2009 16:19	1	TAL CT	DH
A:8260B	LCS 220-34649/2		220-34649		12/23/2009 16:19	1	TAL CT	DH
P:5030B	LCS 220-34652/2		220-34652		12/24/2009 08:30	1	TAL CT	DH
A:8260B	LCS 220-34652/2		220-34652		12/24/2009 08:30	1	TAL CT	DH
P:3541	LCS 220-34351/2-A		220-34490	220-34351	12/16/2009 15:22	1	TAL CT	JC
A:8270C	LCS 220-34351/2-A		220-34490	220-34351	12/21/2009 09:14	1	TAL CT	SJ
P:3510C	LCS 220-34329/2-A		220-34488	220-34329	12/16/2009 10:10	1	TAL CT	TF
A:8270C	LCS 220-34329/2-A		220-34488	220-34329	12/21/2009 11:20	1	TAL CT	SJ
P:3541	LCS 220-34355/2-A		220-34531	220-34355	12/16/2009 16:43	1	TAL CT	JC
A:8270C	LCS 220-34355/2-A		220-34531	220-34355	12/22/2009 09:59	1	TAL CT	SJ
P:3541	LCS 220-34526/2-A		220-34589	220-34526	12/22/2009 10:17	1	TAL CT	TF
A:8270C	LCS 220-34526/2-A		220-34589	220-34526	12/23/2009 08:50	1	TAL CT	SJ
P:3050B	LCS 220-34525/2-A		220-34591	220-34525	12/22/2009 09:38	1	TAL CT	JFV
A:6020	LCS 220-34525/2-A		220-34591	220-34525	12/22/2009 16:43	1	TAL CT	NP
P:3050B	LCS 220-34475/2-A		220-34591	220-34475	12/21/2009 10:58	1	TAL CT	BC
A:6020	LCS 220-34475/2-A		220-34591	220-34475	12/22/2009 18:15	1	TAL CT	NP
P:3010A	LCS 220-34494/2-A		220-34609	220-34494	12/21/2009 11:35	1	TAL CT	JFV
A:6020	LCS 220-34494/2-A		220-34609	220-34494	12/23/2009 12:41	1	TAL CT	NP
P:7470A	LCS 220-34373/2-A		220-34405	220-34373	12/17/2009 10:58	1	TAL CT	JFV
A:7470A	LCS 220-34373/2-A		220-34405	220-34373	12/17/2009 16:10	1	TAL CT	JFV
P:7471A	LCS 220-34334/2-A		220-34389	220-34334	12/16/2009 11:04	1	TAL CT	JFV
A:7471A	LCS 220-34334/2-A		220-34389	220-34334	12/17/2009 13:49	1	TAL CT	JFV
P:7471A	LCS 220-34466/2-A		220-34534	220-34466	12/21/2009 09:59	1	TAL CT	JFV
A:7471A	LCS 220-34466/2-A		220-34534	220-34466	12/22/2009 10:44	1	TAL CT	JFV

Lab References:

TAL CT = TestAmerica Connecticut

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-VMS ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PBL-1-30-E(9')	220-11066-6	76	88	68	56
PBL-1-30-E(9') F.D.	220-11066-7	73	86	80	65
PBL-2-60-E(4')	220-11066-8	41 *	37 *	43 *	33 *
PBL-2-60-E(4') F.D.	220-11066-9	33 *	30 *	35 *	28 *
PBL-2-30-N(10')	220-11066-10	75	79	64	88
PBL-2-30-N(10') F.D.	220-11066-11	75	78	72	108
PBL-2-60-N(11')	220-11066-12	85	80	81	65
	MB 220-34649/3	95	98	95	108
	MB 220-34652/3	93	95	95	103
	LCS 220-34649/2	87	93	91	91
	LCS 220-34652/2	86	93	88	90

	QC LIMITS
DBFM = Dibromofluoromethane	59-123
DCA = 1,2-Dichloroethane-d4 (Surr)	59-132
TOL = Toluene-d8 (Surr)	50-118
BFB = 4-Bromofluorobenzene	34-124

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-VMS ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
FB-1	220-11066-14	95	93	84	89
FB-2	220-11066-15	96	95	85	91
FB-3	220-11066-16	96	96	84	89
	MB 220-34565/3	97	102	84	90
	LCS 220-34565/16	97	101	84	90

	QC LIMITS
DBFM = Dibromofluoromethane	68-132
DCA = 1,2-Dichloroethane-d4 (Surr)	65-136
TOL = Toluene-d8 (Surr)	63-127
BFB = 4-Bromofluorobenzene	51-142

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V8899.D

Lab ID: LCS 220-34565/16 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	9.37	94	33-150	
Vinyl chloride	10.0	10.4	104	61-150	
Bromomethane	10.0	10.1	101	47-150	
Chloroethane	10.0	10.9	109	49-150	
1,1-Dichloroethene	10.0	11.7	117	65-142	
Acetone	10.0	13.6	136	41-150	
Carbon disulfide	10.0	10.6	106	55-150	
Methylene Chloride	10.0	10.5	105	56-138	
trans-1,2-Dichloroethene	10.0	9.94	99	58-120	
1,1-Dichloroethane	10.0	10.2	102	75-130	
cis-1,2-Dichloroethene	10.0	9.76	98	65-120	
Methyl Ethyl Ketone	10.0	12.9	129	42-150	
Chloroform	10.0	10.6	106	77-126	
1,1,1-Trichloroethane	10.0	10.4	104	73-135	
Carbon tetrachloride	10.0	10.5	105	69-135	
Benzene	10.0	9.81	98	66-131	
1,2-Dichloroethane	10.0	10.6	106	73-127	
Trichloroethene	10.0	9.78	98	60-122	
1,2-Dichloropropane	10.0	9.89	99	69-129	
Bromodichloromethane	10.0	10.0	100	78-120	
methyl isobutyl ketone	10.0	11.2	112	70-122	
Toluene	10.0	8.79	88	66-120	
trans-1,3-Dichloropropene	10.0	10.6	106	73-120	
1,1,2-Trichloroethane	10.0	10.4	104	76-125	
Tetrachloroethene	10.0	8.53	85	50-120	
Dibromochloromethane	10.0	9.54	95	75-120	
Chlorobenzene	10.0	9.05	91	68-120	
Ethylbenzene	10.0	9.08	91	62-120	
Xylenes, Total	30.0	26.7	89	58-120	
Styrene	10.0	9.01	90	47-120	
Bromoform	10.0	10.7	107	66-120	
1,1,2,2-Tetrachloroethane	10.0	10.8	108	75-124	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: O5066.D

Lab ID: LCS 220-34649/2 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloromethane	20.0	25.8	129	69-143	
Vinyl chloride	20.0	24.4	122	70-137	
Bromomethane	20.0	24.6	123	83-150	
Chloroethane	20.0	22.2	111	54-150	
1,1-Dichloroethene	20.0	24.7	123	80-144	
Acetone	20.0	13.9 J	69	80-150	*
Carbon disulfide	20.0	22.8	114	80-142	
Methylene Chloride	20.0	23.0	115	68-147	
trans-1,2-Dichloroethene	20.0	20.7	103	50-149	
1,1-Dichloroethane	20.0	20.7	104	78-130	
cis-1,2-Dichloroethene	20.0	20.9	105	80-122	
Methyl Ethyl Ketone	20.0	22.2	111	80-150	
Chloroform	20.0	22.0	110	74-142	
1,1,1-Trichloroethane	20.0	20.5	103	80-136	
Carbon tetrachloride	20.0	22.7	114	80-137	
Benzene	20.0	21.0	105	80-133	
1,2-Dichloroethane	20.0	21.0	105	76-130	
Trichloroethene	20.0	20.8	104	71-129	
1,2-Dichloropropane	20.0	20.2	101	78-127	
Bromodichloromethane	20.0	19.9	100	74-126	
methyl isobutyl ketone	20.0	21.6	108	74-136	
Toluene	20.0	20.9	104	65-121	
trans-1,3-Dichloropropene	20.0	20.9	105	61-126	
1,1,2-Trichloroethane	20.0	21.4	107	59-146	
Tetrachloroethene	20.0	19.8	99	67-120	
Dibromochloromethane	20.0	19.9	100	71-120	
Chlorobenzene	20.0	21.0	105	73-120	
Ethylbenzene	20.0	20.4	102	72-120	
Xylenes, Total	60.0	62.5	104	71-120	
Styrene	20.0	20.9	104	59-120	
Bromoform	20.0	20.8	104	65-120	
1,1,2,2-Tetrachloroethane	20.0	21.9	110	76-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: O5094.D

Lab ID: LCS 220-34652/2 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloromethane	20.0	23.8	119	69-143	
Vinyl chloride	20.0	22.8	114	70-137	
Bromomethane	20.0	24.1	120	83-150	
Chloroethane	20.0	21.3	106	54-150	
1,1-Dichloroethene	20.0	23.7	118	80-144	
Acetone	20.0	15.7 J	79	80-150	*
Carbon disulfide	20.0	21.4	107	80-142	
Methylene Chloride	20.0	21.7	109	68-147	
trans-1,2-Dichloroethene	20.0	19.8	99	50-149	
1,1-Dichloroethane	20.0	20.0	100	78-130	
cis-1,2-Dichloroethene	20.0	20.0	100	80-122	
Methyl Ethyl Ketone	20.0	18.9	95	80-150	
Chloroform	20.0	20.9	105	74-142	
1,1,1-Trichloroethane	20.0	19.6	98	80-136	
Carbon tetrachloride	20.0	18.3	92	80-137	
Benzene	20.0	19.9	99	80-133	
1,2-Dichloroethane	20.0	19.9	100	76-130	
Trichloroethene	20.0	19.2	96	71-129	
1,2-Dichloropropane	20.0	19.4	97	78-127	
Bromodichloromethane	20.0	17.9	90	74-126	
methyl isobutyl ketone	20.0	20.0	100	74-136	
Toluene	20.0	19.4	97	65-121	
trans-1,3-Dichloropropene	20.0	20.2	101	61-126	
1,1,2-Trichloroethane	20.0	20.0	100	59-146	
Tetrachloroethene	20.0	18.7	93	67-120	
Dibromochloromethane	20.0	18.7	94	71-120	
Chlorobenzene	20.0	19.4	97	73-120	
Ethylbenzene	20.0	19.6	98	72-120	
Xylenes, Total	60.0	57.8	96	71-120	
Styrene	20.0	19.5	98	59-120	
Bromoform	20.0	18.2	91	65-120	
1,1,2,2-Tetrachloroethane	20.0	20.7	103	76-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: V8902.D Lab Sample ID: MB 220-34565/3

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

Instrument ID: MSV Date Analyzed: 12/21/2009 13:09

GC Column: RTX-VMS ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 220-34565/16	V8899.D	12/21/2009 11:48
FB-1	220-11066-14	V8916.D	12/21/2009 19:27
FB-2	220-11066-15	V8917.D	12/21/2009 19:54
FB-3	220-11066-16	V8918.D	12/21/2009 20:21

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: O5067.D Lab Sample ID: MB 220-34649/3

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

Instrument ID: MSO Date Analyzed: 12/23/2009 16:54

GC Column: RTX-VMS ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 220-34649/2	O5066.D	12/23/2009 16:19
PBL-2-60-E(4')	220-11066-8	O5082.D	12/23/2009 23:22
PBL-2-60-E(4') F.D.	220-11066-9	O5083.D	12/23/2009 23:47
PBL-2-30-N(10')	220-11066-10	O5084.D	12/24/2009 00:12
PBL-2-30-N(10') F.D.	220-11066-11	O5085.D	12/24/2009 00:37
PBL-2-60-N(11')	220-11066-12	O5086.D	12/24/2009 01:01
PBL-1-30-E(9') F.D.	220-11066-7	O5088.D	12/24/2009 01:51

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: O5095.D Lab Sample ID: MB 220-34652/3

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

Instrument ID: MSO Date Analyzed: 12/24/2009 09:10

GC Column: RTX-VMS ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 220-34652/2	O5094.D	12/24/2009 08:30
PBL-1-30-E(9')	220-11066-6	O5116.D	12/24/2009 18:10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: OB556.D BFB Injection Date: 12/23/2009

Instrument ID: MSO BFB Injection Time: 10:32

Analysis Batch No.: 34635

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.9	
75	30.0 - 60.0 % of mass 95	52.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	85.6	
175	5.0 - 9.0 % of mass 174	6.6	(7.7)1
176	95.0 - 101.0 % of mass 174	86.4	(100.9)1
177	5.0 - 9.0 % of mass 176	5.9	(6.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 220-34635/1	O5057.D	12/23/2009	10:57
	IC 220-34635/2	O5058.D	12/23/2009	11:46
	IC 220-34635/3	O5059.D	12/23/2009	12:11
	IC 220-34635/4	O5060.D	12/23/2009	12:36
	IC 220-34635/5	O5062.D	12/23/2009	13:26
	IC 220-34635/6	O5063.D	12/23/2009	14:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: OB557.D BFB Injection Date: 12/23/2009

Instrument ID: MSO BFB Injection Time: 14:38

Analysis Batch No.: 34649

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.3	
75	30.0 - 60.0 % of mass 95	57.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.4	
175	5.0 - 9.0 % of mass 174	6.0	(7.7)1
176	95.0 - 101.0 % of mass 174	77.7	(100.4)1
177	5.0 - 9.0 % of mass 176	5.5	(7.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 220-34649/1	O5065.D	12/23/2009	15:41
	LCS 220-34649/2	O5066.D	12/23/2009	16:19
	MB 220-34649/3	O5067.D	12/23/2009	16:54
PBL-2-60-E(4')	220-11066-8	O5082.D	12/23/2009	23:22
PBL-2-60-E(4') F.D.	220-11066-9	O5083.D	12/23/2009	23:47
PBL-2-30-N(10')	220-11066-10	O5084.D	12/24/2009	00:12
PBL-2-30-N(10') F.D.	220-11066-11	O5085.D	12/24/2009	00:37
PBL-2-60-N(11')	220-11066-12	O5086.D	12/24/2009	01:01
PBL-1-30-E(9') F.D.	220-11066-7	O5088.D	12/24/2009	01:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: OB558.D BFB Injection Date: 12/24/2009

Instrument ID: MSO BFB Injection Time: 07:29

Analysis Batch No.: 34652

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.9	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	73.6	
175	5.0 - 9.0 % of mass 174	5.4	(7.3)1
176	95.0 - 101.0 % of mass 174	71.5	(97.1)1
177	5.0 - 9.0 % of mass 176	4.9	(6.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 220-34652/1	O5093.D	12/24/2009	07:53
	LCS 220-34652/2	O5094.D	12/24/2009	08:30
	MB 220-34652/3	O5095.D	12/24/2009	09:10
PBL-1-30-E(9')	220-11066-6	O5116.D	12/24/2009	18:10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: VB871.D BFB Injection Date: 12/07/2009

Instrument ID: MSV BFB Injection Time: 13:41

Analysis Batch No.: 34085

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	49.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.2	(0.2)1
174	50.0 - 120.00 % of mass 95	90.5	
175	5.0 - 9.0 % of mass 174	6.5	(7.2)1
176	95.0 - 101.0 % of mass 174	88.1	(97.4)1
177	5.0 - 9.0 % of mass 176	5.7	(6.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 220-34085/1	V8457.D	12/07/2009	15:46
	IC 220-34085/2	V8458.D	12/07/2009	17:00
	IC 220-34085/3	V8459.D	12/07/2009	17:33
	IC 220-34085/4	V8460.D	12/07/2009	17:59
	IC 220-34085/5	V8461.D	12/07/2009	18:26
	IC 220-34085/6	V8468.D	12/07/2009	21:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: VB885.D BFB Injection Date: 12/21/2009

Instrument ID: MSV BFB Injection Time: 11:02

Analysis Batch No.: 34565

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.2	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	79.6	
175	5.0 - 9.0 % of mass 174	5.8	(7.3)1
176	95.0 - 101.0 % of mass 174	75.8	(95.3)1
177	5.0 - 9.0 % of mass 176	4.9	(6.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 220-34565/2	V8898.D	12/21/2009	11:11
	LCS 220-34565/16	V8899.D	12/21/2009	11:48
	MB 220-34565/3	V8902.D	12/21/2009	13:09
FB-1	220-11066-14	V8916.D	12/21/2009	19:27
FB-2	220-11066-15	V8917.D	12/21/2009	19:54
FB-3	220-11066-16	V8918.D	12/21/2009	20:21

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34649/1 Date Analyzed: 12/23/2009 15:41

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm)

Lab File ID (Standard): O5065.D Heated Purge: (Y/N) Y

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		258325	4.01	205324	7.36	104951	9.45
UPPER LIMIT		516650	4.51	410648	7.86	209902	9.95
LOWER LIMIT		129163	3.51	102662	6.86	52476	8.95
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 220-34649/2		250762	4.02	203736	7.36	106418	9.44
MB 220-34649/3		257905	4.01	212924	7.36	94553	9.45
220-11066-8	PBL-2-60-E(4')	238240	4.02	142995	7.36	24068*	9.44
220-11066-9	PBL-2-60-E(4') F.D.	236394	4.02	133342	7.36	17721*	9.45
220-11066-10	PBL-2-30-N(10')	260857	4.01	208172	7.36	98669	9.45
220-11066-11	PBL-2-30-N(10') F.D.	293015	4.01	227900	7.36	112858	9.45
220-11066-12	PBL-2-60-N(11')	247638	4.01	204728	7.35	95914	9.44
220-11066-7	PBL-1-30-E(9') F.D.	272873	4.01	217623	7.35	118094	9.44

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34652/1 Date Analyzed: 12/24/2009 07:53

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm)

Lab File ID (Standard): O5093.D Heated Purge: (Y/N) Y

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		271588	4.01	216777	7.35	107778	9.44
UPPER LIMIT		543176	4.51	433554	7.85	215556	9.94
LOWER LIMIT		135794	3.51	108389	6.85	53889	8.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 220-34652/2		269046	4.01	218273	7.35	110892	9.44
MB 220-34652/3		256074	4.00	205336	7.35	90508	9.44
220-11066-6	PBL-1-30-E(9')	256105	4.00	204191	7.35	101421	9.44

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34565/2 Date Analyzed: 12/21/2009 11:11

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm)

Lab File ID (Standard): V8898.D Heated Purge: (Y/N) N

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1202552	5.48	808024	9.25	286545	11.49
UPPER LIMIT		2405104	5.98	1616048	9.75	573090	11.99
LOWER LIMIT		601276	4.98	404012	8.75	143273	10.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 220-34565/16		1214348	5.49	817566	9.25	302047	11.49
MB 220-34565/3		1168990	5.49	791249	9.25	280419	11.49
220-11066-14	FB-1	1399697	5.48	926448	9.25	333130	11.49
220-11066-15	FB-2	1339382	5.49	898247	9.25	317167	11.49
220-11066-16	FB-3	1320817	5.49	893447	9.25	320963	11.49

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') | Lab Sample ID: 220-11066-6

Matrix: Solid | Lab File ID: O5116.D

Analysis Method: 8260B | Date Collected: 12/15/2009 09:10

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 18:10

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 15.4 | Level: (low/med) Low

Analysis Batch No.: 34652 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	30	U *	30	2.1
74-87-3	Chloromethane	30	U	30	4.6
75-01-4	Vinyl chloride	30	U	30	1.4
74-83-9	Bromomethane	30	U	30	12
75-00-3	Chloroethane	30	U	30	5.8
75-69-4	Trichlorofluoromethane	30	U	30	0.89
75-35-4	1,1-Dichloroethene	30	U	30	3.4
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	30	U	30	4.7
67-64-1	Acetone	24	J *	120	13
75-15-0	Carbon disulfide	20	J	30	2.4
79-20-9	Methyl acetate	30	U	30	2.6
75-09-2	Methylene Chloride	10	J B	120	6.4
156-60-5	trans-1,2-Dichloroethene	30	U	30	2.3
1634-04-4	Methyl tert-butyl ether	30	U	30	1.2
75-34-3	1,1-Dichloroethane	30	U	30	1.8
156-59-2	cis-1,2-Dichloroethene	30	U	30	2.2
78-93-3	Methyl Ethyl Ketone	59	U	59	9.4
67-66-3	Chloroform	30	U	30	2.0
71-55-6	1,1,1-Trichloroethane	30	U	30	3.1
110-82-7	Cyclohexane	30	U	30	4.1
56-23-5	Carbon tetrachloride	30	U	30	5.6
71-43-2	Benzene	23	J	30	3.4
107-06-2	1,2-Dichloroethane	30	U	30	3.4
79-01-6	Trichloroethene	30	U	30	4.8
108-87-2	Methylcyclohexane	11	J	30	2.0
78-87-5	1,2-Dichloropropane	30	U	30	4.0
75-27-4	Bromodichloromethane	30	U	30	1.8
10061-01-5	cis-1,3-Dichloropropene	30	U	30	3.3
108-10-1	methyl isobutyl ketone	30	U	30	3.3
108-88-3	Toluene	28	J B	30	0.44
10061-02-6	trans-1,3-Dichloropropene	30	U	30	1.6
79-00-5	1,1,2-Trichloroethane	30	U	30	2.2
127-18-4	Tetrachloroethene	30	U	30	4.8
591-78-6	2-Hexanone	59	U	59	7.1
124-48-1	Dibromochloromethane	30	U	30	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') | Lab Sample ID: 220-11066-6

Matrix: Solid | Lab File ID: O5116.D

Analysis Method: 8260B | Date Collected: 12/15/2009 09:10

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 18:10

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 15.4 | Level: (low/med) Low

Analysis Batch No.: 34652 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	30	U	30	4.5
108-90-7	Chlorobenzene	30	U	30	3.5
100-41-4	Ethylbenzene	1100		30	4.1
1330-20-7	Xylenes, Total	920		30	2.9
100-42-5	Styrene	70		30	0.89
75-25-2	Bromoform	30	U	30	3.6
98-82-8	Isopropylbenzene	250		30	1.1
79-34-5	1,1,2,2-Tetrachloroethane	30	U	30	3.1
541-73-1	1,3-Dichlorobenzene	30	U	30	1.2
106-46-7	1,4-Dichlorobenzene	30	U	30	4.0
95-50-1	1,2-Dichlorobenzene	30	U	30	1.4
96-12-8	1,2-Dibromo-3-Chloropropane	59	U	59	27
120-82-1	1,2,4-Trichlorobenzene	30	U	30	4.4

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88	59-132	
460-00-4	4-Bromofluorobenzene	56	34-124	
1868-53-7	Dibromofluoromethane	76	59-123	
2037-26-5	Toluene-d8 (Surr)	68	50-118	

TestAmerica

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095092.b\O5116.D
Lab Smp Id: 220-11066-C-6 Client Smp ID: PBL-1-30-E(9')
Inj Date : 24-DEC-2009 18:10 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : 220-11066-C-6
Misc Info : : ;;; ; 8260 ; 5 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095092.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:47 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 100
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.003	4.007	(1.000)	256105	25.0000	
	15 Carbon Disulfide	76	1.577	1.581	(0.394)	63285	3.42242	17
	20 Methylene Chloride	84	1.843	1.838	(0.461)	9006	1.76313	9
	21 Acetone	43	1.863	1.867	(0.466)	11790	4.07636	20
$	41 Dibromofluoromethane	111	3.096	3.090	(0.773)	95250	18.9373	19
	52 Benzene	78	3.500	3.504	(0.874)	81218	3.95165	20
$	55 1,2-Dichloroethane-d4	65	3.648	3.652	(0.911)	128708	22.0473	22
	59 Methyl Cyclohexane	83	4.210	4.204	(1.052)	18236	1.88737	9
*	75 Chlorobenzene-d5	117	7.345	7.349	(1.000)	204191	25.0000	
	76 Toluene	91	5.895	5.900	(0.803)	100242	4.75745	24
$	77 Toluene-d8	98	5.846	5.850	(0.796)	267982	17.0835	17
	90 Ethylbenzene	106	7.414	7.418	(1.009)	1200558	179.226	900
	91 Xylene (total)mp	106	7.552	7.556	(1.028)	679763	82.3120	410
	92 Xylene (total)o	106	7.926	7.930	(1.079)	558835	72.0760	360
	93 Styrene	104	7.985	7.990	(1.087)	146748	11.8226	59
*	95 1,4-Dichlorobenzene-d4	152	9.435	9.439	(1.000)	101421	25.0000	
	96 Isopropylbenzene	105	8.222	8.226	(0.871)	885175	42.9246	210
	99 4-Ethyltoluene	105	8.685	8.699	(0.921)	3014671	146.692	730
	102 n-Propylbenzene	91	8.587	8.591	(0.910)	711420	26.1755	130
	105 1,3,5-Trimethylbenzene	105	8.774	8.778	(0.930)	624656	36.5510	180
	107 1,2,4-Trimethylbenzene	105	9.109	9.113	(0.966)	3434689	207.378	1000(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
109 4-Isopropyltoluene	119	9.336	9.340	(0.990)	205255	11.5443	58
114 1,4-Diethylbenzene	119	9.652	9.656	(1.023)	171666	19.5981	98
118 1,2,4,5-Tetramethylbenzene	119	10.361	10.356	(1.098)	452136	33.3325	170
123 Naphthalene	128	11.377	11.391	(1.206)	17449706	2230.30	11000(A)
$ 125 Bromofluorobenzene	95	8.459	8.463	(0.897)	92339	14.0950	14
M 127 Xylene (total)	100				1238598	154.388	770

QC Flag Legend

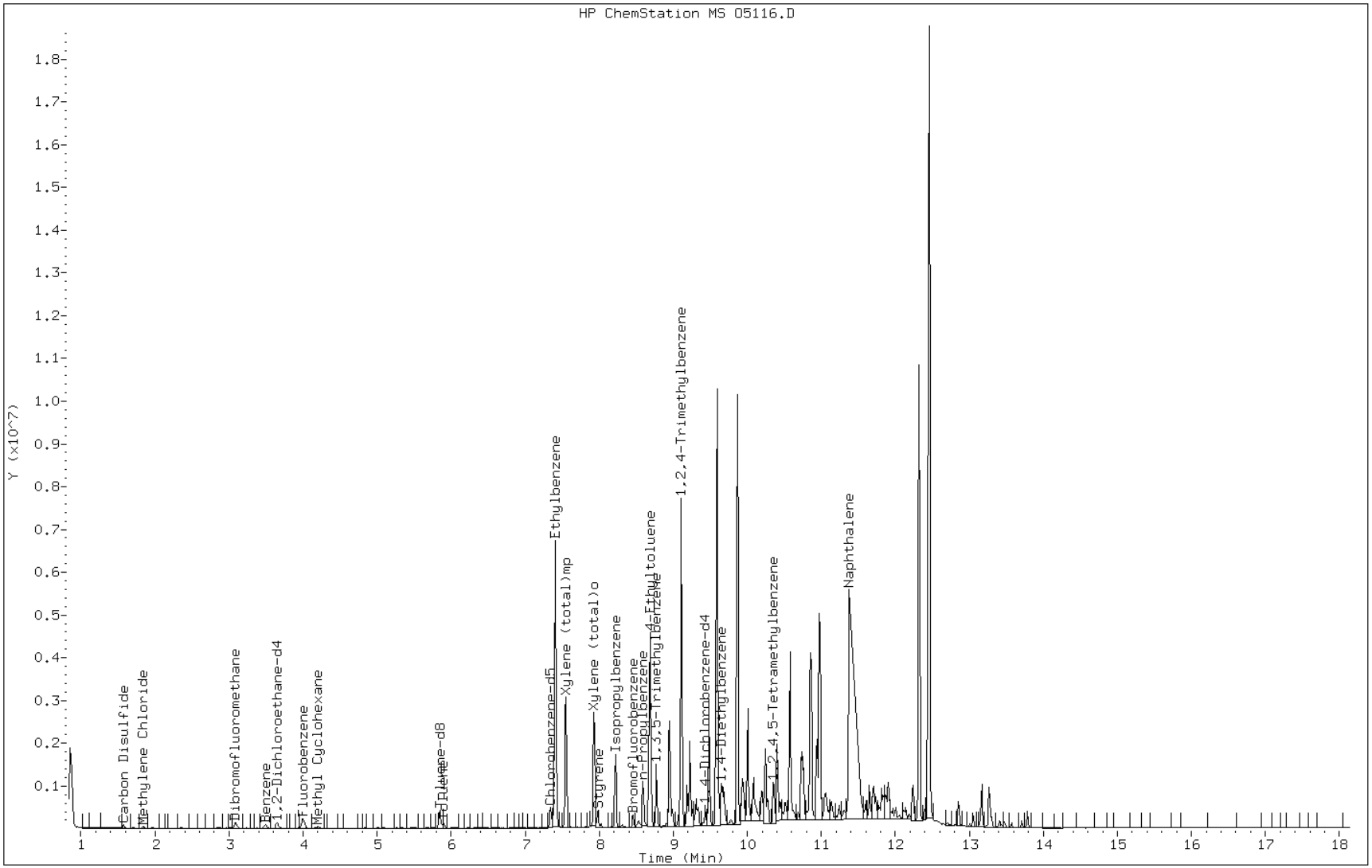
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: O5116.D

Date: 24-DEC-2009 18:10

Client ID: PBL-1-30-E(9') Instrument: mso.i

Sample Info: 220-11066-C-6 Operator: D. HUMBERT



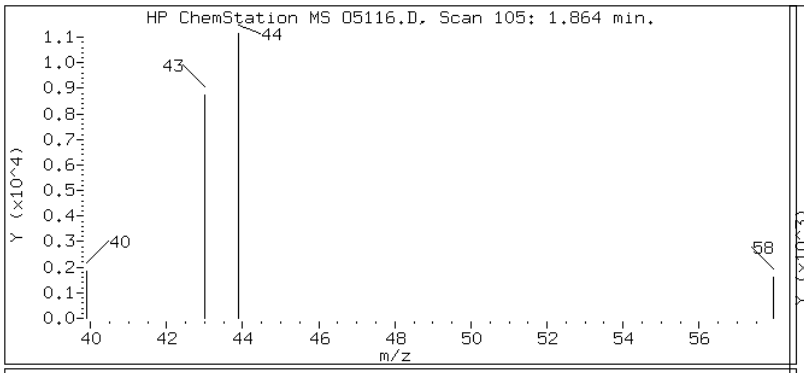
Data File: O5116.D

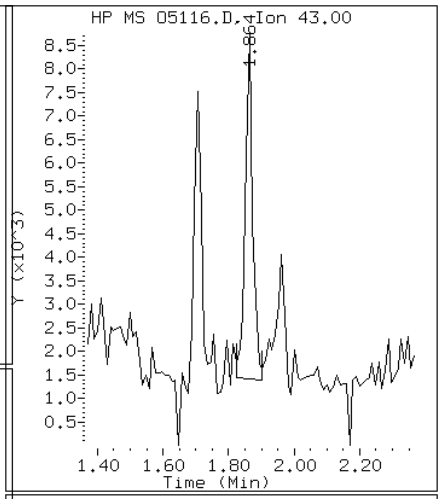
Date: 24-DEC-2009 18:10

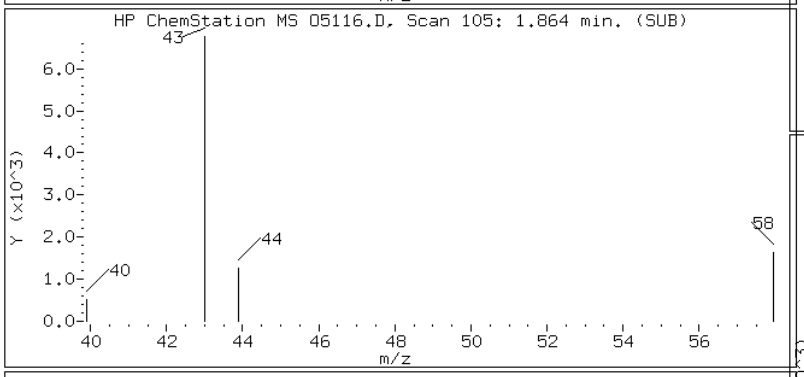
Client ID: PBL-1-30-E(9') Instrument: mso.i

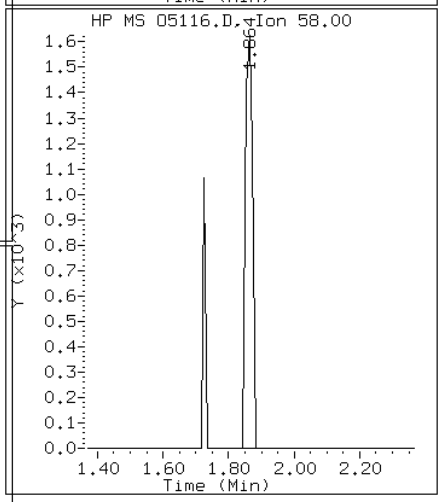
Sample Info: 220-11066-C-6 Operator: D. HUMBERT

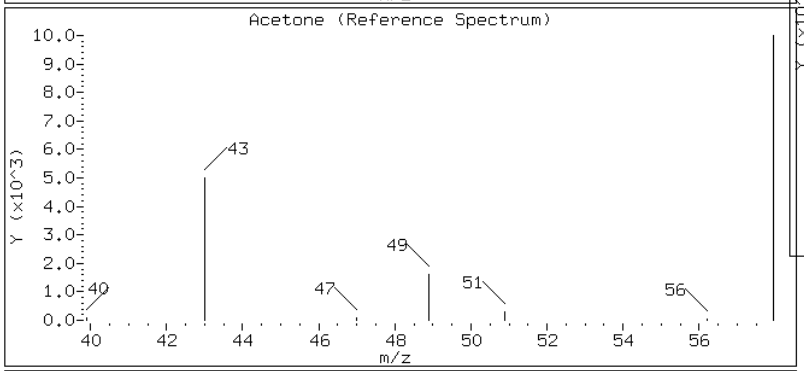
21 Acetone

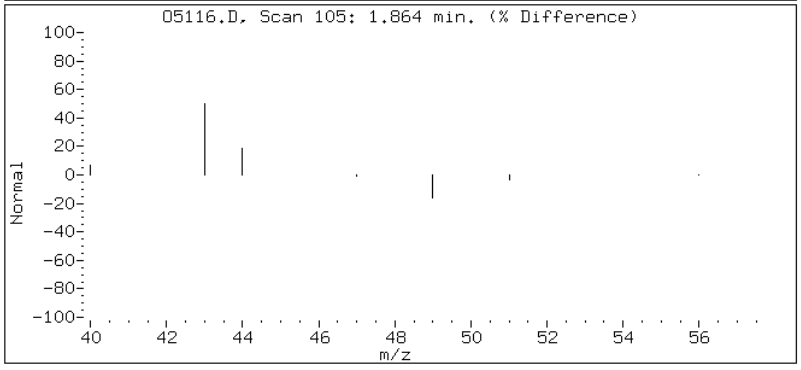












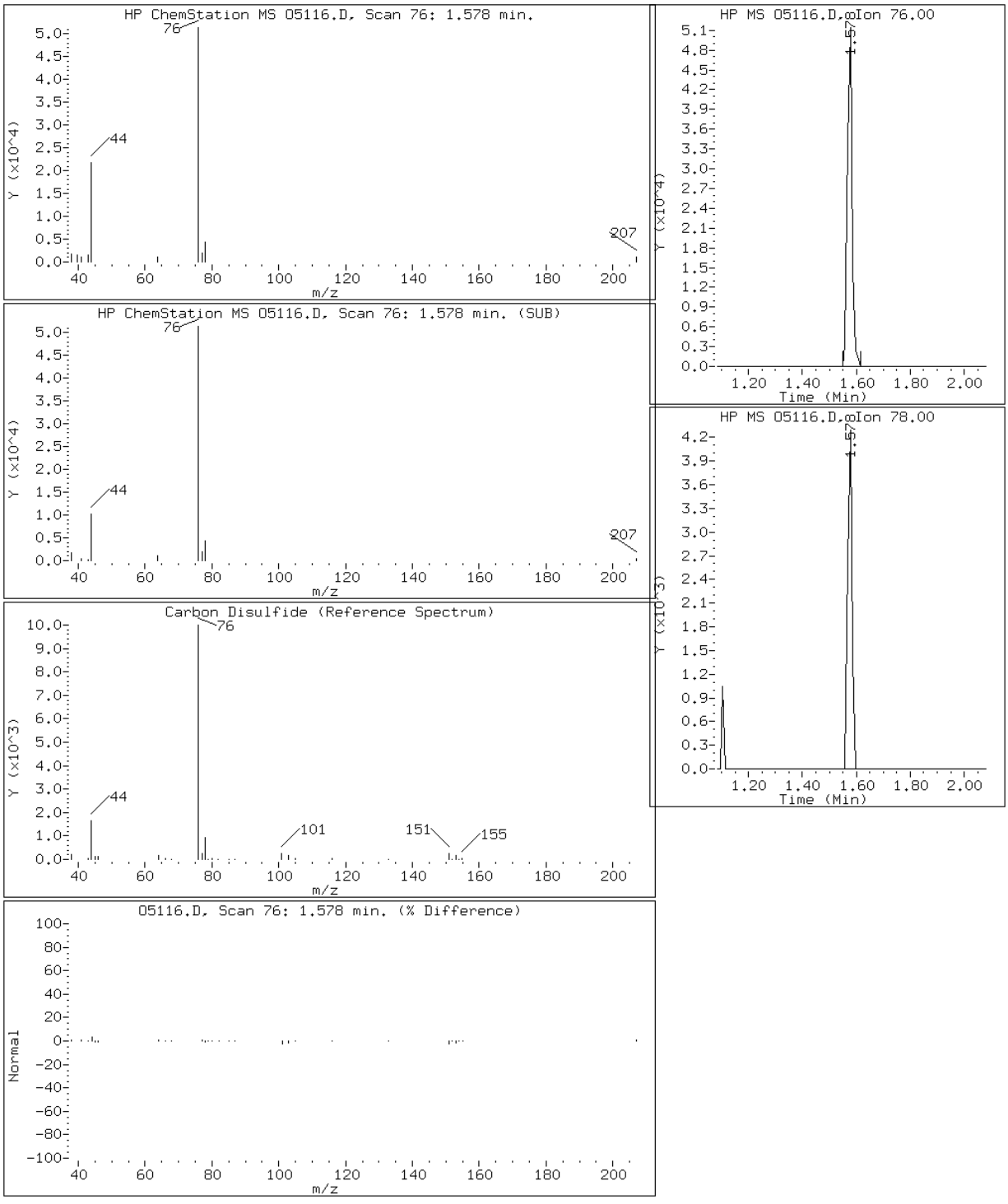
Data File: O5116.D

Date: 24-DEC-2009 18:10

Client ID: PBL-1-30-E(9') Instrument: mso.i

Sample Info: 220-11066-C-6 Operator: D. HUMBERT

15 Carbon Disulfide



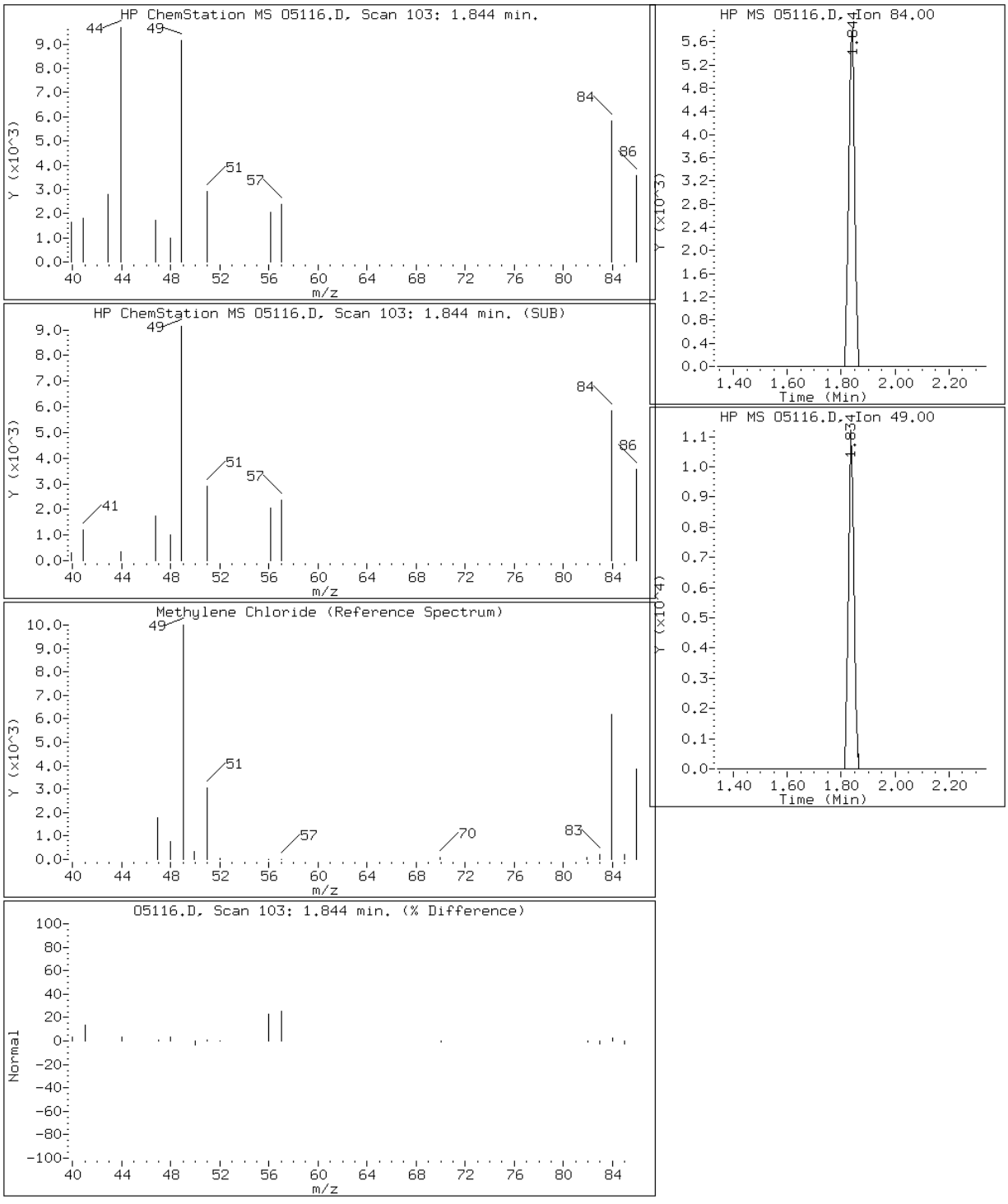
Data File: O5116.D

Date: 24-DEC-2009 18:10

Client ID: PBL-1-30-E(9') Instrument: mso.i

Sample Info: 220-11066-C-6 Operator: D. HUMBERT

20 Methylene Chloride



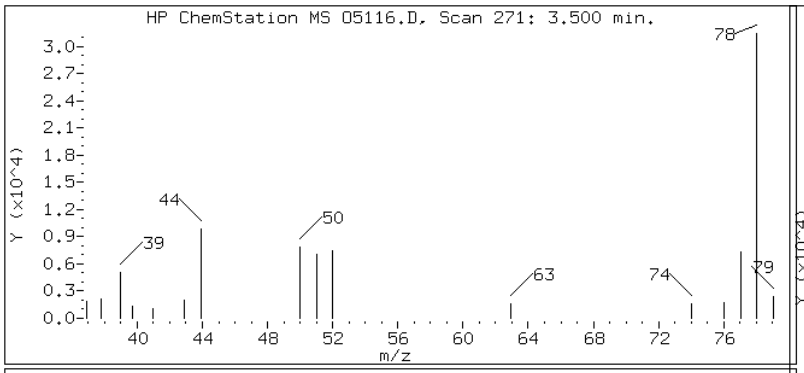
Data File: O5116.D

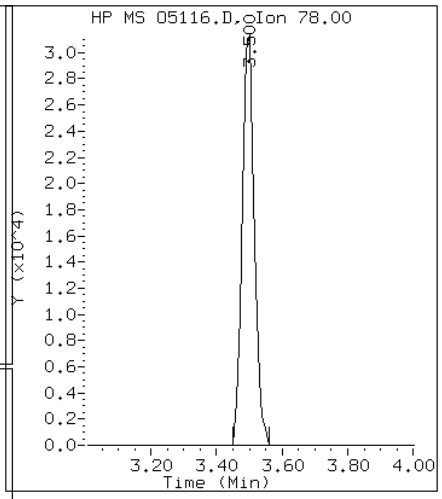
Date: 24-DEC-2009 18:10

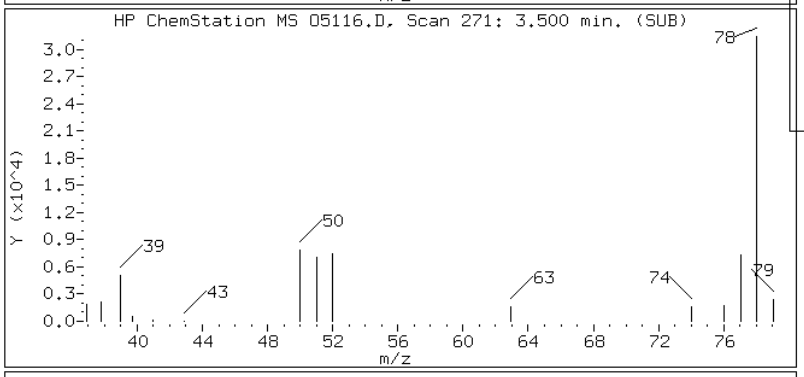
Client ID: PBL-1-30-E(9') Instrument: mso.i

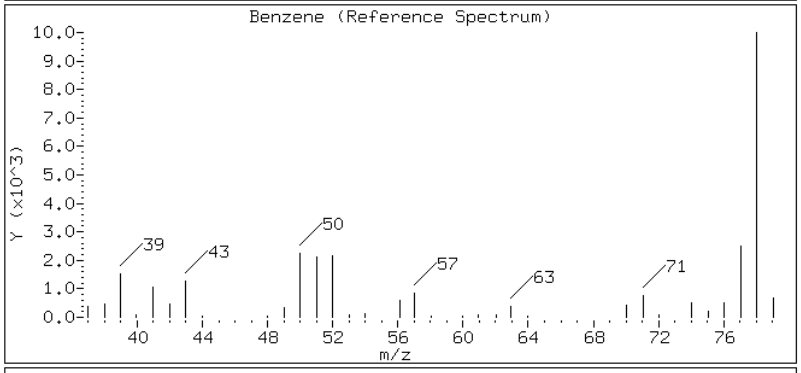
Sample Info: 220-11066-C-6 Operator: D. HUMBERT

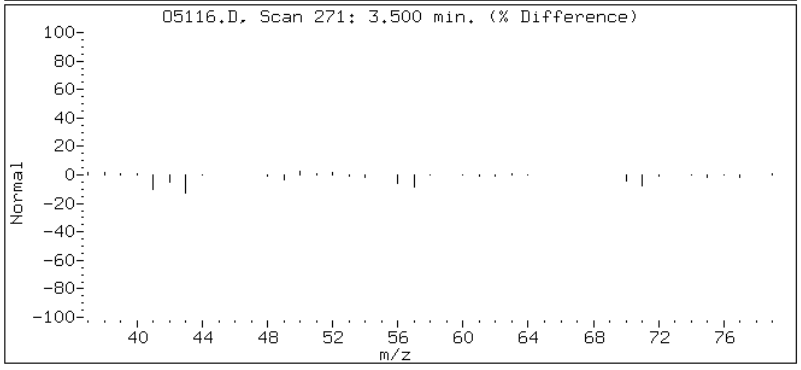
52 Benzene











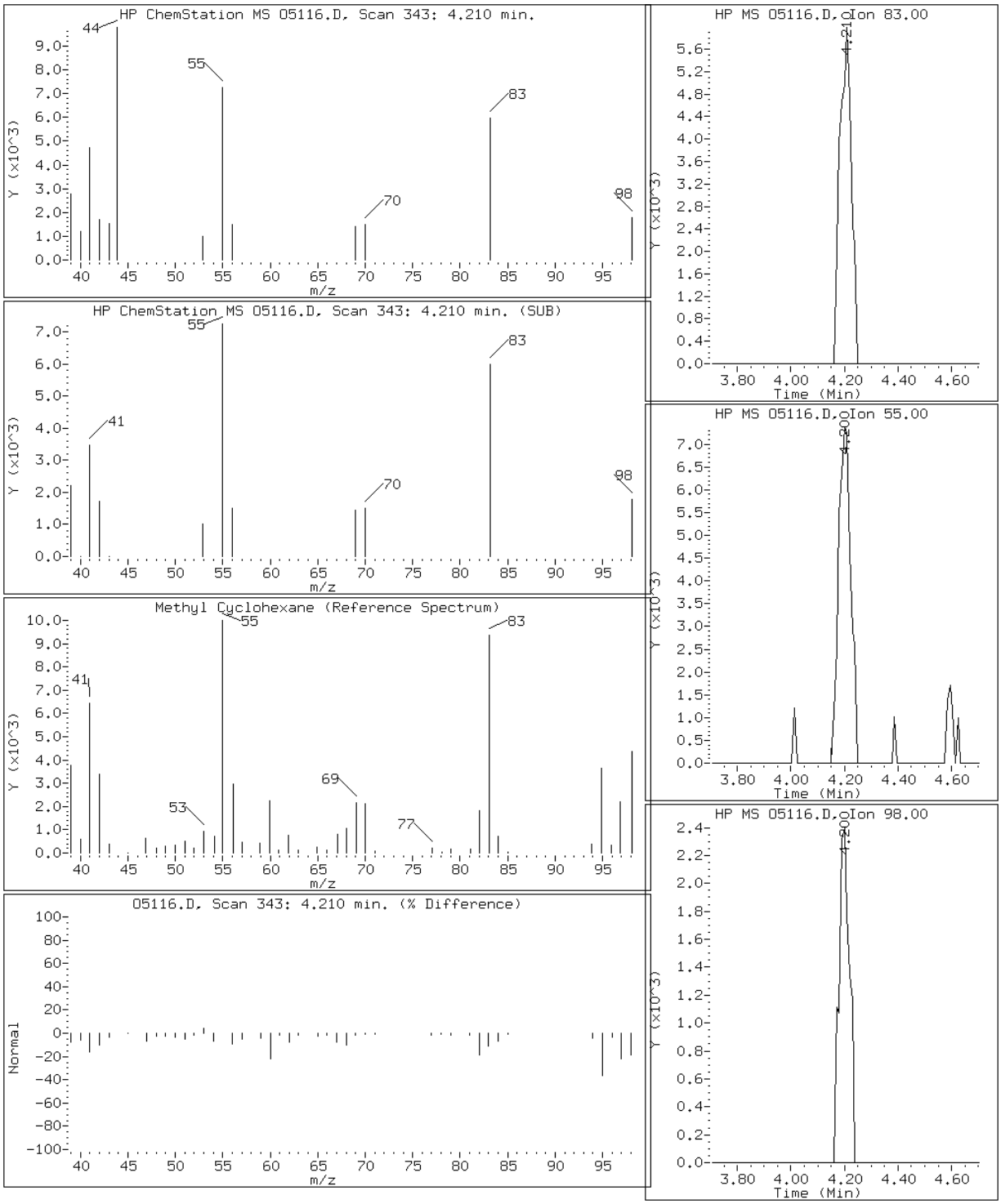
Data File: O5116.D

Date: 24-DEC-2009 18:10

Client ID: PBL-1-30-E(9') Instrument: mso.i

Sample Info: 220-11066-C-6 Operator: D. HUMBERT

59 Methyl Cyclohexane



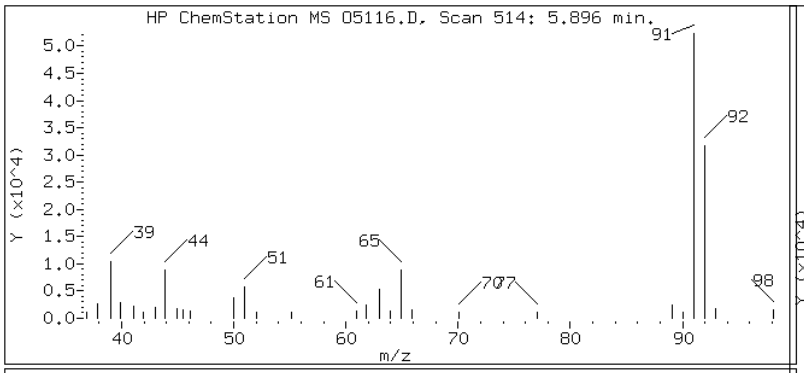
Data File: O5116.D

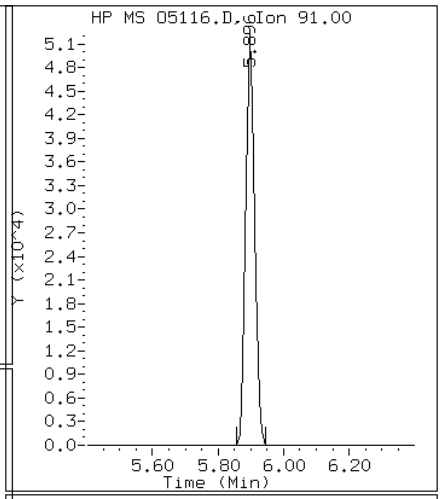
Date: 24-DEC-2009 18:10

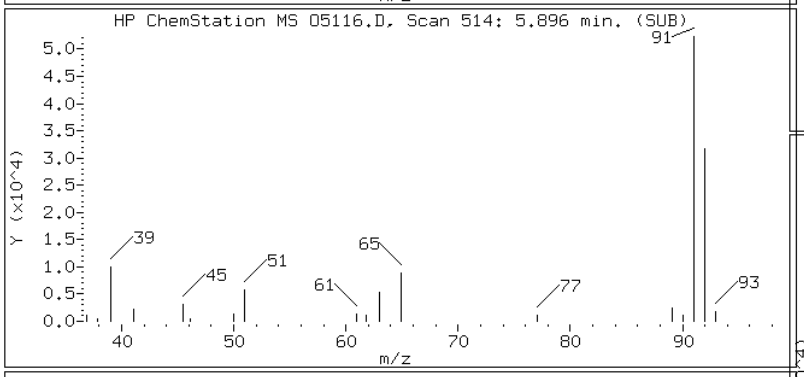
Client ID: PBL-1-30-E(9') Instrument: mso.i

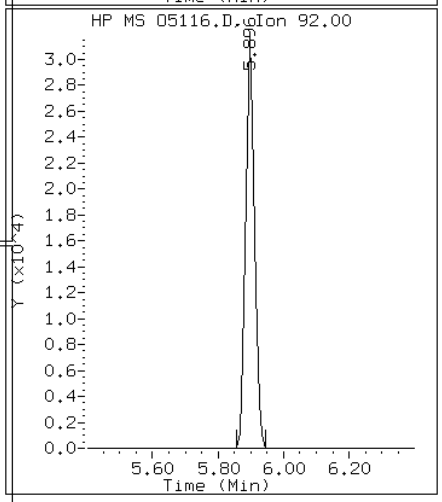
Sample Info: 220-11066-C-6 Operator: D. HUMBERT

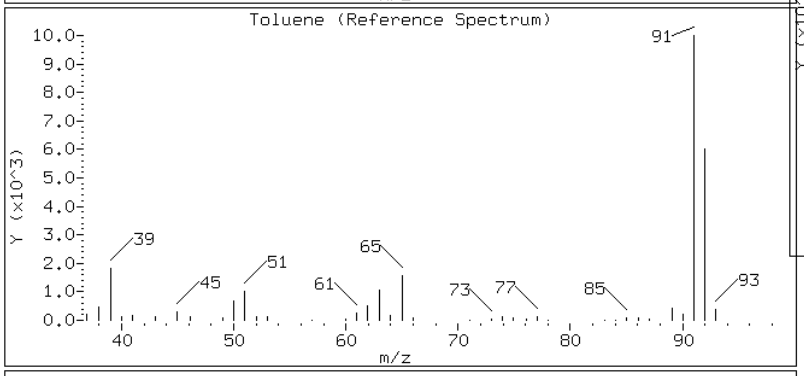
76 Toluene

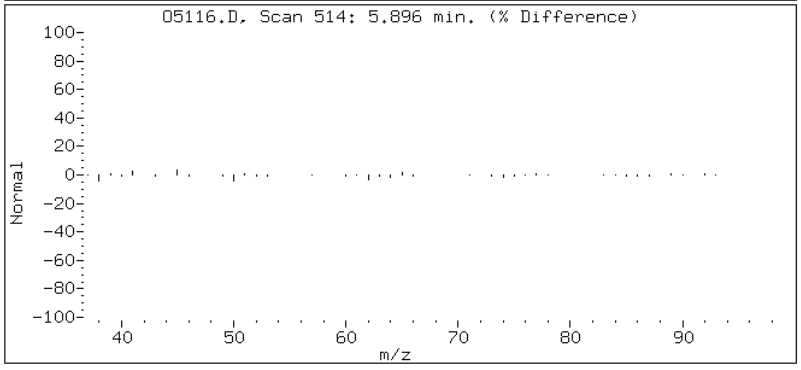












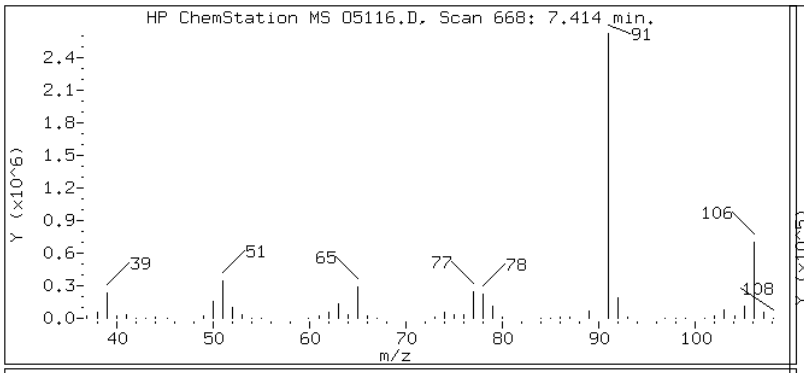
Data File: O5116.D

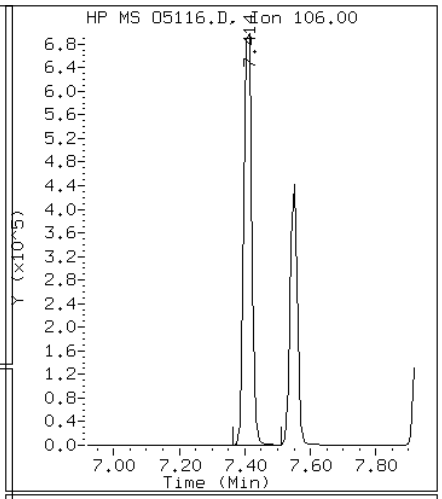
Date: 24-DEC-2009 18:10

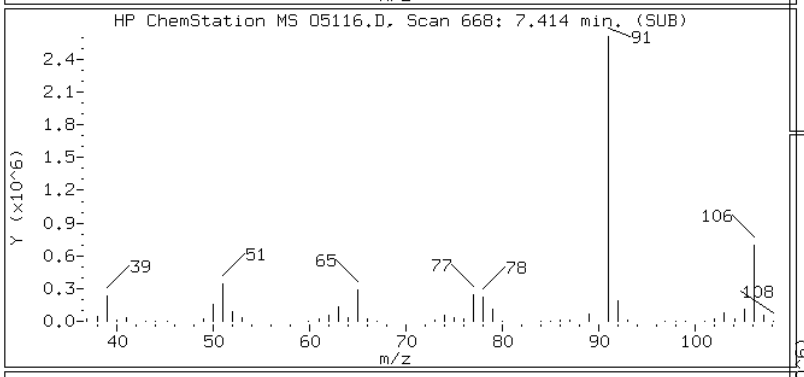
Client ID: PBL-1-30-E(9') Instrument: mso.i

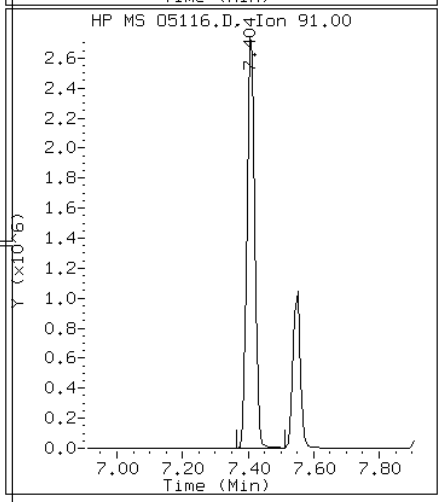
Sample Info: 220-11066-C-6 Operator: D. HUMBERT

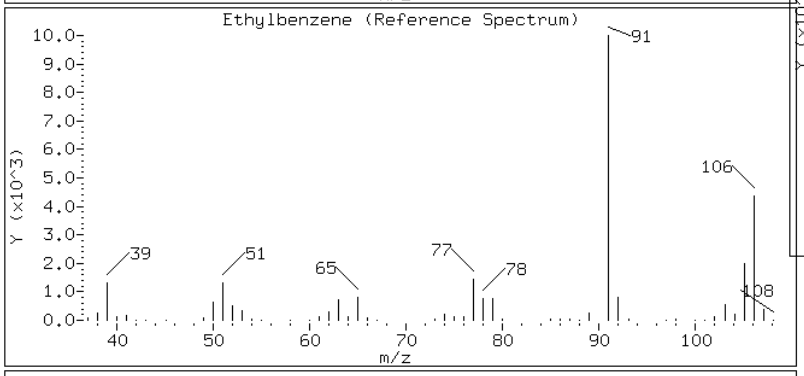
90 Ethylbenzene

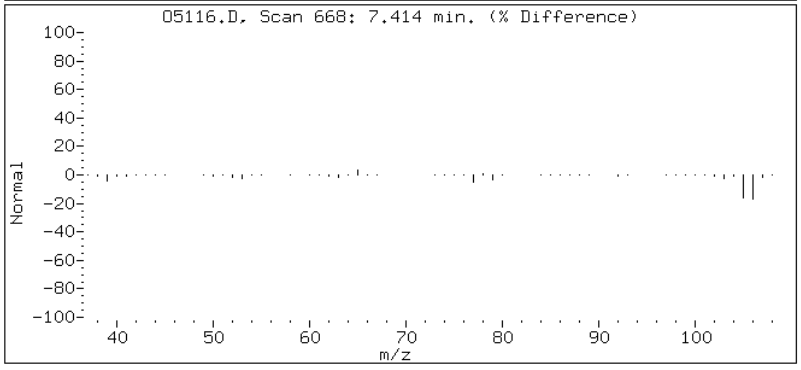












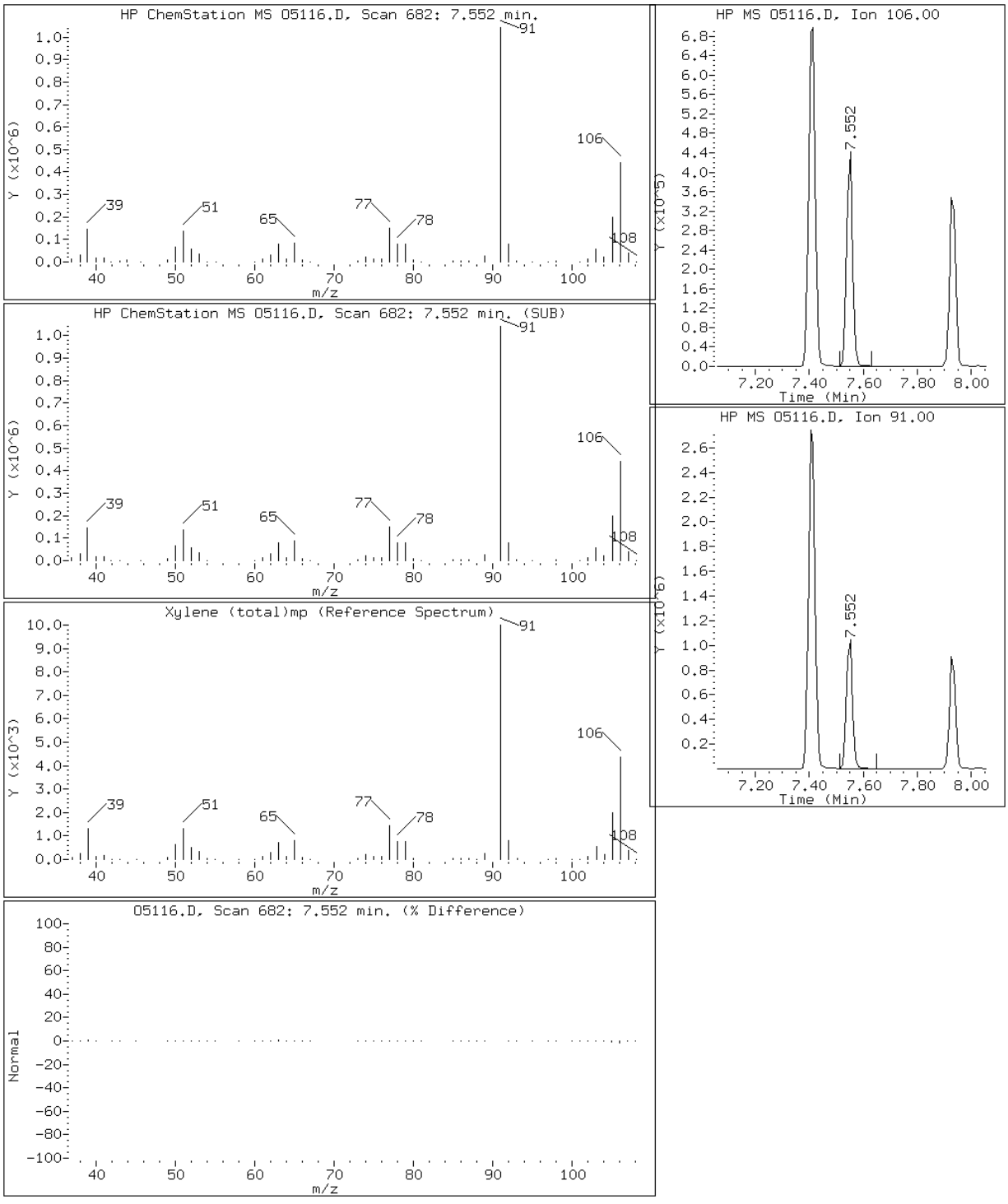
Data File: O5116.D

Date: 24-DEC-2009 18:10

Client ID: PBL-1-30-E(9') Instrument: mso.i

Sample Info: 220-11066-C-6 Operator: D. HUMBERT

91 Xylene (total)mp



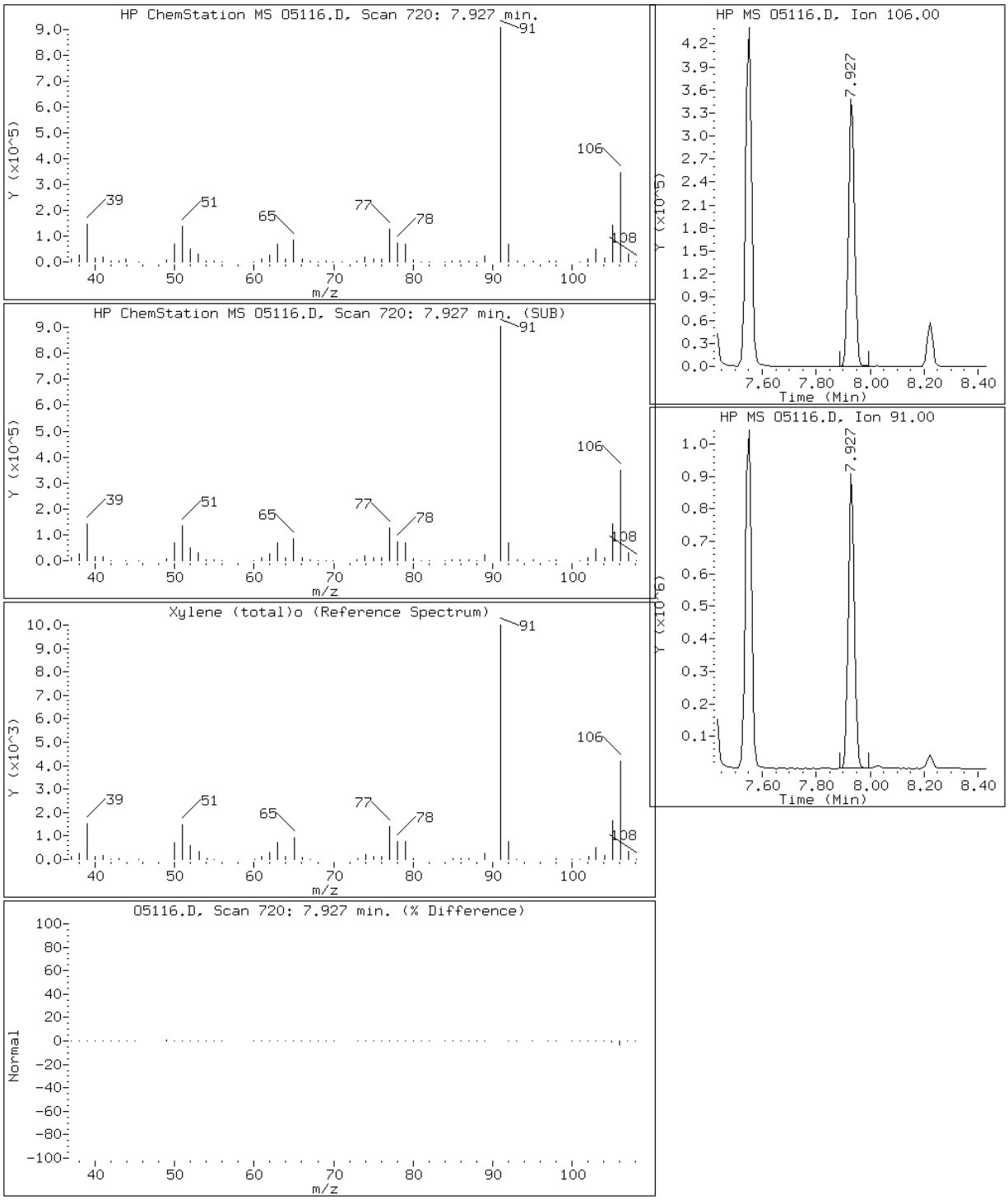
Data File: O5116.D

Date: 24-DEC-2009 18:10

Client ID: PBL-1-30-E(9') Instrument: mso.i

Sample Info: 220-11066-C-6 Operator: D. HUMBERT

92 Xylene (total)o



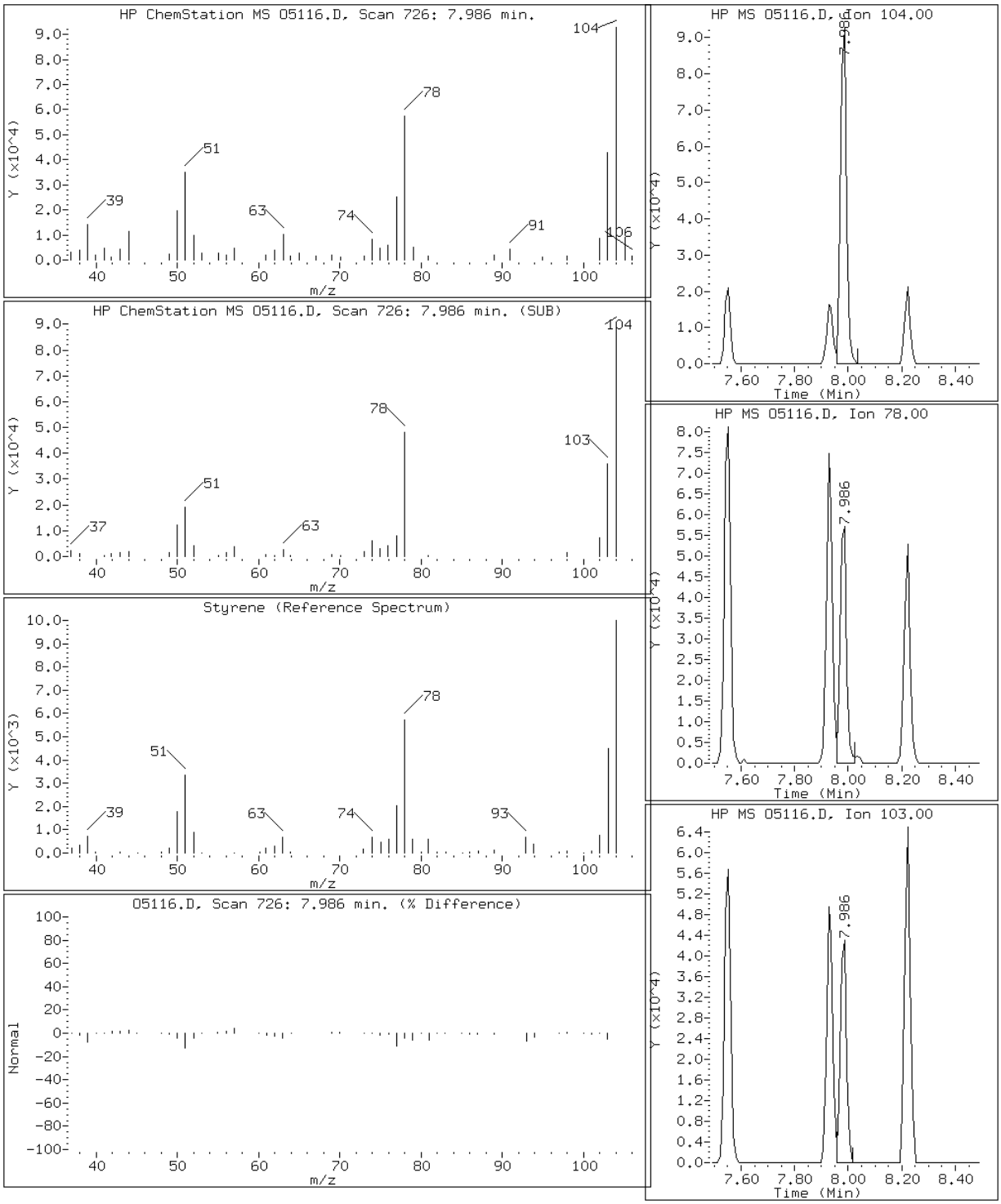
Data File: O5116.D

Date: 24-DEC-2009 18:10

Client ID: PBL-1-30-E(9') Instrument: mso.i

Sample Info: 220-11066-C-6 Operator: D. HUMBERT

93 Styrene



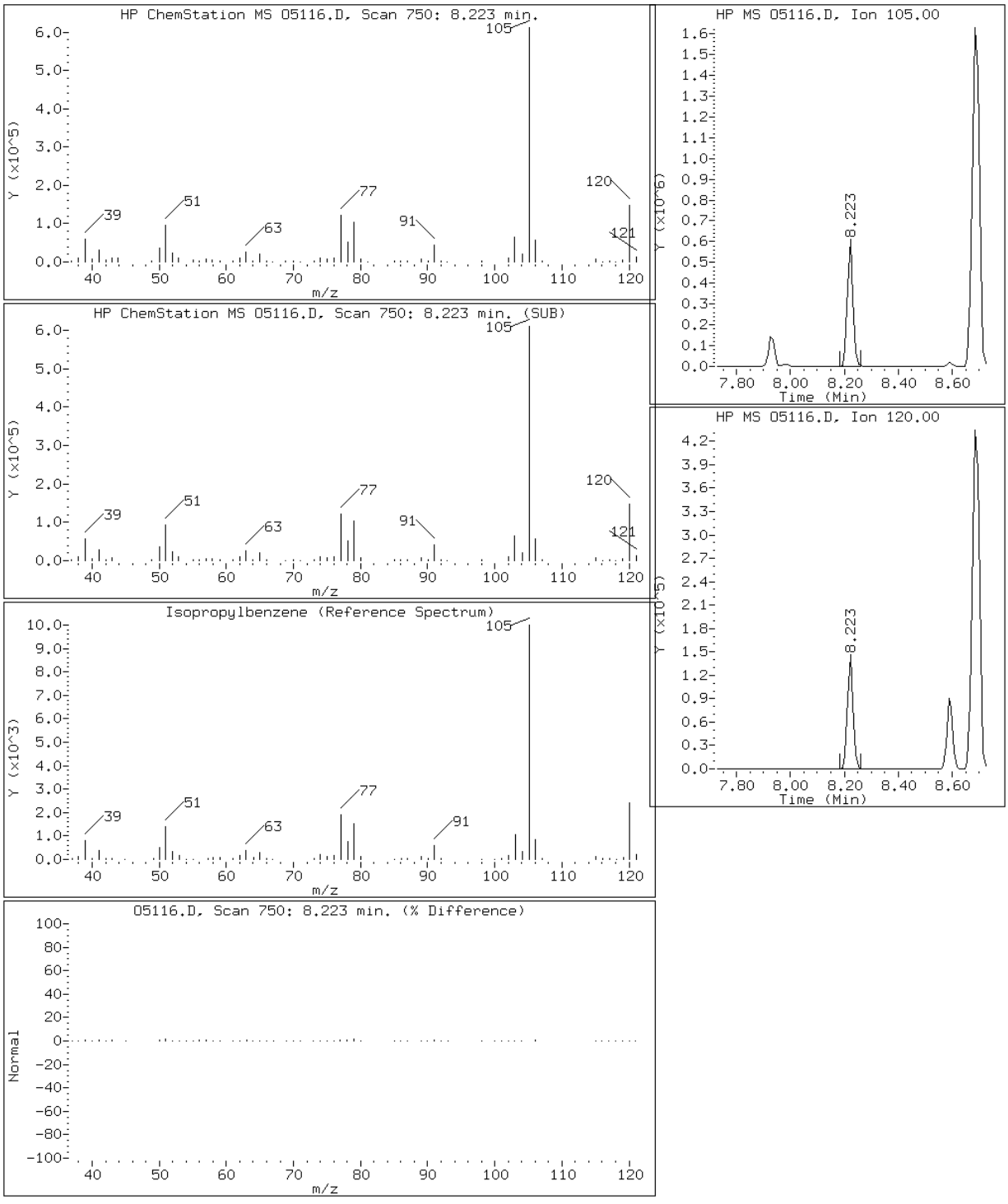
Data File: O5116.D

Date: 24-DEC-2009 18:10

Client ID: PBL-1-30-E(9') Instrument: mso.i

Sample Info: 220-11066-C-6 Operator: D. HUMBERT

96 Isopropylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') F.D. | Lab Sample ID: 220-11066-7

Matrix: Solid | Lab File ID: O5088.D

Analysis Method: 8260B | Date Collected: 12/15/2009 09:10

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 01:51

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 10.8 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	28	U *	28	2.0
74-87-3	Chloromethane	28	U	28	4.4
75-01-4	Vinyl chloride	28	U	28	1.3
74-83-9	Bromomethane	28	U	28	12
75-00-3	Chloroethane	28	U	28	5.5
75-69-4	Trichlorofluoromethane	28	U	28	0.84
75-35-4	1,1-Dichloroethene	28	U	28	3.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	28	U	28	4.4
67-64-1	Acetone	19	J *	110	13
75-15-0	Carbon disulfide	18	J	28	2.3
79-20-9	Methyl acetate	28	U	28	2.5
75-09-2	Methylene Chloride	110	U	110	6.1
156-60-5	trans-1,2-Dichloroethene	28	U	28	2.2
1634-04-4	Methyl tert-butyl ether	28	U	28	1.2
75-34-3	1,1-Dichloroethane	28	U	28	1.7
156-59-2	cis-1,2-Dichloroethene	28	U	28	2.1
78-93-3	Methyl Ethyl Ketone	56	U	56	8.9
67-66-3	Chloroform	28	U	28	1.9
71-55-6	1,1,1-Trichloroethane	28	U	28	3.0
110-82-7	Cyclohexane	28	U	28	3.9
56-23-5	Carbon tetrachloride	28	U	28	5.3
71-43-2	Benzene	19	J	28	3.2
107-06-2	1,2-Dichloroethane	28	U	28	3.3
79-01-6	Trichloroethene	28	U	28	4.5
108-87-2	Methylcyclohexane	10	J	28	1.9
78-87-5	1,2-Dichloropropane	28	U	28	3.8
75-27-4	Bromodichloromethane	28	U	28	1.7
10061-01-5	cis-1,3-Dichloropropene	28	U	28	3.1
108-10-1	methyl isobutyl ketone	28	U	28	3.1
108-88-3	Toluene	21	J B	28	0.42
10061-02-6	trans-1,3-Dichloropropene	28	U	28	1.5
79-00-5	1,1,2-Trichloroethane	28	U	28	2.1
127-18-4	Tetrachloroethene	28	U	28	4.5
591-78-6	2-Hexanone	56	U	56	6.7
124-48-1	Dibromochloromethane	28	U	28	2.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') F.D. | Lab Sample ID: 220-11066-7

Matrix: Solid | Lab File ID: O5088.D

Analysis Method: 8260B | Date Collected: 12/15/2009 09:10

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 01:51

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 10.8 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	28	U	28	4.3
108-90-7	Chlorobenzene	28	U	28	3.3
100-41-4	Ethylbenzene	720		28	3.9
1330-20-7	Xylenes, Total	590		28	2.7
100-42-5	Styrene	48		28	0.84
75-25-2	Bromoform	28	U	28	3.4
98-82-8	Isopropylbenzene	200		28	1.1
79-34-5	1,1,2,2-Tetrachloroethane	28	U	28	2.9
541-73-1	1,3-Dichlorobenzene	28	U	28	1.2
106-46-7	1,4-Dichlorobenzene	28	U	28	3.8
95-50-1	1,2-Dichlorobenzene	28	U	28	1.3
96-12-8	1,2-Dibromo-3-Chloropropane	56	U	56	25
120-82-1	1,2,4-Trichlorobenzene	28	U	28	4.2

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86	59-132	
460-00-4	4-Bromofluorobenzene	65	34-124	
1868-53-7	Dibromofluoromethane	73	59-123	
2037-26-5	Toluene-d8 (Surr)	80	50-118	

STL-INC

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\files\chem\VOA\mso.i\O095064.b\O5088.D
Lab Smp Id: 220-11066-C-7 Client Smp ID: PBL-1-30-E(9') F.D.
Inj Date : 24-DEC-2009 01:51 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : 220-11066-C-7
Misc Info : : ;;; ; 8260 ; 5 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 88
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.012	4.014	(1.000)	272873	25.0000	
	15 Carbon Disulfide	76	1.577	1.579	(0.393)	63942	3.24546	16
	20 Methylene Chloride	84	1.843	1.845	(0.460)	3751	0.68922	3
	21 Acetone	43	1.873	1.875	(0.467)	10597	3.43874	17
$	41 Dibromofluoromethane	111	3.105	3.107	(0.774)	98126	18.3103	18
	52 Benzene	78	3.510	3.511	(0.875)	75108	3.42981	17
$	55 1,2-Dichloroethane-d4	65	3.657	3.669	(0.912)	133014	21.3848	21
	59 Methyl Cyclohexane	83	4.219	4.221	(1.052)	19233	1.86824	9
*	75 Chlorobenzene-d5	117	7.354	7.356	(1.000)	217623	25.0000	
	76 Toluene	91	5.905	5.907	(0.803)	82749	3.68484	18
$	77 Toluene-d8	98	5.856	5.858	(0.796)	332627	19.8957	20
	90 Ethylbenzene	106	7.414	7.415	(1.008)	911854	127.725	640
	91 Xylene (total)mp	106	7.552	7.563	(1.027)	479145	54.4383	270
	92 Xylene (total)o	106	7.936	7.938	(1.079)	410412	49.6659	250
	93 Styrene	104	7.985	7.987	(1.086)	112237	8.48417	42
*	95 1,4-Dichlorobenzene-d4	152	9.444	9.446	(1.000)	118094	25.0000	
	96 Isopropylbenzene	105	8.232	8.234	(0.872)	858421	35.7501	180
	99 4-Ethyltoluene	105	8.695	8.707	(0.921)	2245771	93.8496	470
	102 n-Propylbenzene	91	8.597	8.598	(0.910)	719902	22.7480	110
	105 1,3,5-Trimethylbenzene	105	8.784	8.786	(0.930)	480688	24.1558	120

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
107	1,2,4-Trimethylbenzene	105	9.119	9.121	(0.966)	3206315	166.258	830
109	4-Isopropyltoluene	119	9.336	9.348	(0.989)	307858	14.8704	74
114	1,4-Diethylbenzene	119	9.661	9.663	(1.023)	231029	22.6515	110
115	n-Butylbenzene	91	9.691	9.712	(1.026)	176942	7.63254	38
118	1,2,4,5-Tetramethylbenzene	119	10.361	10.363	(1.097)	452725	28.6637	140
123	Naphthalene	128	11.387	11.388	(1.206)	17542064	1925.53	9600(A)
$ 125	Bromofluorobenzene	95	8.459	8.460	(0.896)	123344	16.1696	16
M 127	Xylene (total)	100				889557	104.104	520

QC Flag Legend

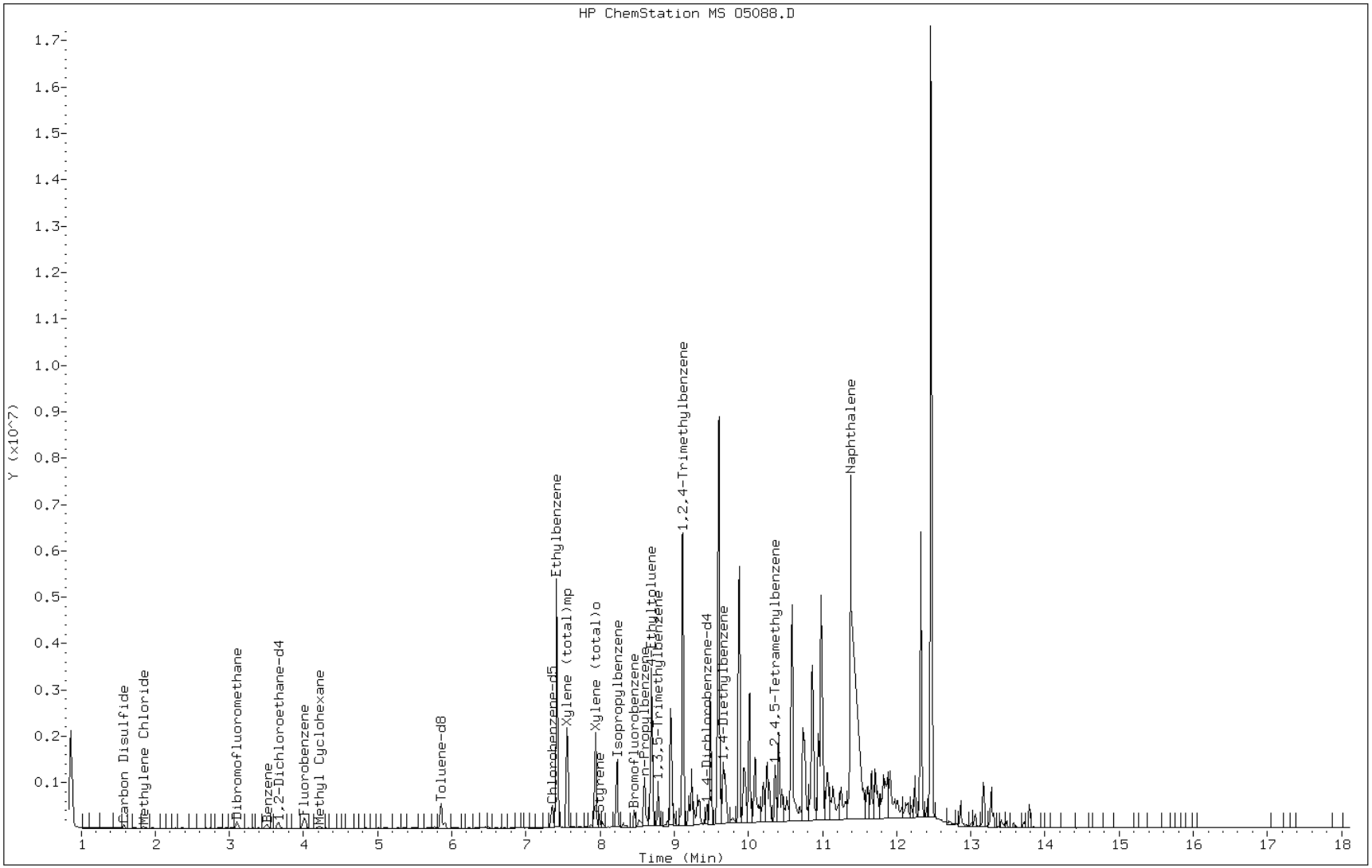
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT



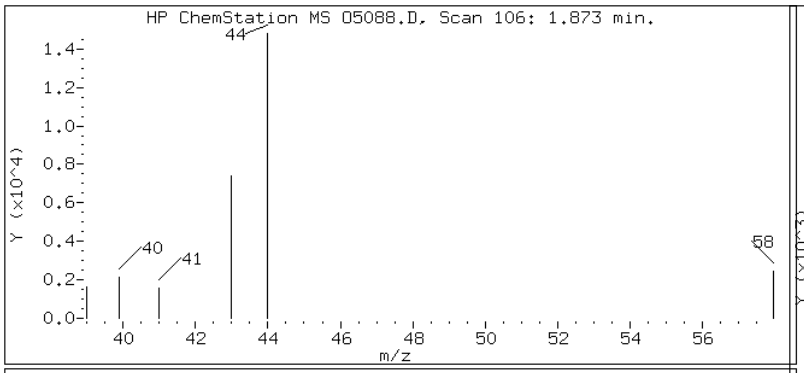
Data File: O5088.D

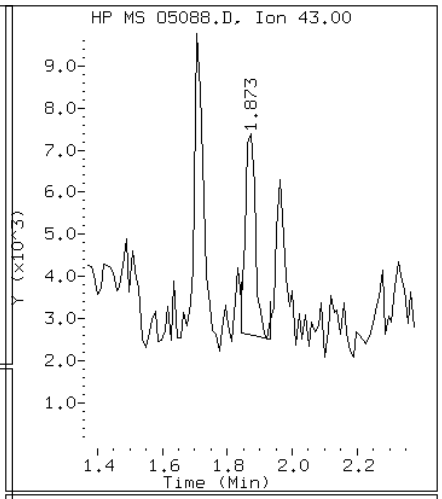
Date: 24-DEC-2009 01:51

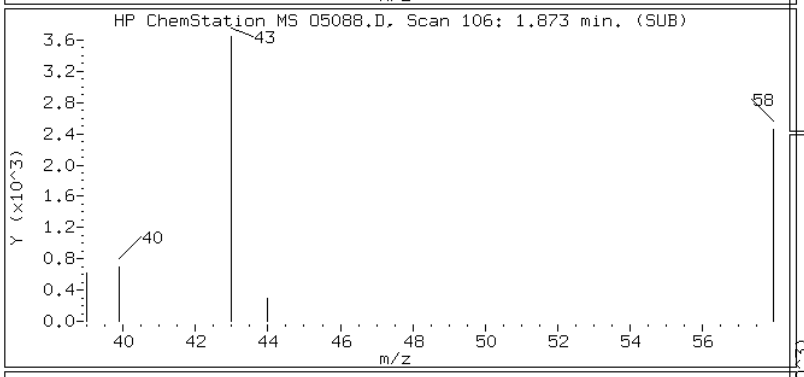
Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

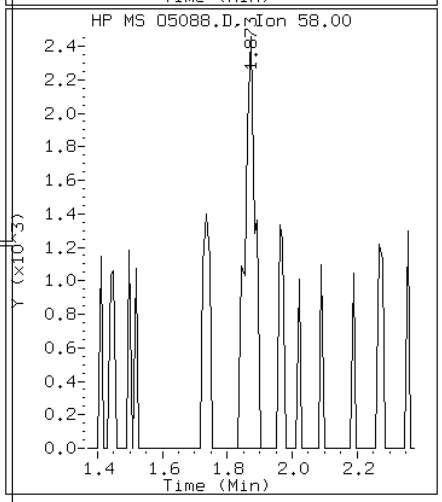
Sample Info: 220-11066-C-7 Operator: D. HUMBERT

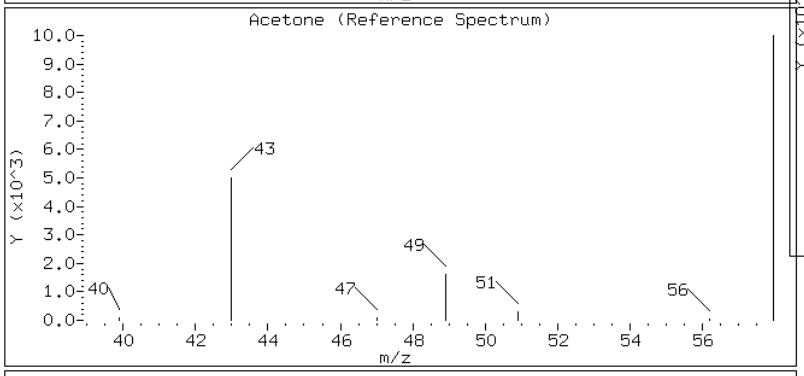
21 Acetone

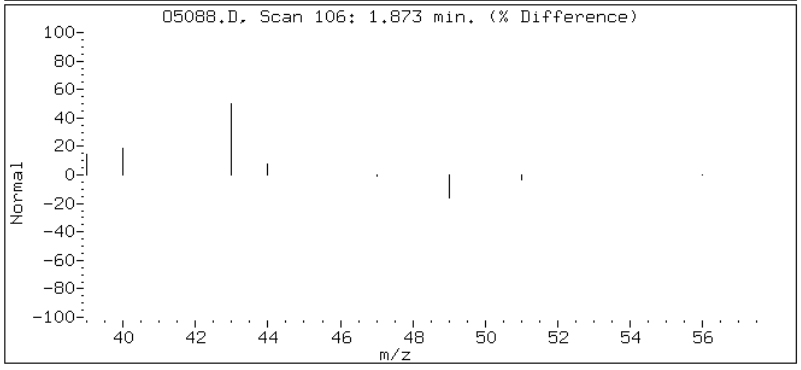












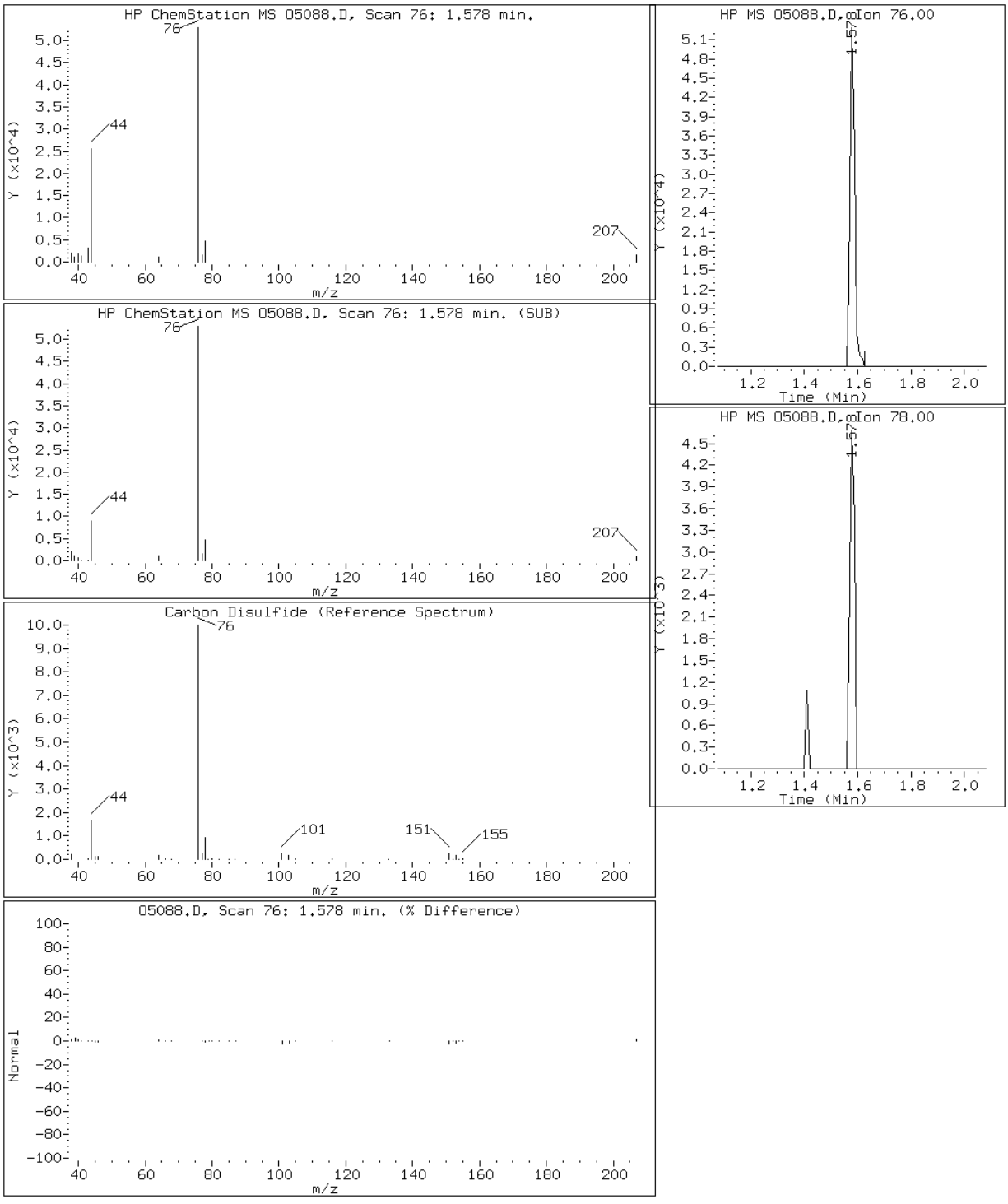
Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT

15 Carbon Disulfide



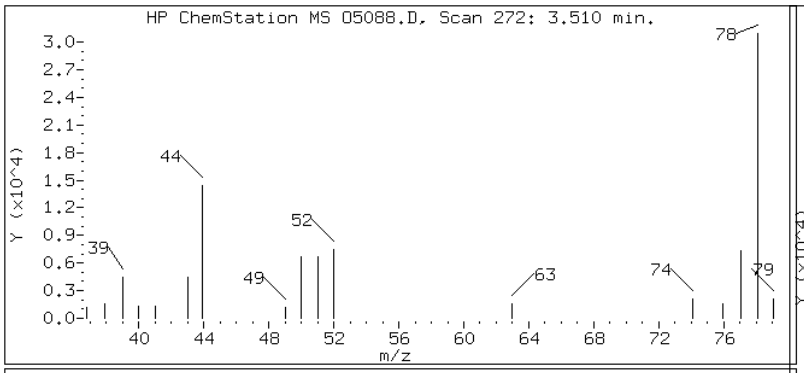
Data File: O5088.D

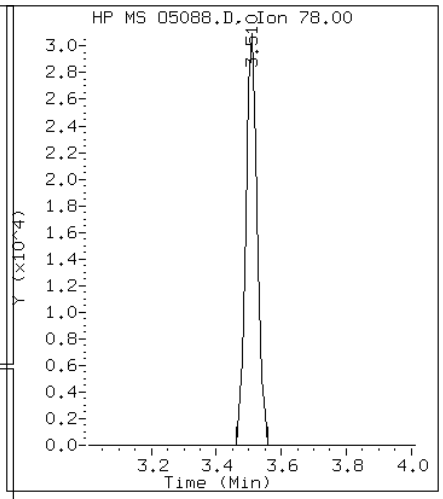
Date: 24-DEC-2009 01:51

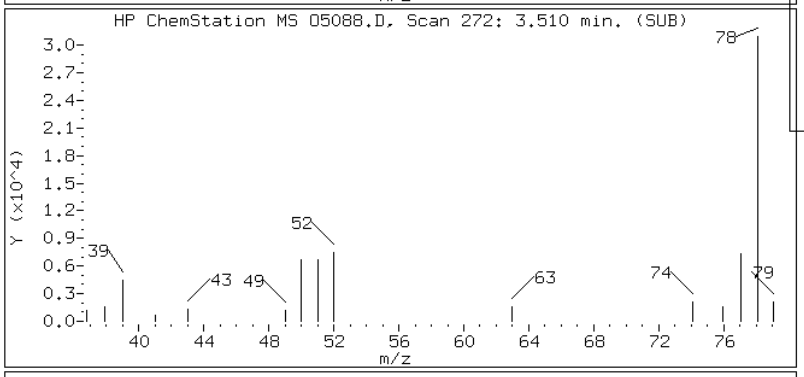
Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

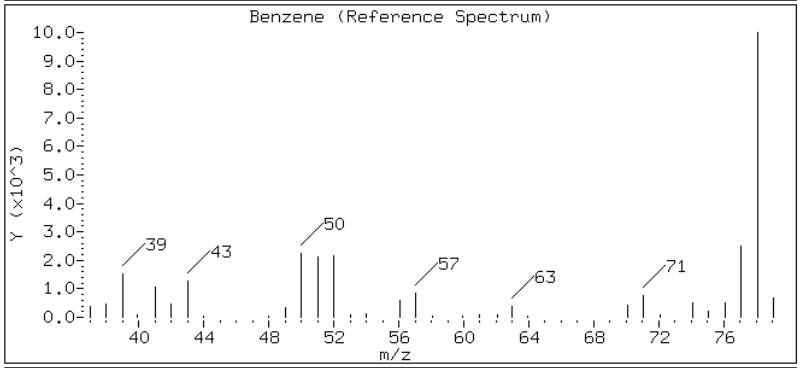
Sample Info: 220-11066-C-7 Operator: D. HUMBERT

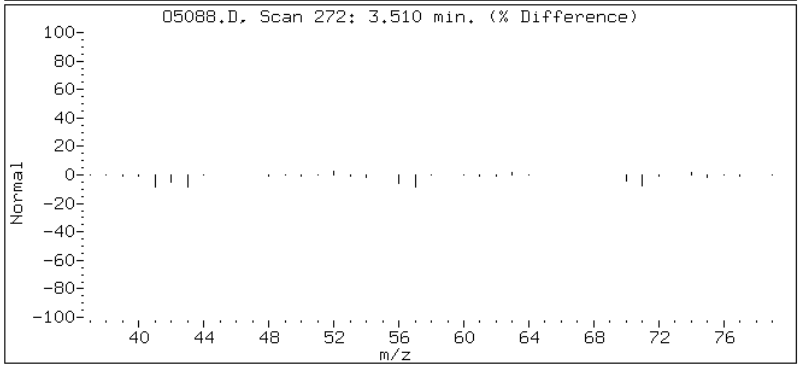
52 Benzene











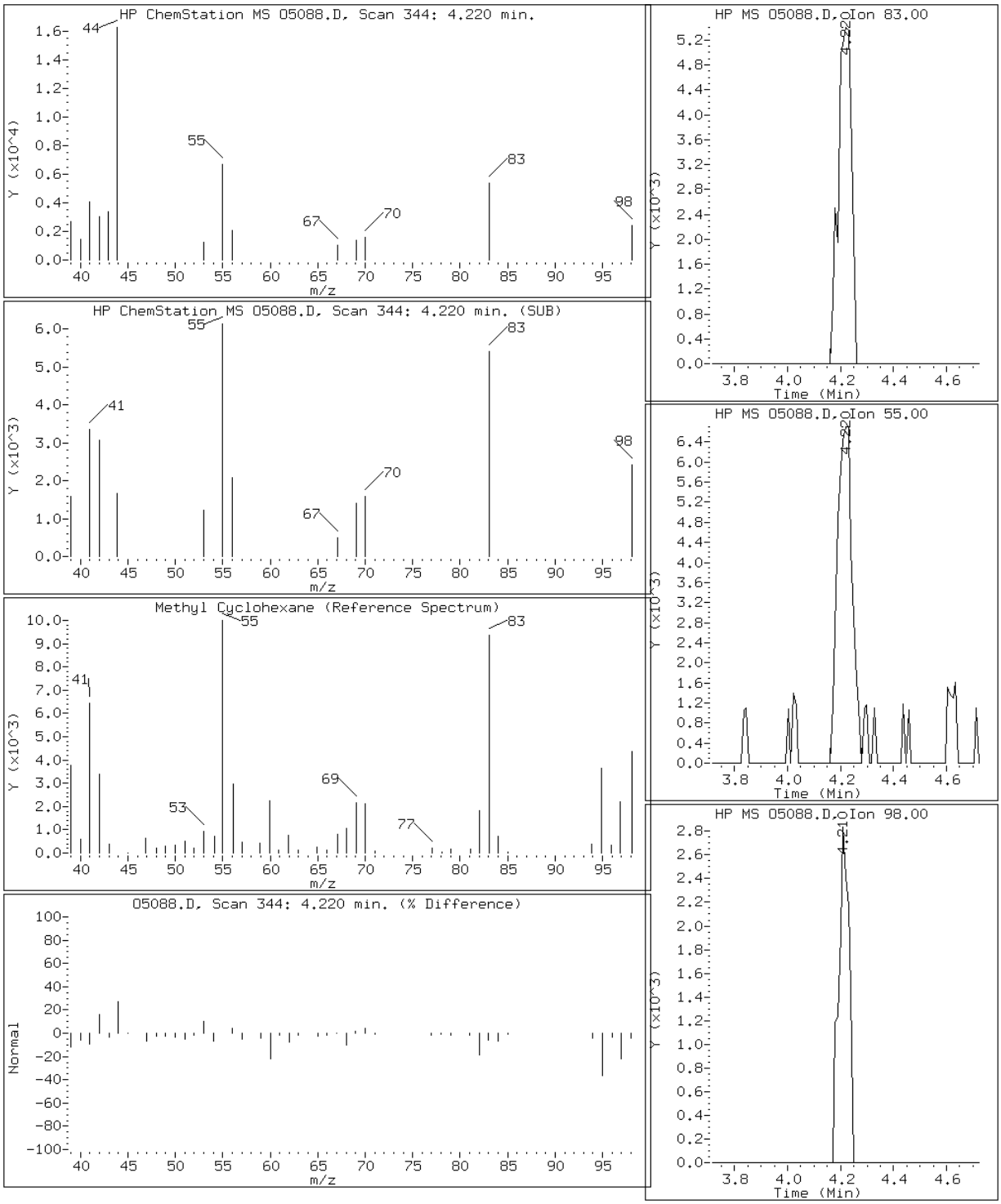
Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT

59 Methyl Cyclohexane



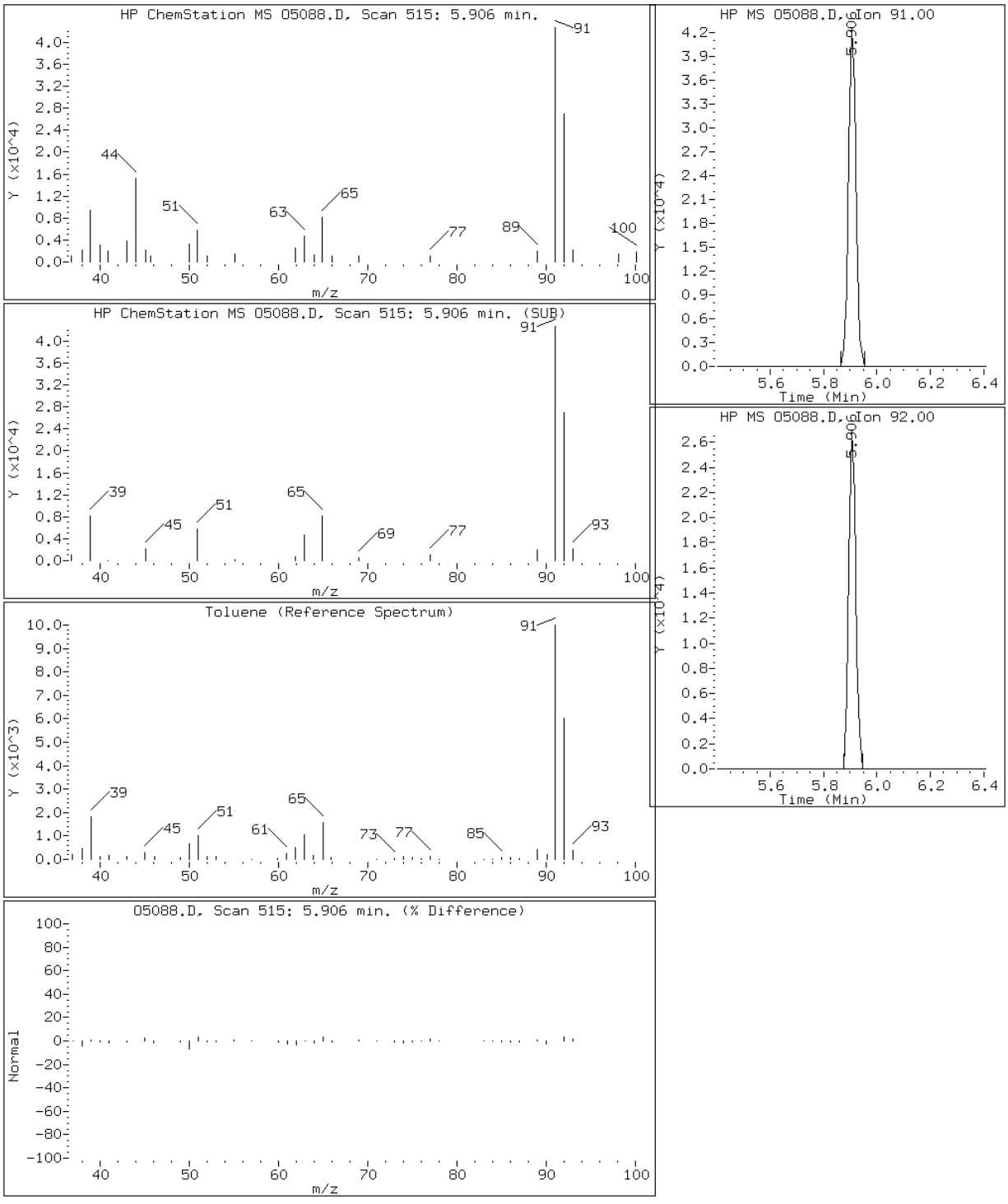
Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT

76 Toluene



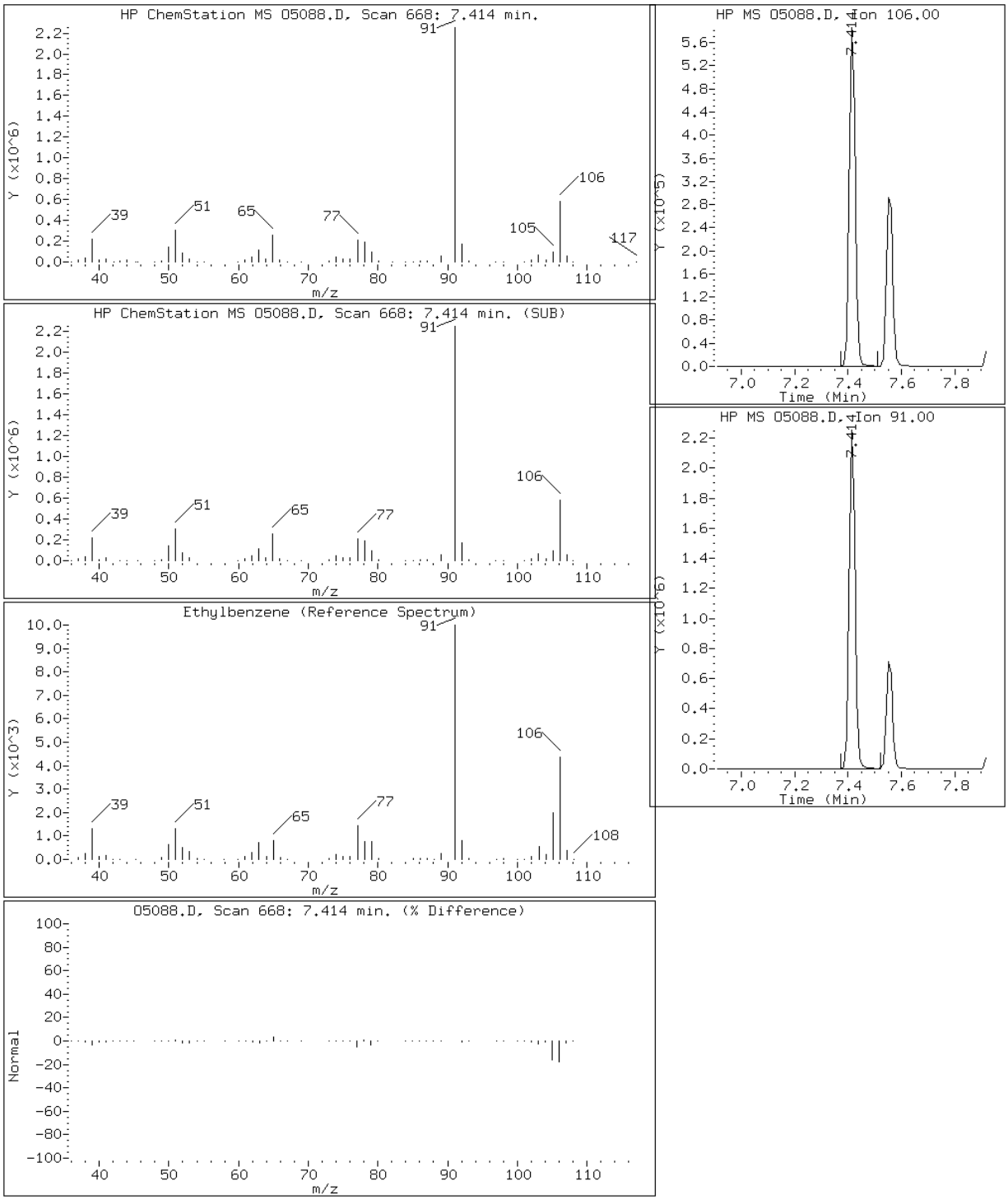
Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT

90 Ethylbenzene



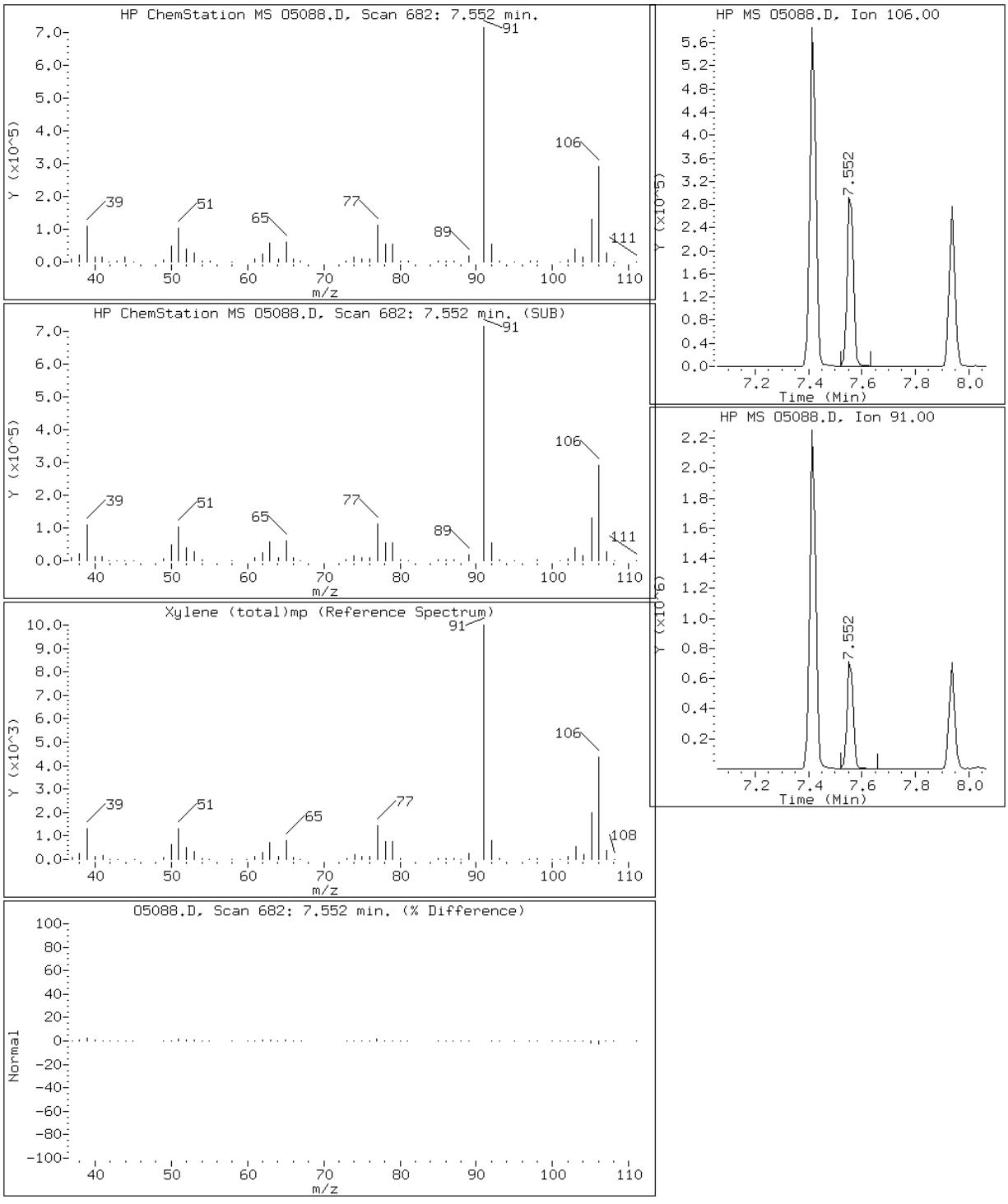
Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT

91 Xylene (total)mp



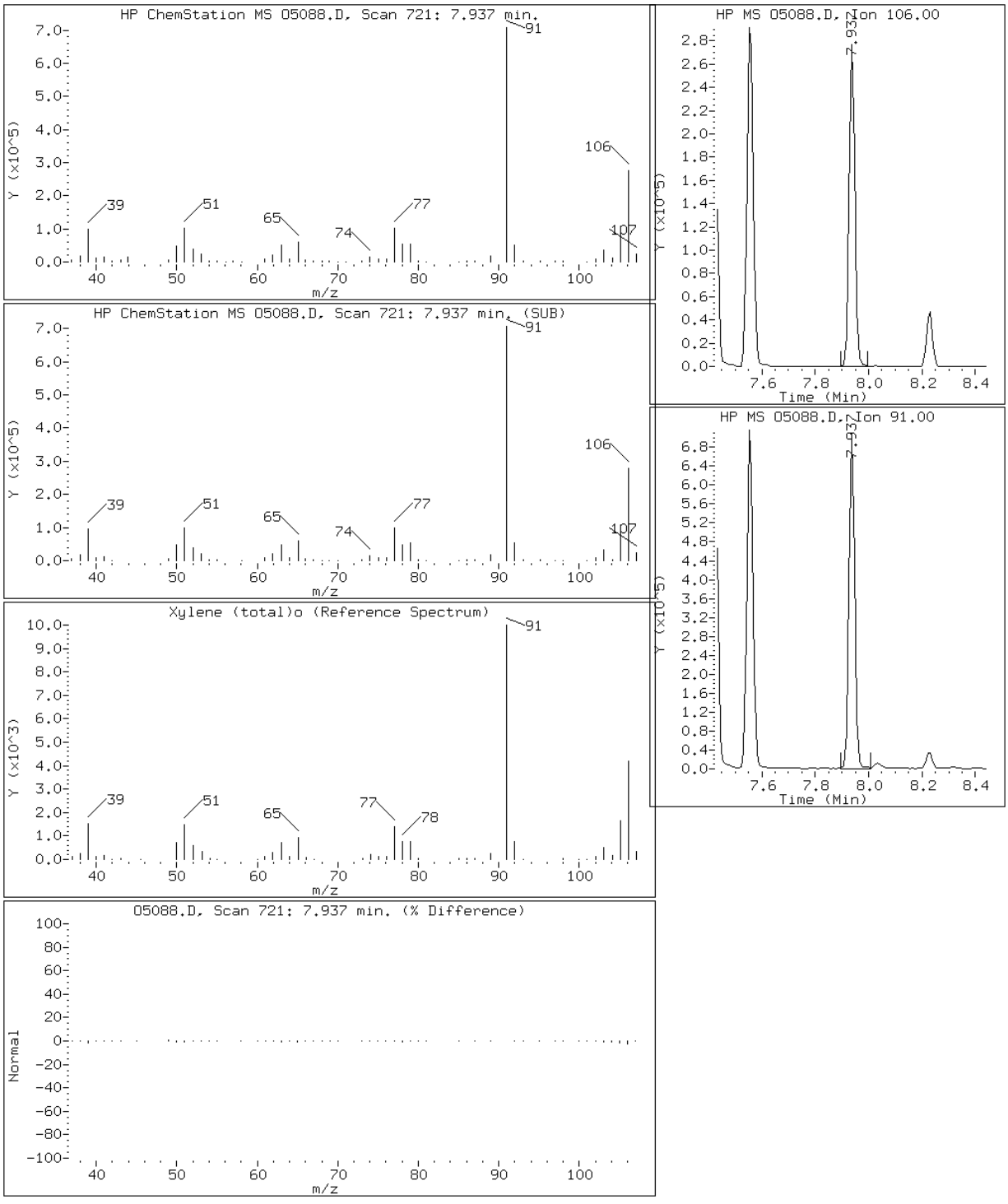
Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT

92 Xylene (total)o



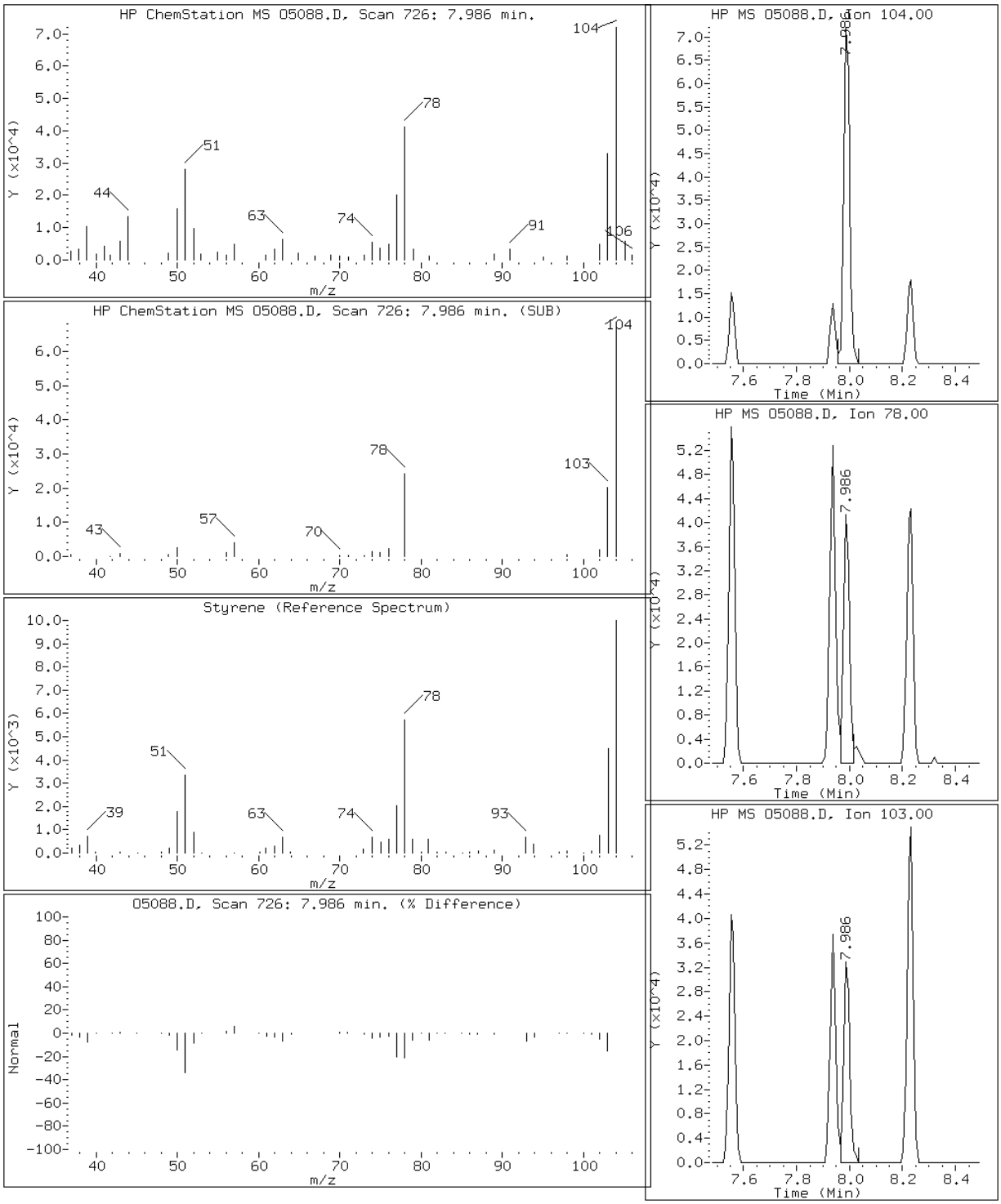
Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT

93 Styrene



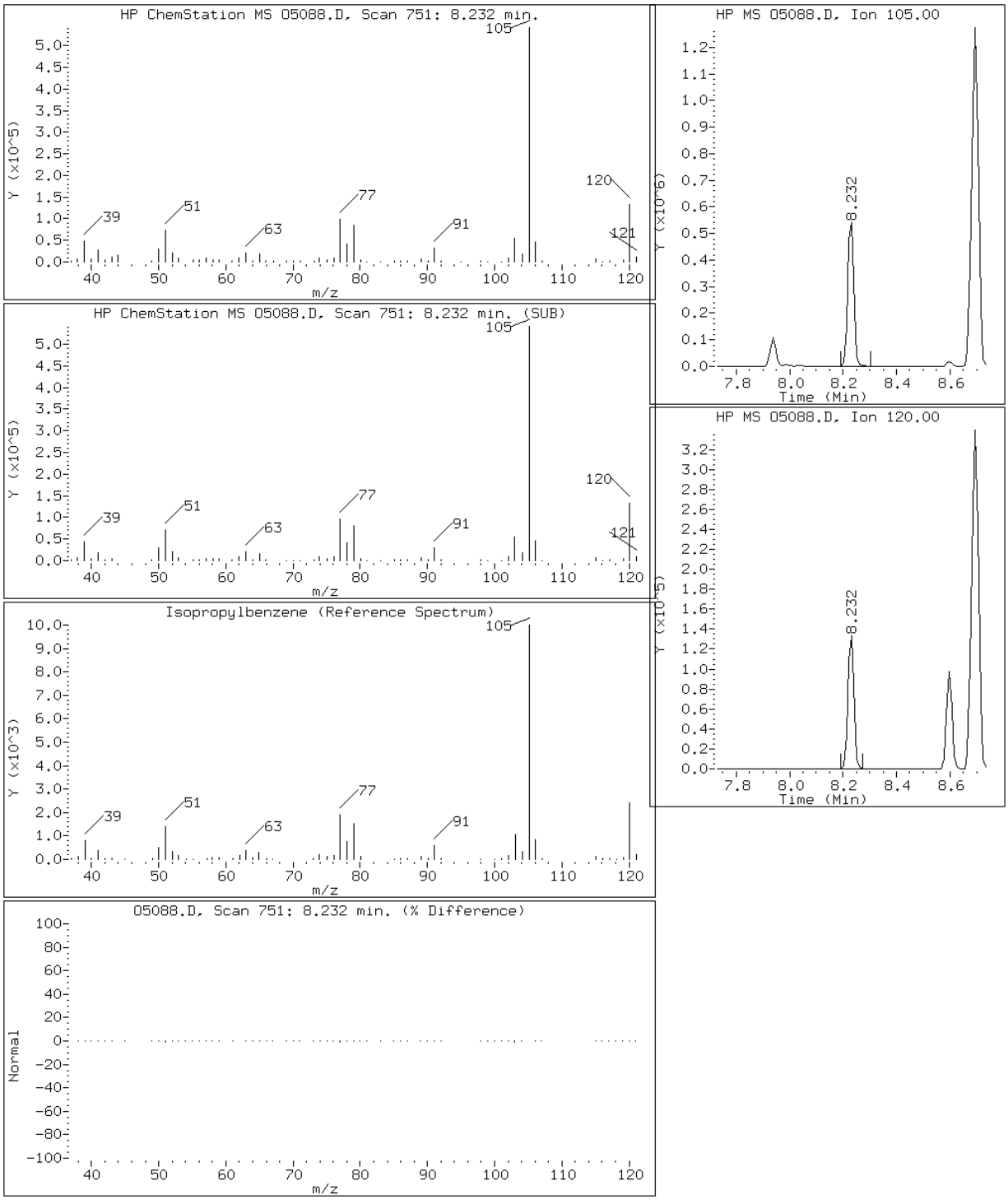
Data File: O5088.D

Date: 24-DEC-2009 01:51

Client ID: PBL-1-30-E(9') F.D. Instrument: mso.i

Sample Info: 220-11066-C-7 Operator: D. HUMBERT

96 Isopropylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') | Lab Sample ID: 220-11066-8

Matrix: Solid | Lab File ID: O5082.D

Analysis Method: 8260B | Date Collected: 12/15/2009 11:20

Sample wt/vol: 5(g) | Date Analyzed: 12/23/2009 23:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 20.3 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	6.3	U *	6.3	0.44
74-87-3	Chloromethane	6.3	U	6.3	0.98
75-01-4	Vinyl chloride	6.3	U	6.3	0.29
74-83-9	Bromomethane	6.3	U	6.3	2.6
75-00-3	Chloroethane	6.3	U	6.3	1.2
75-69-4	Trichlorofluoromethane	6.3	U	6.3	0.19
75-35-4	1,1-Dichloroethene	6.3	U	6.3	0.73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	6.3	U	6.3	0.99
67-64-1	Acetone	25	U *	25	2.8
75-15-0	Carbon disulfide	6.3	U	6.3	0.51
79-20-9	Methyl acetate	6.3	U	6.3	0.55
75-09-2	Methylene Chloride	25	U	25	1.4
156-60-5	trans-1,2-Dichloroethene	6.3	U	6.3	0.49
1634-04-4	Methyl tert-butyl ether	6.3	U	6.3	0.26
75-34-3	1,1-Dichloroethane	6.3	U	6.3	0.38
156-59-2	cis-1,2-Dichloroethene	6.3	U	6.3	0.46
78-93-3	Methyl Ethyl Ketone	13	U	13	2.0
67-66-3	Chloroform	6.3	U	6.3	0.43
71-55-6	1,1,1-Trichloroethane	6.3	U	6.3	0.67
110-82-7	Cyclohexane	6.3	U	6.3	0.87
56-23-5	Carbon tetrachloride	6.3	U	6.3	1.2
71-43-2	Benzene	6.3	U	6.3	0.72
107-06-2	1,2-Dichloroethane	6.3	U	6.3	0.73
79-01-6	Trichloroethene	6.3	U	6.3	1.0
108-87-2	Methylcyclohexane	6.3	U	6.3	0.41
78-87-5	1,2-Dichloropropane	6.3	U	6.3	0.84
75-27-4	Bromodichloromethane	6.3	U	6.3	0.38
10061-01-5	cis-1,3-Dichloropropene	6.3	U	6.3	0.70
108-10-1	methyl isobutyl ketone	6.3	U	6.3	0.69
108-88-3	Toluene	6.3	U	6.3	0.093
10061-02-6	trans-1,3-Dichloropropene	6.3	U	6.3	0.34
79-00-5	1,1,2-Trichloroethane	6.3	U	6.3	0.46
127-18-4	Tetrachloroethene	6.3	U	6.3	1.0
591-78-6	2-Hexanone	13	U	13	1.5
124-48-1	Dibromochloromethane	6.3	U	6.3	0.44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') | Lab Sample ID: 220-11066-8

Matrix: Solid | Lab File ID: O5082.D

Analysis Method: 8260B | Date Collected: 12/15/2009 11:20

Sample wt/vol: 5(g) | Date Analyzed: 12/23/2009 23:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 20.3 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	6.3	U	6.3	0.95
108-90-7	Chlorobenzene	6.3	U	6.3	0.74
100-41-4	Ethylbenzene	6.3	U	6.3	0.88
1330-20-7	Xylenes, Total	6.3	U	6.3	0.61
100-42-5	Styrene	6.3	U	6.3	0.19
75-25-2	Bromoform	6.3	U	6.3	0.77
98-82-8	Isopropylbenzene	6.3	U	6.3	0.24
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U	6.3	0.65
541-73-1	1,3-Dichlorobenzene	6.3	U	6.3	0.26
106-46-7	1,4-Dichlorobenzene	6.3	U	6.3	0.84
95-50-1	1,2-Dichlorobenzene	6.3	U	6.3	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13	5.7
120-82-1	1,2,4-Trichlorobenzene	6.3	U	6.3	0.94

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	37	59-132	*
460-00-4	4-Bromofluorobenzene	33	34-124	*
1868-53-7	Dibromofluoromethane	41	59-123	*
2037-26-5	Toluene-d8 (Surr)	43	50-118	*

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O5082.D
Lab Smp Id: 220-11066-C-8 Client Smp ID: PBL-2-60-E(4')
Inj Date : 23-DEC-2009 23:22 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : 220-11066-C-8
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 82
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.017	4.014	(1.000)	238240	25.0000	
	20 Methylene Chloride	84	1.839	1.845	(0.458)	4165	0.87654	0.9
	21 Acetone	43	1.878	1.875	(0.468)	4877	1.81265	2
$	41 Dibromofluoromethane	111	3.101	3.107	(0.772)	48240	10.3101	10(R)
$	55 1,2-Dichloroethane-d4	65	3.662	3.669	(0.912)	50608	9.31909	9(R)
*	75 Chlorobenzene-d5	117	7.359	7.356	(1.000)	142995	25.0000	
$	77 Toluene-d8	98	5.861	5.858	(0.796)	118613	10.7974	11(R)
*	95 1,4-Dichlorobenzene-d4	152	9.440	9.446	(1.000)	24068	25.0000	
$	125 Bromofluorobenzene	95	8.464	8.460	(0.897)	12654	8.13948	8(R)

QC Flag Legend

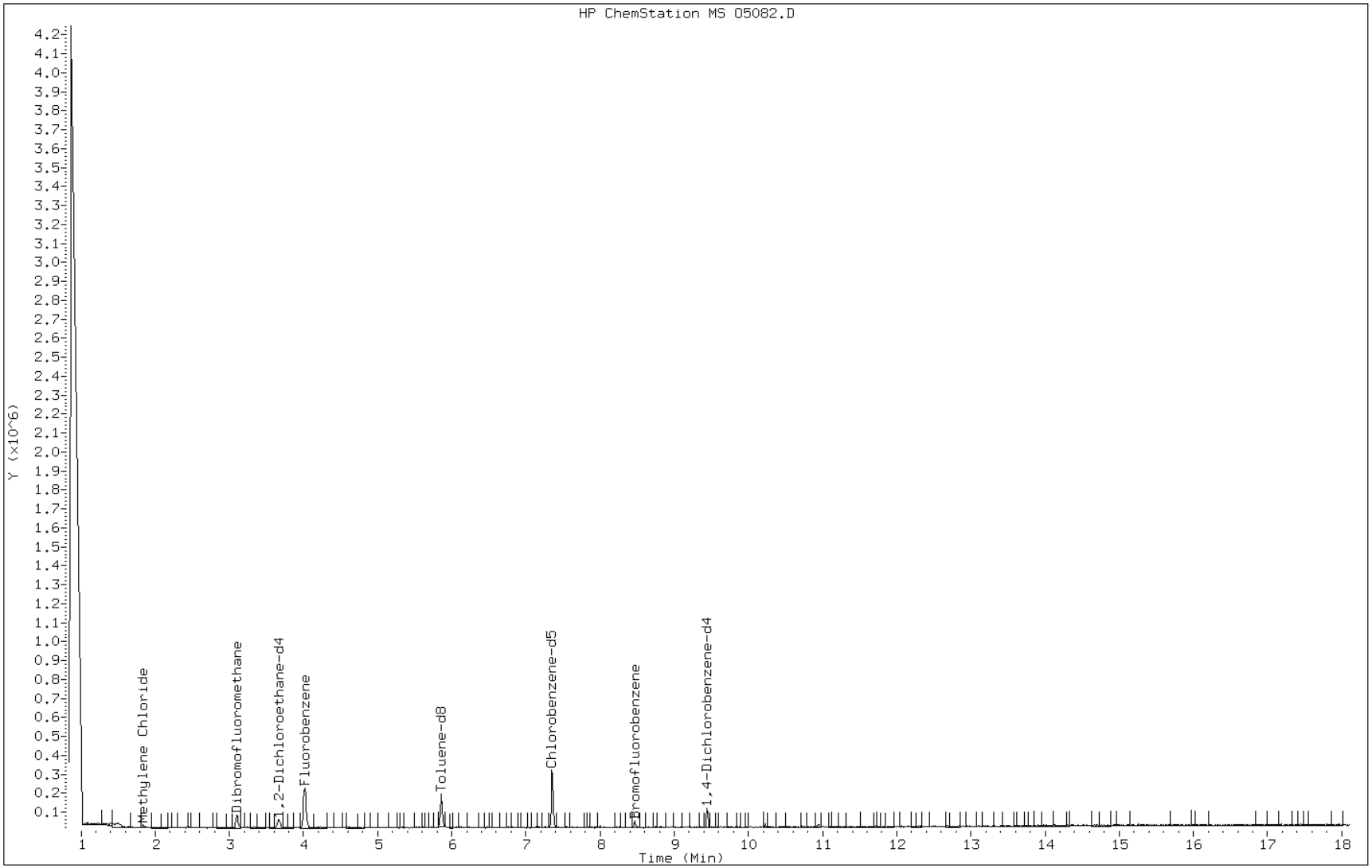
R - Spike/Surrogate failed recovery limits.

Data File: O5082.D

Date: 23-DEC-2009 23:22

Client ID: PBL-2-60-E(4') Instrument: mso.i

Sample Info: 220-11066-C-8 Operator: D. HUMBERT



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') F.D. | Lab Sample ID: 220-11066-9

Matrix: Solid | Lab File ID: O5083.D

Analysis Method: 8260B | Date Collected: 12/15/2009 11:20

Sample wt/vol: 5(g) | Date Analyzed: 12/23/2009 23:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 23.4 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	6.5	U *	6.5	0.46
74-87-3	Chloromethane	6.5	U	6.5	1.0
75-01-4	Vinyl chloride	6.5	U	6.5	0.30
74-83-9	Bromomethane	6.5	U	6.5	2.7
75-00-3	Chloroethane	6.5	U	6.5	1.3
75-69-4	Trichlorofluoromethane	6.5	U	6.5	0.20
75-35-4	1,1-Dichloroethene	6.5	U	6.5	0.76
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	6.5	U	6.5	1.0
67-64-1	Acetone	26	U *	26	2.9
75-15-0	Carbon disulfide	6.5	U	6.5	0.53
79-20-9	Methyl acetate	6.5	U	6.5	0.57
75-09-2	Methylene Chloride	26	U	26	1.4
156-60-5	trans-1,2-Dichloroethene	6.5	U	6.5	0.51
1634-04-4	Methyl tert-butyl ether	6.5	U	6.5	0.27
75-34-3	1,1-Dichloroethane	6.5	U	6.5	0.39
156-59-2	cis-1,2-Dichloroethene	6.5	U	6.5	0.48
78-93-3	Methyl Ethyl Ketone	13	U	13	2.1
67-66-3	Chloroform	6.5	U	6.5	0.44
71-55-6	1,1,1-Trichloroethane	6.5	U	6.5	0.69
110-82-7	Cyclohexane	6.5	U	6.5	0.90
56-23-5	Carbon tetrachloride	6.5	U	6.5	1.2
71-43-2	Benzene	6.5	U	6.5	0.74
107-06-2	1,2-Dichloroethane	6.5	U	6.5	0.76
79-01-6	Trichloroethene	6.5	U	6.5	1.1
108-87-2	Methylcyclohexane	6.5	U	6.5	0.43
78-87-5	1,2-Dichloropropane	6.5	U	6.5	0.87
75-27-4	Bromodichloromethane	6.5	U	6.5	0.39
10061-01-5	cis-1,3-Dichloropropene	6.5	U	6.5	0.73
108-10-1	methyl isobutyl ketone	6.5	U	6.5	0.72
108-88-3	Toluene	6.5	U	6.5	0.097
10061-02-6	trans-1,3-Dichloropropene	6.5	U	6.5	0.35
79-00-5	1,1,2-Trichloroethane	6.5	U	6.5	0.48
127-18-4	Tetrachloroethene	6.5	U	6.5	1.1
591-78-6	2-Hexanone	13	U	13	1.6
124-48-1	Dibromochloromethane	6.5	U	6.5	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') F.D. | Lab Sample ID: 220-11066-9

Matrix: Solid | Lab File ID: O5083.D

Analysis Method: 8260B | Date Collected: 12/15/2009 11:20

Sample wt/vol: 5(g) | Date Analyzed: 12/23/2009 23:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 23.4 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	6.5	U	6.5	0.99
108-90-7	Chlorobenzene	6.5	U	6.5	0.77
100-41-4	Ethylbenzene	6.5	U	6.5	0.91
1330-20-7	Xylenes, Total	6.5	U	6.5	0.63
100-42-5	Styrene	6.5	U	6.5	0.20
75-25-2	Bromoform	6.5	U	6.5	0.80
98-82-8	Isopropylbenzene	6.5	U	6.5	0.25
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U	6.5	0.68
541-73-1	1,3-Dichlorobenzene	6.5	U	6.5	0.27
106-46-7	1,4-Dichlorobenzene	6.5	U	6.5	0.87
95-50-1	1,2-Dichlorobenzene	6.5	U	6.5	0.31
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13	5.9
120-82-1	1,2,4-Trichlorobenzene	6.5	U	6.5	0.98

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	30	59-132	*
460-00-4	4-Bromofluorobenzene	28	34-124	*
1868-53-7	Dibromofluoromethane	33	59-123	*
2037-26-5	Toluene-d8 (Surr)	35	50-118	*

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O5083.D
Lab Smp Id: 220-11066-C-9 Client Smp ID: PBL-2-60-E(4') F.D.
Inj Date : 23-DEC-2009 23:47 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : 220-11066-C-9
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 83
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.015	4.014	(1.000)	236394	25.0000	
	20 Methylene Chloride	84	1.846	1.845	(0.460)	1879	0.39853	0.4
	21 Acetone	43	1.875	1.875	(0.467)	4595	1.72118	2
$	41 Dibromofluoromethane	111	3.098	3.107	(0.772)	38782	8.35343	8(R)
$	55 1,2-Dichloroethane-d4	65	3.660	3.669	(0.912)	40134	7.44809	7(R)
*	75 Chlorobenzene-d5	117	7.357	7.356	(1.000)	133342	25.0000	
$	77 Toluene-d8	98	5.858	5.858	(0.796)	88559	8.64515	9(R)
*	95 1,4-Dichlorobenzene-d4	152	9.447	9.446	(1.000)	17721	25.0000	
$	125 Bromofluorobenzene	95	8.461	8.460	(0.896)	7974	6.96622	7(R)

QC Flag Legend

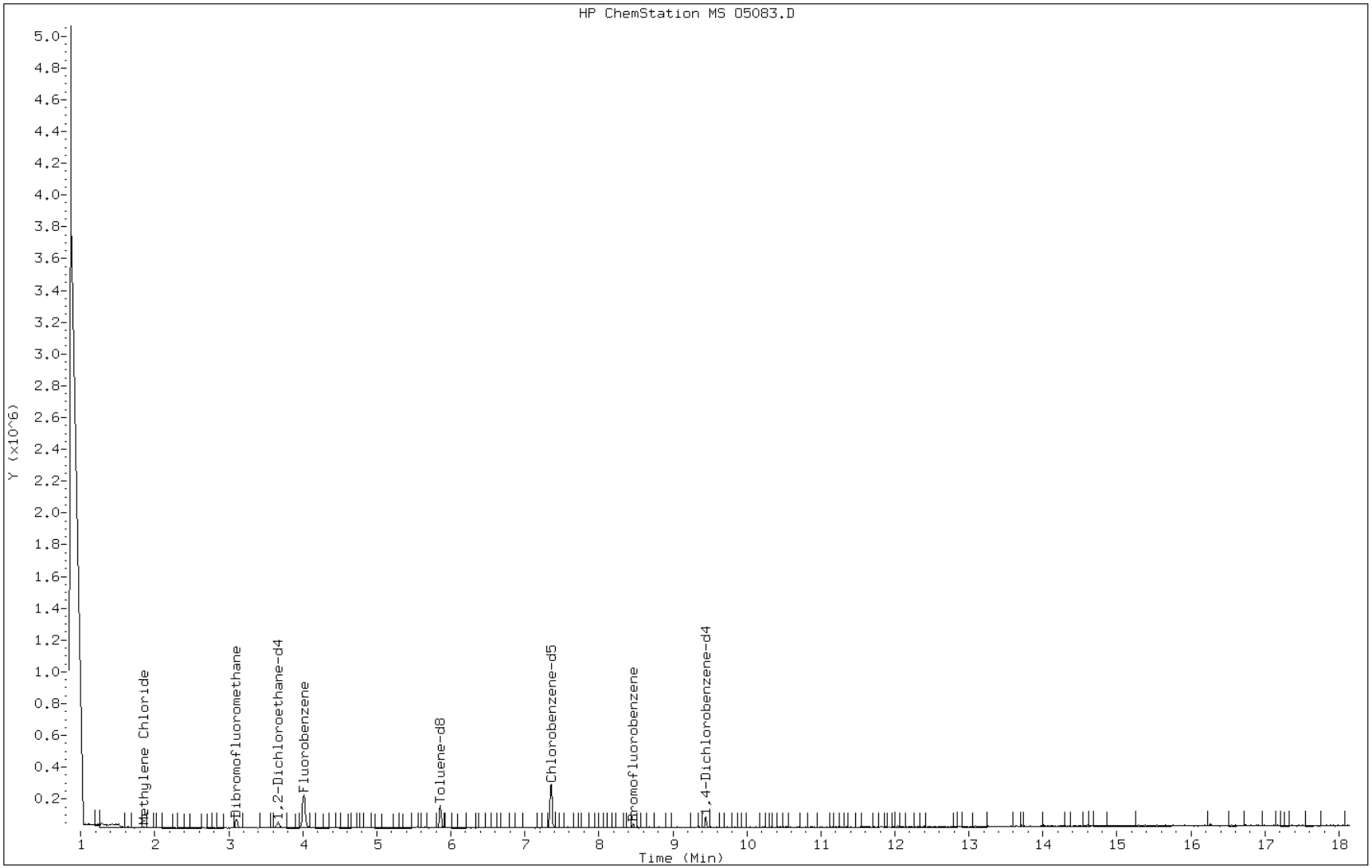
R - Spike/Surrogate failed recovery limits.

Data File: O5083.D

Date: 23-DEC-2009 23:47

Client ID: PBL-2-60-E(4') F.D. Instrument: mso.i

Sample Info: 220-11066-C-9 Operator: D. HUMBERT



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') | Lab Sample ID: 220-11066-10

Matrix: Solid | Lab File ID: O5084.D

Analysis Method: 8260B | Date Collected: 12/15/2009 12:00

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 00:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 23.6 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	6.5	U *	6.5	0.46
74-87-3	Chloromethane	6.5	U	6.5	1.0
75-01-4	Vinyl chloride	6.5	U	6.5	0.30
74-83-9	Bromomethane	6.5	U	6.5	2.7
75-00-3	Chloroethane	6.5	U	6.5	1.3
75-69-4	Trichlorofluoromethane	6.5	U	6.5	0.20
75-35-4	1,1-Dichloroethene	6.5	U	6.5	0.76
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	6.5	U	6.5	1.0
67-64-1	Acetone	7.9	J *	26	2.9
75-15-0	Carbon disulfide	2.7	J	6.5	0.54
79-20-9	Methyl acetate	6.5	U	6.5	0.58
75-09-2	Methylene Chloride	26	U	26	1.4
156-60-5	trans-1,2-Dichloroethene	6.5	U	6.5	0.51
1634-04-4	Methyl tert-butyl ether	6.5	U	6.5	0.27
75-34-3	1,1-Dichloroethane	6.5	U	6.5	0.39
156-59-2	cis-1,2-Dichloroethene	6.5	U	6.5	0.48
78-93-3	Methyl Ethyl Ketone	13	U	13	2.1
67-66-3	Chloroform	6.5	U	6.5	0.44
71-55-6	1,1,1-Trichloroethane	6.5	U	6.5	0.69
110-82-7	Cyclohexane	6.5	U	6.5	0.90
56-23-5	Carbon tetrachloride	6.5	U	6.5	1.2
71-43-2	Benzene	6.5	U	6.5	0.75
107-06-2	1,2-Dichloroethane	6.5	U	6.5	0.76
79-01-6	Trichloroethene	6.5	U	6.5	1.1
108-87-2	Methylcyclohexane	6.5	U	6.5	0.43
78-87-5	1,2-Dichloropropane	6.5	U	6.5	0.88
75-27-4	Bromodichloromethane	6.5	U	6.5	0.39
10061-01-5	cis-1,3-Dichloropropene	6.5	U	6.5	0.73
108-10-1	methyl isobutyl ketone	6.5	U	6.5	0.72
108-88-3	Toluene	6.5	U	6.5	0.097
10061-02-6	trans-1,3-Dichloropropene	6.5	U	6.5	0.35
79-00-5	1,1,2-Trichloroethane	6.5	U	6.5	0.48
127-18-4	Tetrachloroethene	6.5	U	6.5	1.1
591-78-6	2-Hexanone	13	U	13	1.6
124-48-1	Dibromochloromethane	6.5	U	6.5	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') | Lab Sample ID: 220-11066-10

Matrix: Solid | Lab File ID: O5084.D

Analysis Method: 8260B | Date Collected: 12/15/2009 12:00

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 00:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 23.6 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	6.5	U	6.5	0.99
108-90-7	Chlorobenzene	6.5	U	6.5	0.77
100-41-4	Ethylbenzene	6.5	U	6.5	0.92
1330-20-7	Xylenes, Total	6.5	U	6.5	0.64
100-42-5	Styrene	6.5	U	6.5	0.20
75-25-2	Bromoform	6.5	U	6.5	0.80
98-82-8	Isopropylbenzene	6.5	U	6.5	0.25
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U	6.5	0.68
541-73-1	1,3-Dichlorobenzene	6.5	U	6.5	0.27
106-46-7	1,4-Dichlorobenzene	6.5	U	6.5	0.88
95-50-1	1,2-Dichlorobenzene	6.5	U	6.5	0.31
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13	5.9
120-82-1	1,2,4-Trichlorobenzene	6.5	U	6.5	0.98

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79	59-132	
460-00-4	4-Bromofluorobenzene	88	34-124	
1868-53-7	Dibromofluoromethane	75	59-123	
2037-26-5	Toluene-d8 (Surr)	64	50-118	

STL-INC

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\files\chem\VOA\mso.i\O095064.b\O5084.D
Lab Smp Id: 220-11066-C-10 Client Smp ID: PBL-2-30-N(10')
Inj Date : 24-DEC-2009 00:12 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : 220-11066-C-10
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 84
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.012	4.014	(1.000)	260857	25.0000	
	15 Carbon Disulfide	76	1.577	1.579	(0.393)	39566	2.10073	2
	20 Methylene Chloride	84	1.844	1.845	(0.460)	2945	0.56605	0.6
	21 Acetone	43	1.873	1.875	(0.467)	17734	6.01978	6(M)
$	41 Dibromofluoromethane	111	3.105	3.107	(0.774)	96073	18.7530	19
$	55 1,2-Dichloroethane-d4	65	3.667	3.669	(0.914)	117477	19.7569	20
*	75 Chlorobenzene-d5	117	7.355	7.356	(1.000)	208172	25.0000	
$	77 Toluene-d8	98	5.856	5.858	(0.796)	257733	16.1159	16
*	95 1,4-Dichlorobenzene-d4	152	9.445	9.446	(1.000)	98669	25.0000	
$	125 Bromofluorobenzene	95	8.459	8.460	(0.896)	139851	21.9429	22

QC Flag Legend

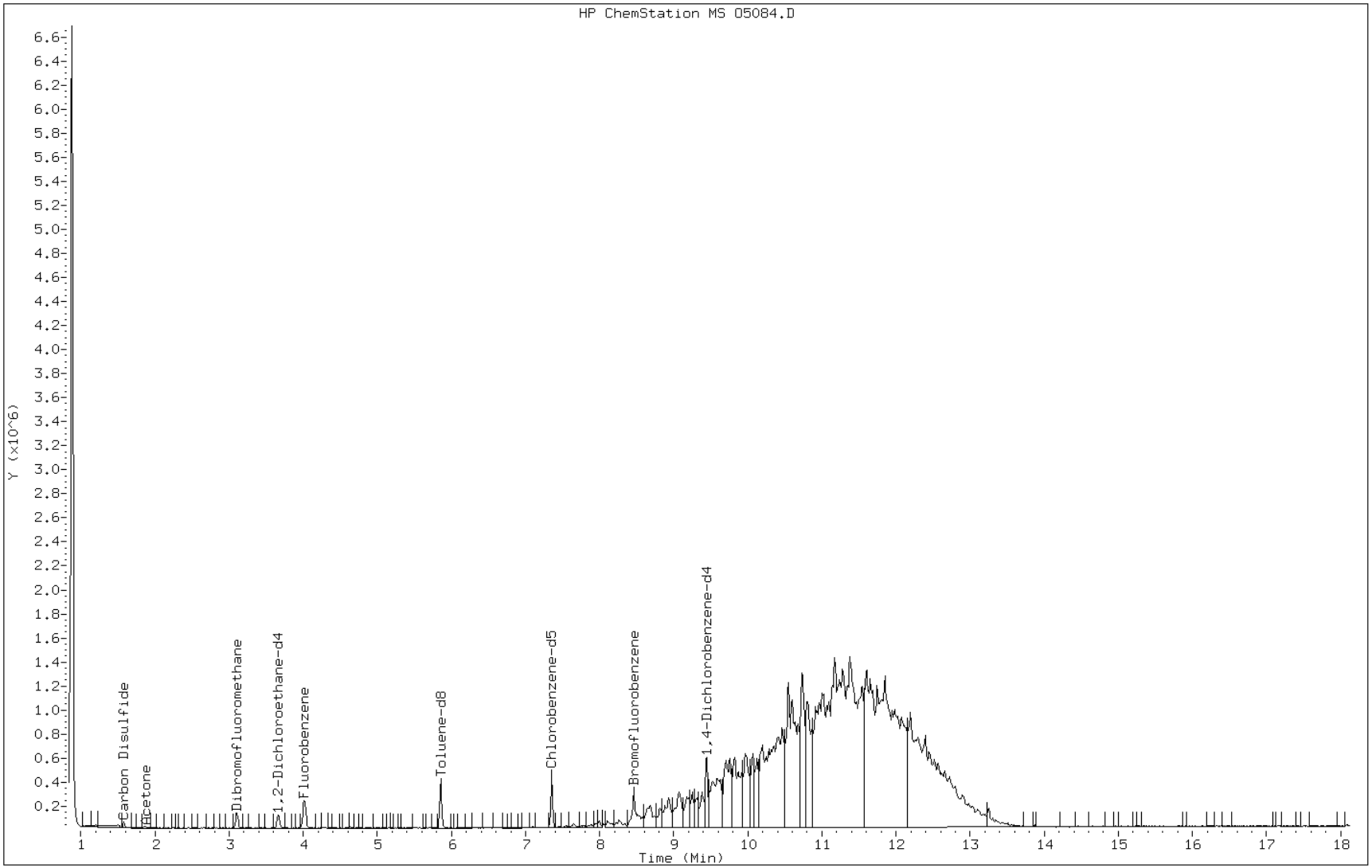
M - Compound response manually integrated.

Data File: O5084.D

Date: 24-DEC-2009 00:12

Client ID: PBL-2-30-N(10') Instrument: mso.i

Sample Info: 220-11066-C-10 Operator: D. HUMBERT



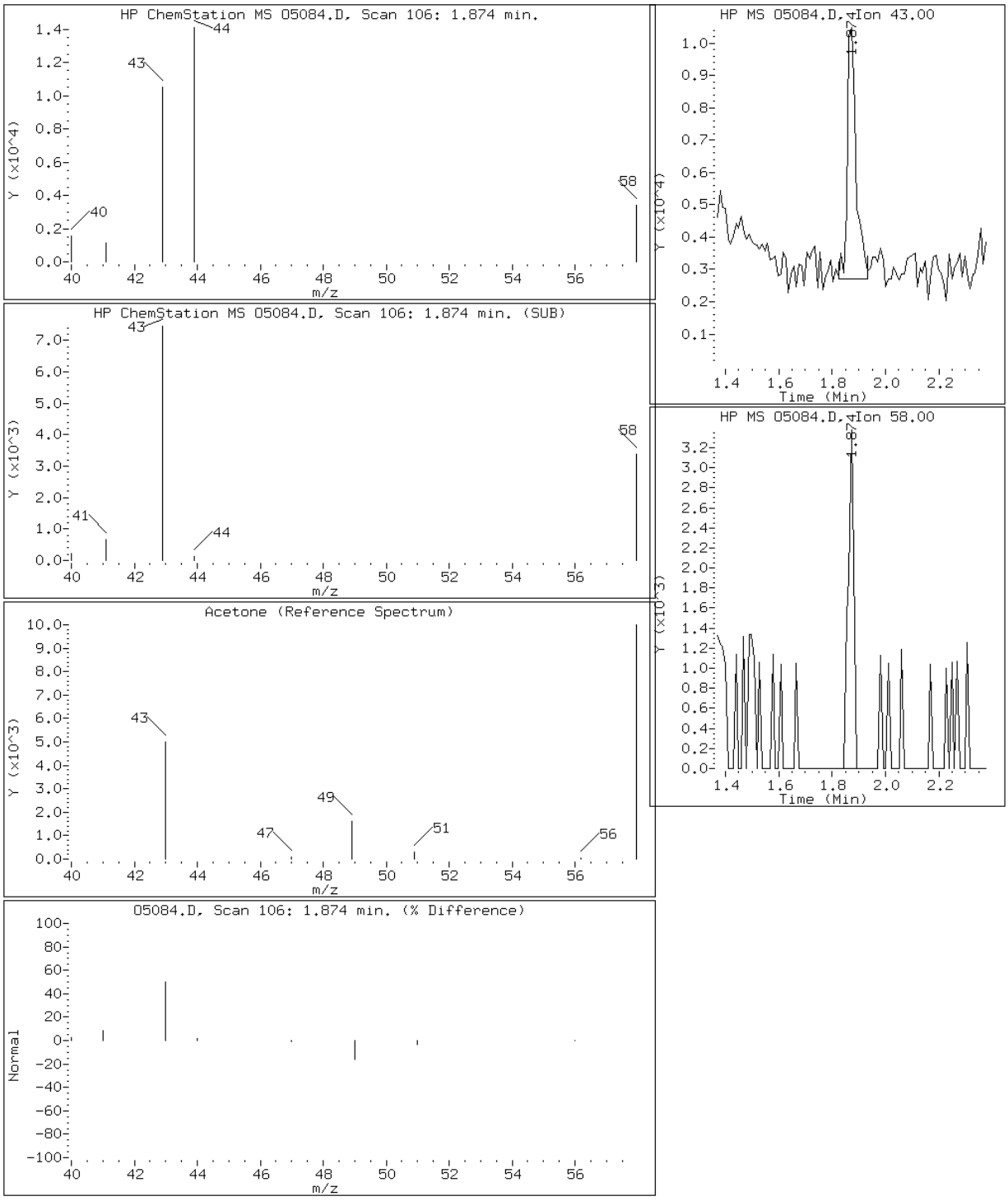
Data File: O5084.D

Date: 24-DEC-2009 00:12

Client ID: PBL-2-30-N(10') Instrument: mso.i

Sample Info: 220-11066-C-10 Operator: D. HUMBERT

21 Acetone



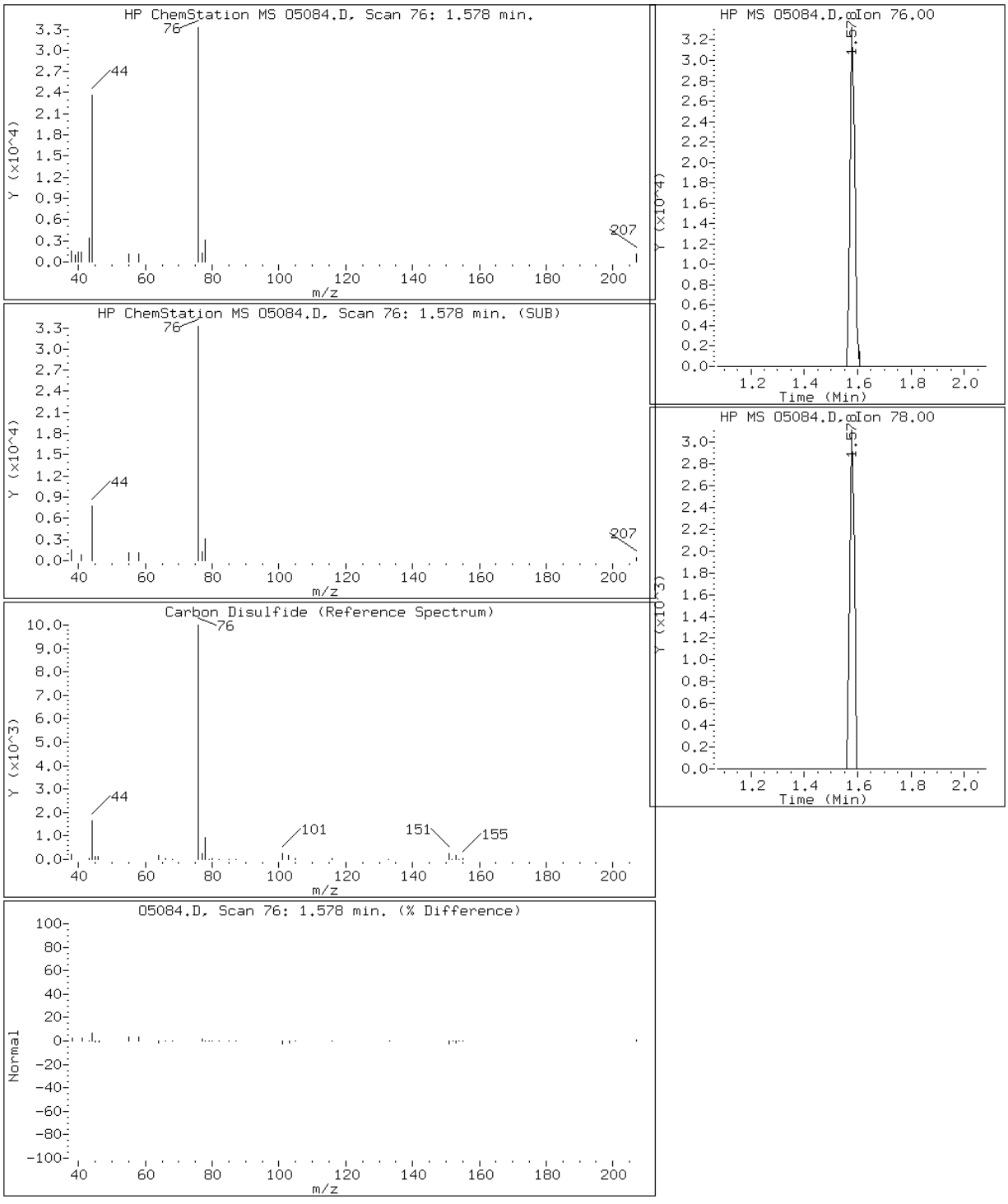
Data File: O5084.D

Date: 24-DEC-2009 00:12

Client ID: PBL-2-30-N(10') Instrument: mso.i

Sample Info: 220-11066-C-10 Operator: D. HUMBERT

15 Carbon Disulfide



Manual Integration Report

Data File: O5084.D
Inj. Date and Time: 24-DEC-2009 00:12
Instrument ID: mso.i
Client ID: PBL-2-30-N(10')
Compound: 21 Acetone
CAS #: 67-64-1
Report Date: 12/24/2009

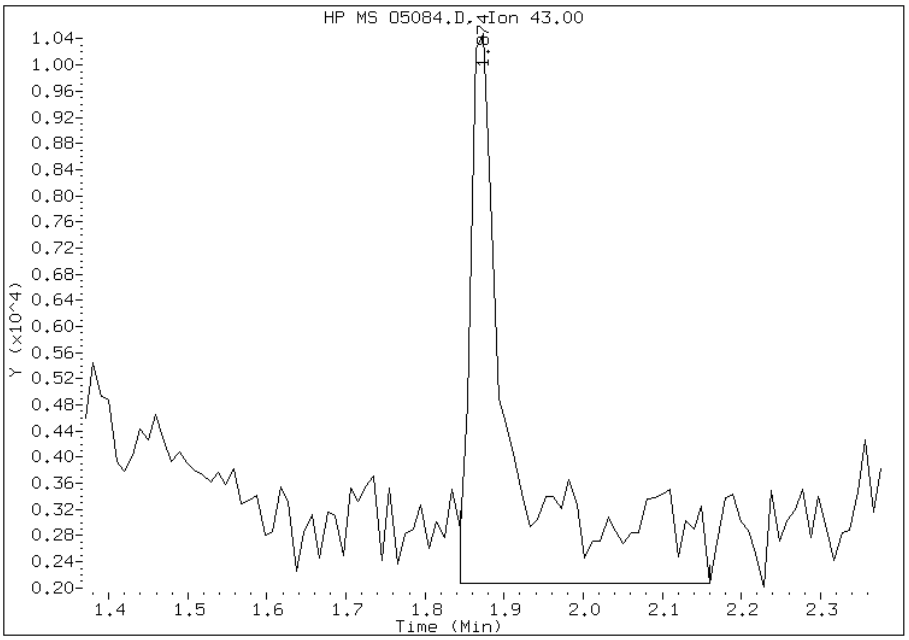
Processing Integration Results

RT: 1.87

Response: 34051

Amount: 12

Conc: 12



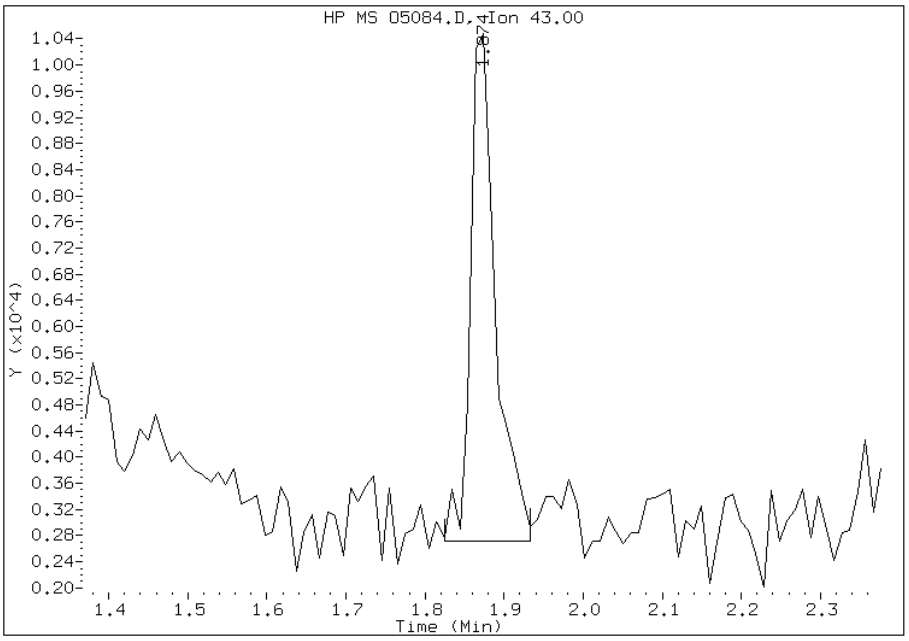
Manual Integration Results

RT: 1.87

Response: 17734

Amount: 6

Conc: 6



Manually Integrated By: larryd
Manual Integration Reason: Incorrect peak integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') F.D. | Lab Sample ID: 220-11066-11

Matrix: Solid | Lab File ID: O5085.D

Analysis Method: 8260B | Date Collected: 12/15/2009 12:00

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 00:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 19.8 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	6.2	U *	6.2	0.44
74-87-3	Chloromethane	6.2	U	6.2	0.97
75-01-4	Vinyl chloride	6.2	U	6.2	0.29
74-83-9	Bromomethane	6.2	U	6.2	2.6
75-00-3	Chloroethane	6.2	U	6.2	1.2
75-69-4	Trichlorofluoromethane	6.2	U	6.2	0.19
75-35-4	1,1-Dichloroethene	6.2	U	6.2	0.72
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	6.2	U	6.2	0.99
67-64-1	Acetone	6.9	J *	25	2.8
75-15-0	Carbon disulfide	2.3	J	6.2	0.51
79-20-9	Methyl acetate	6.2	U	6.2	0.55
75-09-2	Methylene Chloride	25	U	25	1.4
156-60-5	trans-1,2-Dichloroethene	6.2	U	6.2	0.49
1634-04-4	Methyl tert-butyl ether	6.2	U	6.2	0.26
75-34-3	1,1-Dichloroethane	6.2	U	6.2	0.37
156-59-2	cis-1,2-Dichloroethene	6.2	U	6.2	0.46
78-93-3	Methyl Ethyl Ketone	12	U	12	2.0
67-66-3	Chloroform	6.2	U	6.2	0.42
71-55-6	1,1,1-Trichloroethane	6.2	U	6.2	0.66
110-82-7	Cyclohexane	6.2	U	6.2	0.86
56-23-5	Carbon tetrachloride	6.2	U	6.2	1.2
71-43-2	Benzene	6.2	U	6.2	0.71
107-06-2	1,2-Dichloroethane	6.2	U	6.2	0.72
79-01-6	Trichloroethene	6.2	U	6.2	1.0
108-87-2	Methylcyclohexane	6.2	U	6.2	0.41
78-87-5	1,2-Dichloropropane	6.2	U	6.2	0.84
75-27-4	Bromodichloromethane	6.2	U	6.2	0.37
10061-01-5	cis-1,3-Dichloropropene	6.2	U	6.2	0.70
108-10-1	methyl isobutyl ketone	6.2	U	6.2	0.69
108-88-3	Toluene	6.2	U	6.2	0.092
10061-02-6	trans-1,3-Dichloropropene	6.2	U	6.2	0.34
79-00-5	1,1,2-Trichloroethane	6.2	U	6.2	0.46
127-18-4	Tetrachloroethene	6.2	U	6.2	1.0
591-78-6	2-Hexanone	12	U	12	1.5
124-48-1	Dibromochloromethane	6.2	U	6.2	0.44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') F.D. | Lab Sample ID: 220-11066-11

Matrix: Solid | Lab File ID: O5085.D

Analysis Method: 8260B | Date Collected: 12/15/2009 12:00

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 00:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 19.8 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	6.2	U	6.2	0.95
108-90-7	Chlorobenzene	6.2	U	6.2	0.74
100-41-4	Ethylbenzene	6.2	U	6.2	0.87
1330-20-7	Xylenes, Total	6.2	U	6.2	0.61
100-42-5	Styrene	6.2	U	6.2	0.19
75-25-2	Bromoform	6.2	U	6.2	0.76
98-82-8	Isopropylbenzene	6.2	U	6.2	0.24
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U	6.2	0.65
541-73-1	1,3-Dichlorobenzene	6.2	U	6.2	0.26
106-46-7	1,4-Dichlorobenzene	6.2	U	6.2	0.84
95-50-1	1,2-Dichlorobenzene	6.2	U	6.2	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12	5.7
120-82-1	1,2,4-Trichlorobenzene	6.2	U	6.2	0.94

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78	59-132	
460-00-4	4-Bromofluorobenzene	108	34-124	
1868-53-7	Dibromofluoromethane	75	59-123	
2037-26-5	Toluene-d8 (Surr)	72	50-118	

STL-INC

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\files\chem\VOA\mso.i\O095064.b\O5085.D
Lab Smp Id: 220-11066-C-11 Client Smp ID: PBL-2-30-N(10') F.D
Inj Date : 24-DEC-2009 00:37 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : 220-11066-C-11
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 85
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

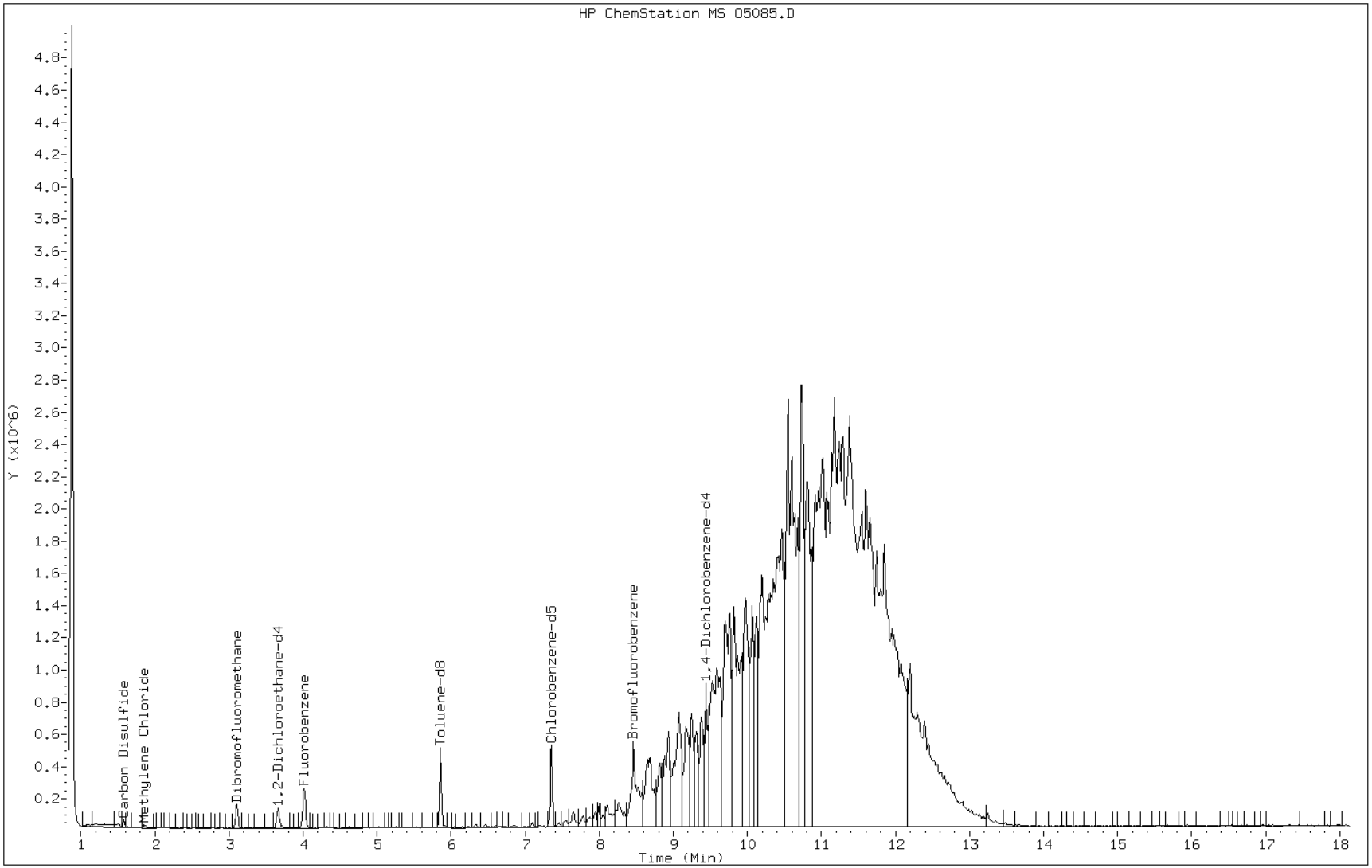
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Fluorobenzene	96	4.013	4.014	(1.000)	293015	25.0000	
15 Carbon Disulfide	76	1.578	1.579	(0.393)	39796	1.88105	2
20 Methylene Chloride	84	1.844	1.845	(0.460)	3842	0.65741	0.6
21 Acetone	43	1.874	1.875	(0.467)	18418	5.56582	6
$ 41 Dibromofluoromethane	111	3.106	3.107	(0.774)	107674	18.7108	19
$ 55 1,2-Dichloroethane-d4	65	3.658	3.669	(0.912)	129461	19.3829	19
* 75 Chlorobenzene-d5	117	7.355	7.356	(1.000)	227900	25.0000	
$ 77 Toluene-d8	98	5.857	5.858	(0.796)	314249	17.9488	18
* 95 1,4-Dichlorobenzene-d4	152	9.445	9.446	(1.000)	112858	25.0000	
$ 125 Bromofluorobenzene	95	8.460	8.460	(0.896)	196696	26.9819	27

Data File: O5085.D

Date: 24-DEC-2009 00:37

Client ID: PBL-2-30-N(10') F.D Instrument: mso.i

Sample Info: 220-11066-C-11 Operator: D. HUMBERT



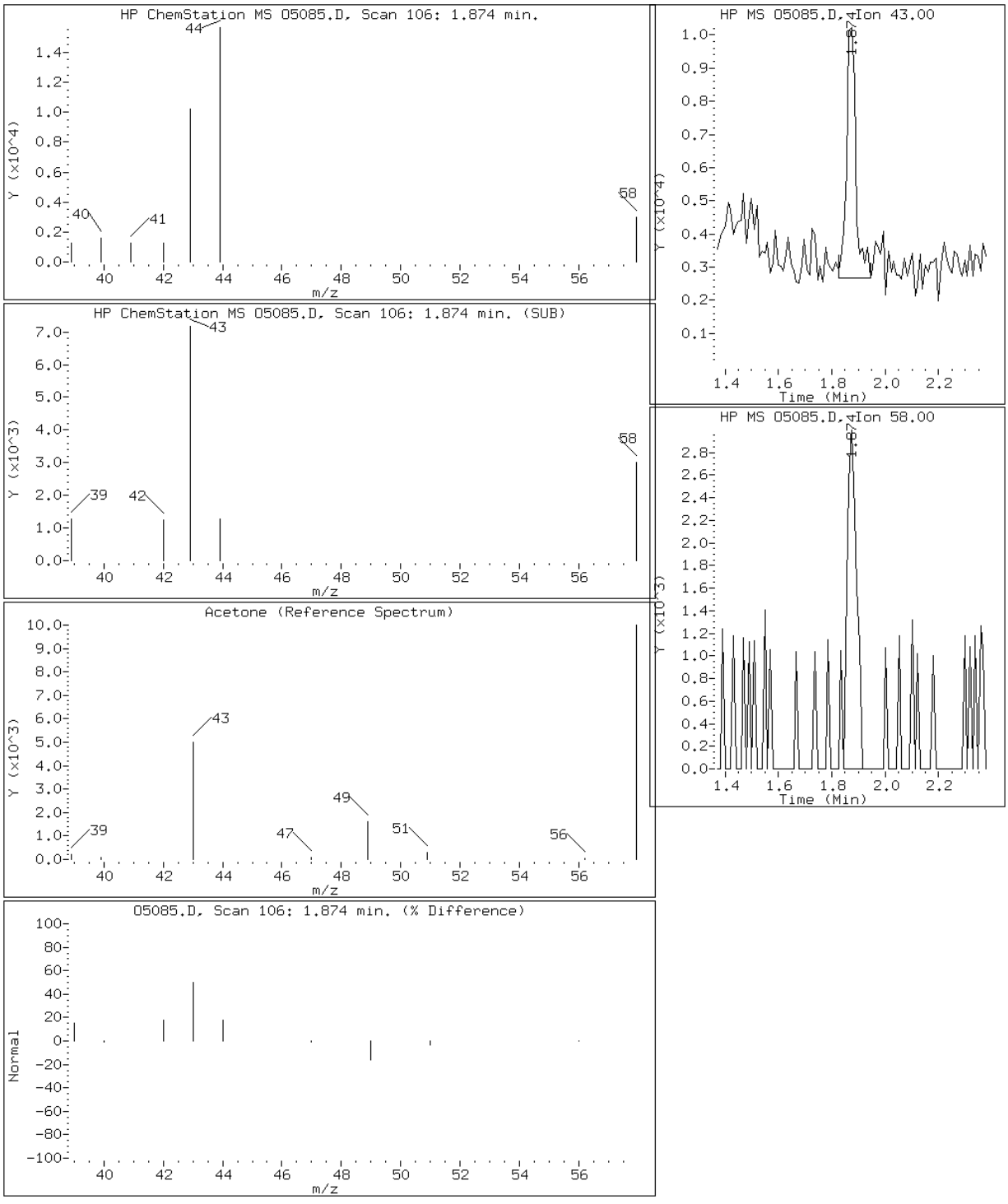
Data File: O5085.D

Date: 24-DEC-2009 00:37

Client ID: PBL-2-30-N(10') F.D Instrument: mso.i

Sample Info: 220-11066-C-11 Operator: D. HUMBERT

21 Acetone



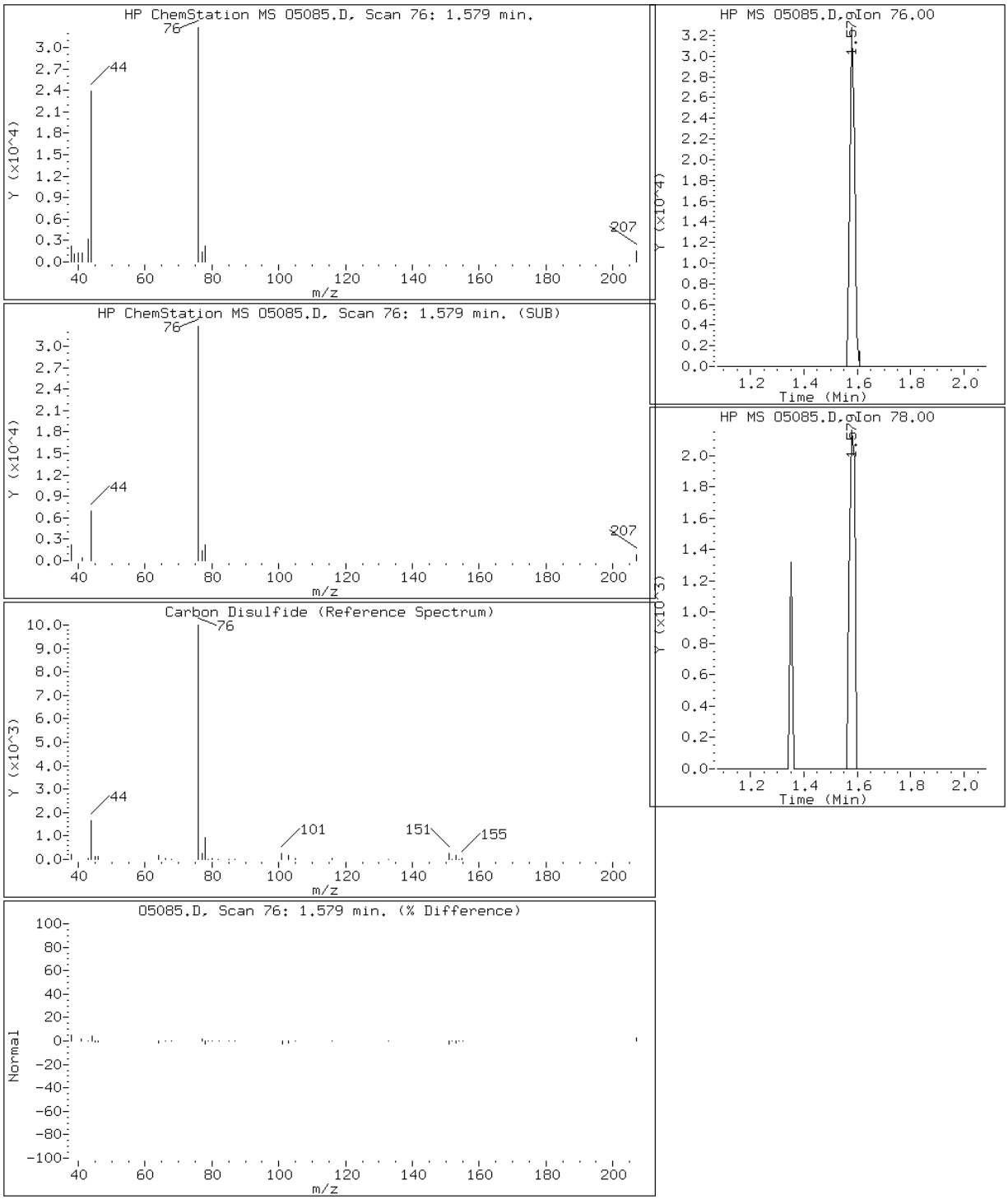
Data File: O5085.D

Date: 24-DEC-2009 00:37

Client ID: PBL-2-30-N(10') F.D Instrument: mso.i

Sample Info: 220-11066-C-11 Operator: D. HUMBERT

15 Carbon Disulfide



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') | Lab Sample ID: 220-11066-12

Matrix: Solid | Lab File ID: O5086.D

Analysis Method: 8260B | Date Collected: 12/15/2009 12:15

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 01:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 25.9 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	6.7	U *	6.7	0.47
74-87-3	Chloromethane	6.7	U	6.7	1.1
75-01-4	Vinyl chloride	6.7	U	6.7	0.31
74-83-9	Bromomethane	6.7	U	6.7	2.8
75-00-3	Chloroethane	6.7	U	6.7	1.3
75-69-4	Trichlorofluoromethane	6.7	U	6.7	0.20
75-35-4	1,1-Dichloroethene	6.7	U	6.7	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	6.7	U	6.7	1.1
67-64-1	Acetone	7.3	J *	27	3.0
75-15-0	Carbon disulfide	2.8	J	6.7	0.55
79-20-9	Methyl acetate	6.7	U	6.7	0.59
75-09-2	Methylene Chloride	27	U	27	1.5
156-60-5	trans-1,2-Dichloroethene	6.7	U	6.7	0.53
1634-04-4	Methyl tert-butyl ether	6.7	U	6.7	0.28
75-34-3	1,1-Dichloroethane	6.7	U	6.7	0.40
156-59-2	cis-1,2-Dichloroethene	6.7	U	6.7	0.50
78-93-3	Methyl Ethyl Ketone	13	U	13	2.1
67-66-3	Chloroform	6.7	U	6.7	0.46
71-55-6	1,1,1-Trichloroethane	6.7	U	6.7	0.71
110-82-7	Cyclohexane	6.7	U	6.7	0.93
56-23-5	Carbon tetrachloride	6.7	U	6.7	1.3
71-43-2	Benzene	6.7	U	6.7	0.77
107-06-2	1,2-Dichloroethane	6.7	U	6.7	0.78
79-01-6	Trichloroethene	6.7	U	6.7	1.1
108-87-2	Methylcyclohexane	6.7	U	6.7	0.45
78-87-5	1,2-Dichloropropane	6.7	U	6.7	0.90
75-27-4	Bromodichloromethane	6.7	U	6.7	0.40
10061-01-5	cis-1,3-Dichloropropene	6.7	U	6.7	0.76
108-10-1	methyl isobutyl ketone	6.7	U	6.7	0.74
108-88-3	Toluene	6.7	U	6.7	0.10
10061-02-6	trans-1,3-Dichloropropene	6.7	U	6.7	0.36
79-00-5	1,1,2-Trichloroethane	6.7	U	6.7	0.50
127-18-4	Tetrachloroethene	6.7	U	6.7	1.1
591-78-6	2-Hexanone	13	U	13	1.6
124-48-1	Dibromochloromethane	6.7	U	6.7	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') | Lab Sample ID: 220-11066-12

Matrix: Solid | Lab File ID: O5086.D

Analysis Method: 8260B | Date Collected: 12/15/2009 12:15

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 01:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: 25.9 | Level: (low/med) Low

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	6.7	U	6.7	1.0
108-90-7	Chlorobenzene	6.7	U	6.7	0.80
100-41-4	Ethylbenzene	6.7	U	6.7	0.94
1330-20-7	Xylenes, Total	6.7	U	6.7	0.66
100-42-5	Styrene	6.7	U	6.7	0.20
75-25-2	Bromoform	6.7	U	6.7	0.82
98-82-8	Isopropylbenzene	6.7	U	6.7	0.26
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U	6.7	0.70
541-73-1	1,3-Dichlorobenzene	6.7	U	6.7	0.28
106-46-7	1,4-Dichlorobenzene	6.7	U	6.7	0.90
95-50-1	1,2-Dichlorobenzene	6.7	U	6.7	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13	6.1
120-82-1	1,2,4-Trichlorobenzene	6.7	U	6.7	1.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80	59-132	
460-00-4	4-Bromofluorobenzene	65	34-124	
1868-53-7	Dibromofluoromethane	85	59-123	
2037-26-5	Toluene-d8 (Surr)	81	50-118	

STL-INC

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\files\chem\VOA\mso.i\O095064.b\O5086.D
Lab Smp Id: 220-11066-C-12 Client Smp ID: PBL-2-60-N(11')
Inj Date : 24-DEC-2009 01:01 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : 220-11066-C-12
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 86
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

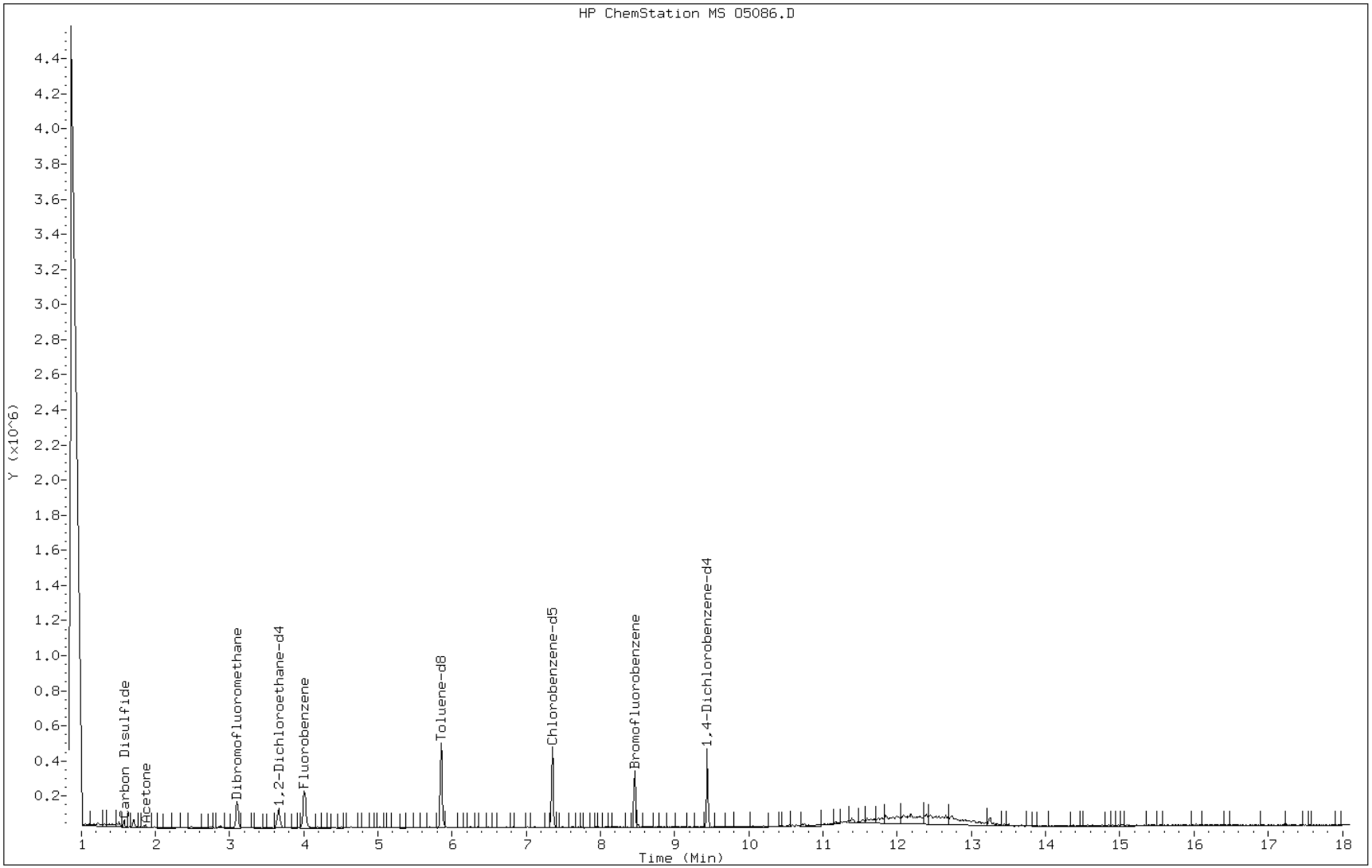
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.008	4.014	(1.000)	247638	25.0000	
	15 Carbon Disulfide	76	1.582	1.579	(0.395)	37463	2.09525	2
	20 Methylene Chloride	84	1.849	1.845	(0.461)	2152	0.43571	0.4
	21 Acetone	43	1.868	1.875	(0.466)	15136	5.41216	5
$	41 Dibromofluoromethane	111	3.101	3.107	(0.774)	103219	21.2233	21
$	55 1,2-Dichloroethane-d4	65	3.663	3.669	(0.914)	113298	20.0712	20
*	75 Chlorobenzene-d5	117	7.350	7.356	(1.000)	204728	25.0000	
$	77 Toluene-d8	98	5.851	5.858	(0.796)	316657	20.1335	20
*	95 1,4-Dichlorobenzene-d4	152	9.440	9.446	(1.000)	95914	25.0000	
$	125 Bromofluorobenzene	95	8.464	8.460	(0.897)	100593	16.2366	16

Data File: O5086.D

Date: 24-DEC-2009 01:01

Client ID: PBL-2-60-N(11') Instrument: mso.i

Sample Info: 220-11066-C-12 Operator: D. HUMBERT



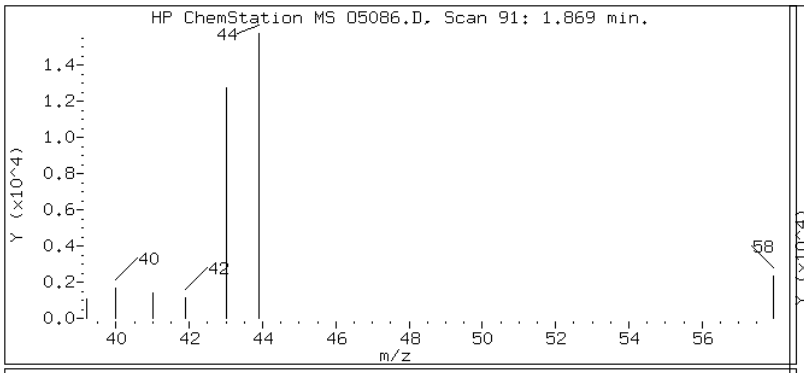
Data File: O5086.D

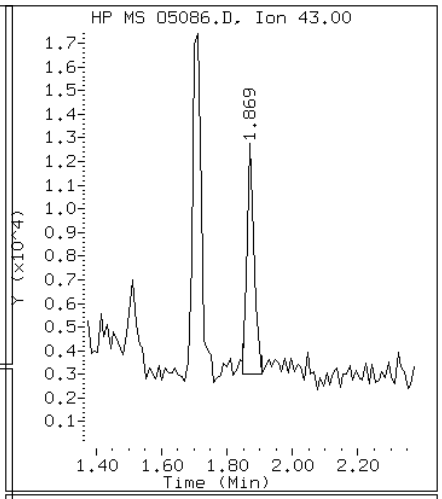
Date: 24-DEC-2009 01:01

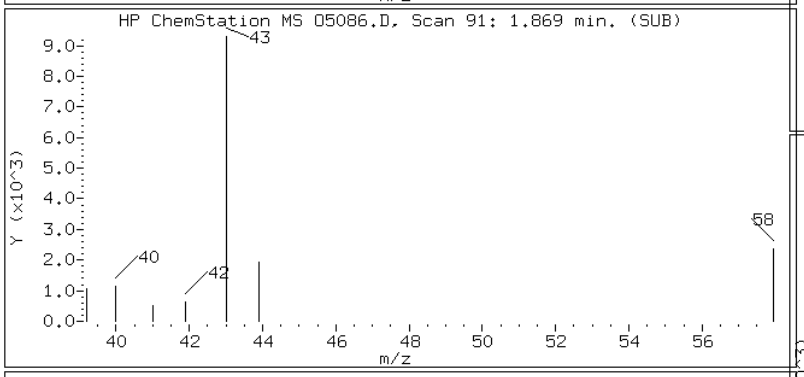
Client ID: PBL-2-60-N(11') Instrument: mso.i

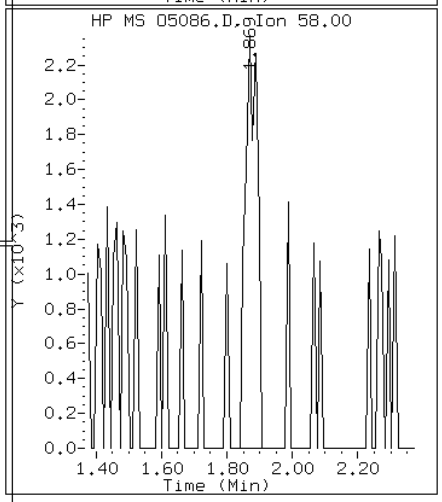
Sample Info: 220-11066-C-12 Operator: D. HUMBERT

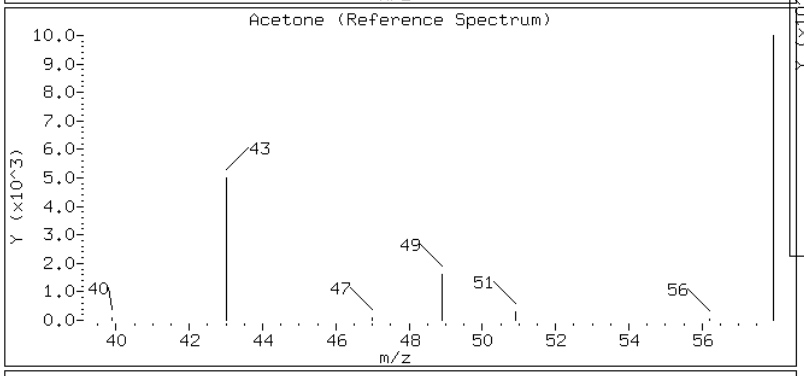
21 Acetone

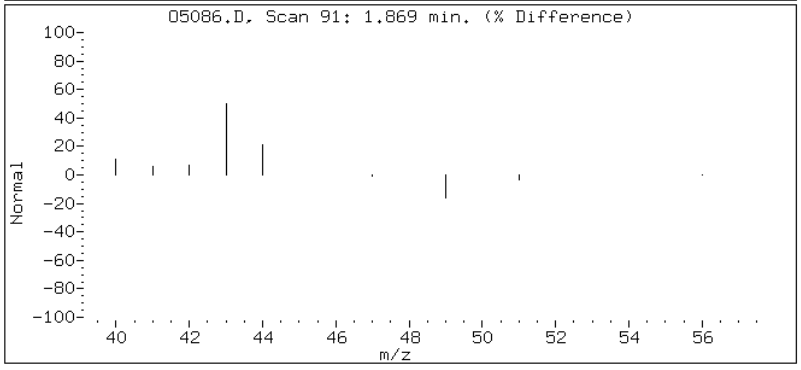












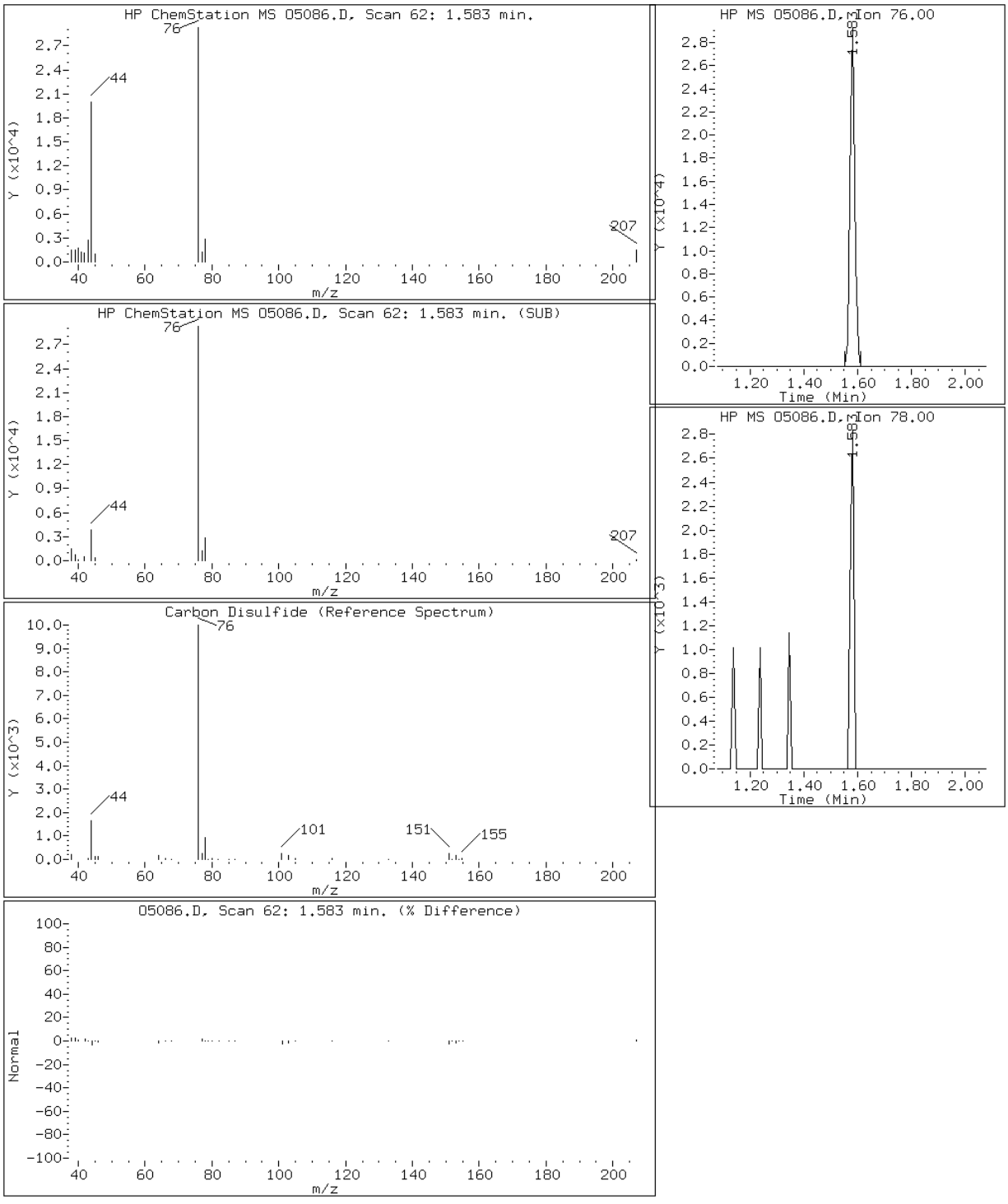
Data File: O5086.D

Date: 24-DEC-2009 01:01

Client ID: PBL-2-60-N(11') Instrument: mso.i

Sample Info: 220-11066-C-12 Operator: D. HUMBERT

15 Carbon Disulfide



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-1 | Lab Sample ID: 220-11066-14

Matrix: Water | Lab File ID: V8916.D

Analysis Method: 8260B | Date Collected: 12/15/2009 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 19:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	1.0
74-87-3	Chloromethane	5.0	U	5.0	1.1
75-01-4	Vinyl chloride	5.0	U	5.0	0.99
74-83-9	Bromomethane	5.0	U	5.0	2.1
75-00-3	Chloroethane	5.0	U	5.0	1.1
75-69-4	Trichlorofluoromethane	5.0	U	5.0	1.1
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	5.0	U	5.0	0.97
67-64-1	Acetone	5.3	J	10	1.0
75-15-0	Carbon disulfide	5.0	U	5.0	0.90
79-20-9	Methyl acetate	5.0	U	5.0	0.48
75-09-2	Methylene Chloride	5.0	U	5.0	0.78
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.76
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
75-34-3	1,1-Dichloroethane	5.0	U	5.0	1.0
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.99
78-93-3	Methyl Ethyl Ketone	4.1	J	10	1.1
67-66-3	Chloroform	5.0	U	5.0	0.67
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.69
110-82-7	Cyclohexane	5.0	U	5.0	0.70
56-23-5	Carbon tetrachloride	5.0	U	5.0	1.1
71-43-2	Benzene	5.0	U	5.0	0.74
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.72
79-01-6	Trichloroethene	5.0	U	5.0	0.62
108-87-2	Methylcyclohexane	5.0	U	5.0	0.98
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.71
75-27-4	Bromodichloromethane	5.0	U	5.0	0.48
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.28
108-10-1	methyl isobutyl ketone	10	U	10	0.38
108-88-3	Toluene	5.0	U	5.0	0.72
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.57
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
127-18-4	Tetrachloroethene	5.0	U	5.0	0.81
591-78-6	2-Hexanone	10	U	10	1.1
124-48-1	Dibromochloromethane	5.0	U	5.0	0.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-1 | Lab Sample ID: 220-11066-14

Matrix: Water | Lab File ID: V8916.D

Analysis Method: 8260B | Date Collected: 12/15/2009 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 19:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.52
108-90-7	Chlorobenzene	5.0	U	5.0	0.72
100-41-4	Ethylbenzene	5.0	U	5.0	0.87
1330-20-7	Xylenes, Total	5.0	U	5.0	2.3
100-42-5	Styrene	5.0	U	5.0	0.64
75-25-2	Bromoform	5.0	U	5.0	0.46
98-82-8	Isopropylbenzene	5.0	U	5.0	0.85
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
541-73-1	1,3-Dichlorobenzene	0.16	J	5.0	0.14
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.59
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.22
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.2
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.72

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93	65-136	
460-00-4	4-Bromofluorobenzene	89	51-142	
1868-53-7	Dibromofluoromethane	95	68-132	
2037-26-5	Toluene-d8 (Surr)	84	63-127	

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8916.D
Lab Smp Id: 220-11066-D-14 Client Smp ID: FB-1
Inj Date : 21-DEC-2009 19:27 MS Autotune Date: 17-AUG-2009 09:58
Operator : B.KOSTRZEWSKA Inst ID: msv.i
Smp Info : 220-11066-d-14
Misc Info : : ;;; ; 8260 ; 1; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8260LOW.m
Meth Date : 22-Dec-2009 10:29 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 21:55 Cal File: V8468.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.483	5.483	(1.000)	1399697	25.0000	
7	Trichlorofluoromethane	101	1.806	1.795	(0.329)	2960	0.10999	0.1
20	Methylene Chloride	84	2.697	2.692	(0.492)	2307	0.19698	0.2
21	Acetone	43	2.740	2.729	(0.500)	13061	5.25673	5
$ 41	Dibromofluoromethane	111	4.581	4.576	(0.836)	312097	23.6575	24
43	Carbon Tetrachloride	117	4.528	4.528	(0.826)	2844	0.12494	0.1
45	2-Butanone	43	4.720	4.715	(0.861)	14481	4.12229	4(M)
46	1,1-Dichloropropene	75	4.741	4.741	(0.865)	2436	0.12522	0.1(M)
$ 55	1,2-Dichloroethane-d4	65	5.152	5.152	(0.940)	375186	23.2910	23
60	Trichloroethene	130	5.691	5.680	(1.038)	2027	0.13663	0.1
* 75	Chlorobenzene-d5	117	9.251	9.251	(1.000)	926448	25.0000	
76	Toluene	91	7.399	7.404	(0.800)	12762	0.21843	0.2
$ 77	Toluene-d8	98	7.340	7.340	(0.793)	1065602	21.0498	21
80	Tetrachloroethene	164	7.869	7.869	(0.851)	1896	0.14237	0.1
88	Chlorobenzene	112	9.272	9.267	(1.002)	4678	0.14061	0.1
89	1,1,1,2-Tetrachloroethane	131	9.358	9.358	(1.012)	1493	0.11006	0.1
90	Ethylbenzene	106	9.336	9.336	(1.009)	3289	0.18210	0.2
91	Xylene (total)mp	106	9.512	9.512	(1.028)	7293	0.36230	0.4
92	Xylene (total)o	106	9.955	9.961	(1.076)	4505	0.24718	0.2
93	Styrene	104	10.019	10.019	(1.083)	4202	0.14985	0.1
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	333130	25.0000	
96	Isopropylbenzene	105	10.286	10.286	(0.895)	5003	0.11359	0.1
97	Bromobenzene	156	10.607	10.612	(0.923)	2212	0.18782	0.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
99	4-Ethyltoluene	105	10.777	10.777	(0.938)	6298	0.15778	0.2
102	n-Propylbenzene	91	10.671	10.676	(0.929)	6032	0.12897	0.1
103	2-Chlorotoluene	91	10.788	10.788	(0.939)	4806	0.14456	0.1
104	4-Chlorotoluene	91	10.943	10.937	(0.953)	4518	0.15050	0.2
105	1,3,5-Trimethylbenzene	105	10.857	10.857	(0.945)	3893	0.11690	0.1
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	6376	0.19666	0.2
110	1,3-Dichlorobenzene	146	11.423	11.423	(0.994)	2857	0.15880	0.2
112	1,2-Dichlorobenzene	146	11.829	11.823	(1.030)	2648	0.15983	0.2
113	Benzyl Chloride	126	11.706	11.701	(1.019)	639	0.19525	0.2
114	1,4-Diethylbenzene	119	11.685	11.685	(1.017)	1694	0.10346	0.1
118	1,2,4,5-Tetramethylbenzene	119	12.293	12.298	(1.070)	3494	0.12162	0.1
121	1,2,4-Trichlorobenzene	180	12.923	12.923	(1.125)	1996	0.14776	0.1
122	Hexachlorobutadiene	225	12.917	12.912	(1.125)	1119	0.16841	0.2(M)
123	Naphthalene	128	13.147	13.152	(1.144)	11699	0.46017	0.5
124	1,2,3-Trichlorobenzene	180	13.286	13.280	(1.157)	2388	0.18706	0.2
$ 125	Bromofluorobenzene	95	10.526	10.526	(0.916)	298398	22.2624	22
M 127	Xylene (total)	100				11798	0.60948	0.6

QC Flag Legend

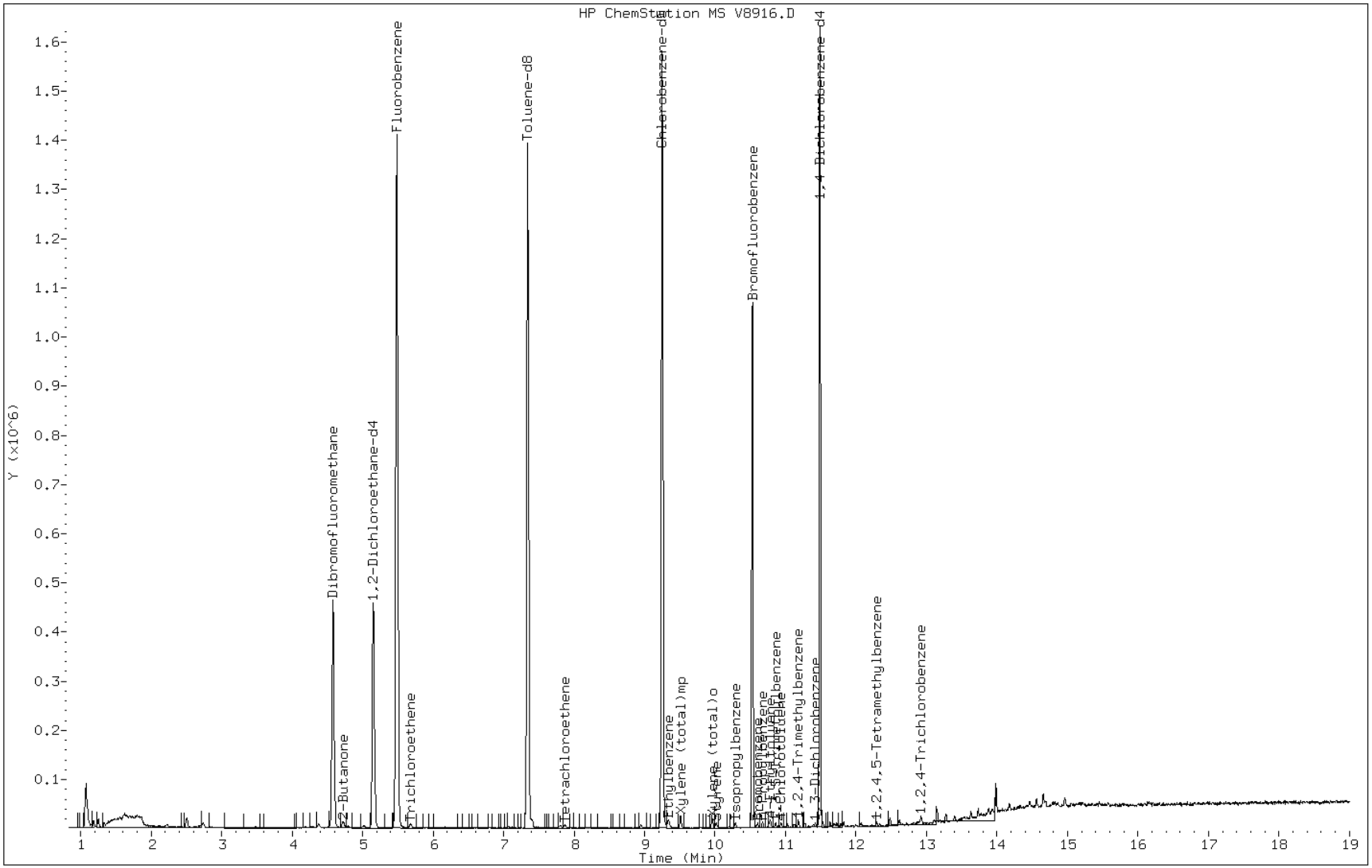
M - Compound response manually integrated.

Data File: V8916.D

Date: 21-DEC-2009 19:27

Client ID: FB-1 Instrument: msv.i

Sample Info: 220-11066-d-14 Operator: B.KOSTRZEWSKA



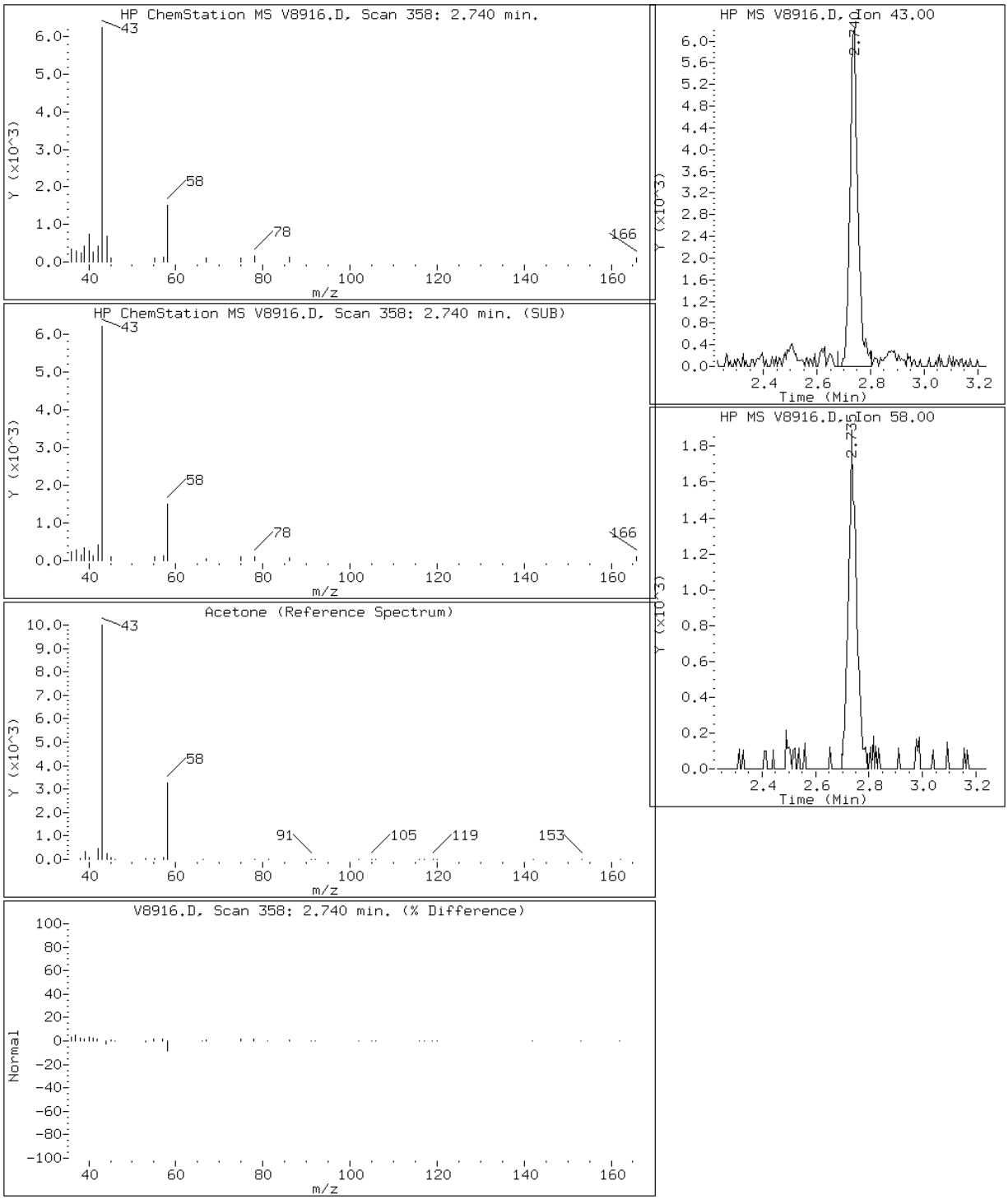
Data File: V8916.D

Date: 21-DEC-2009 19:27

Client ID: FB-1 Instrument: msv.i

Sample Info: 220-11066-d-14 Operator: B.KOSTRZEWSKA

21 Acetone



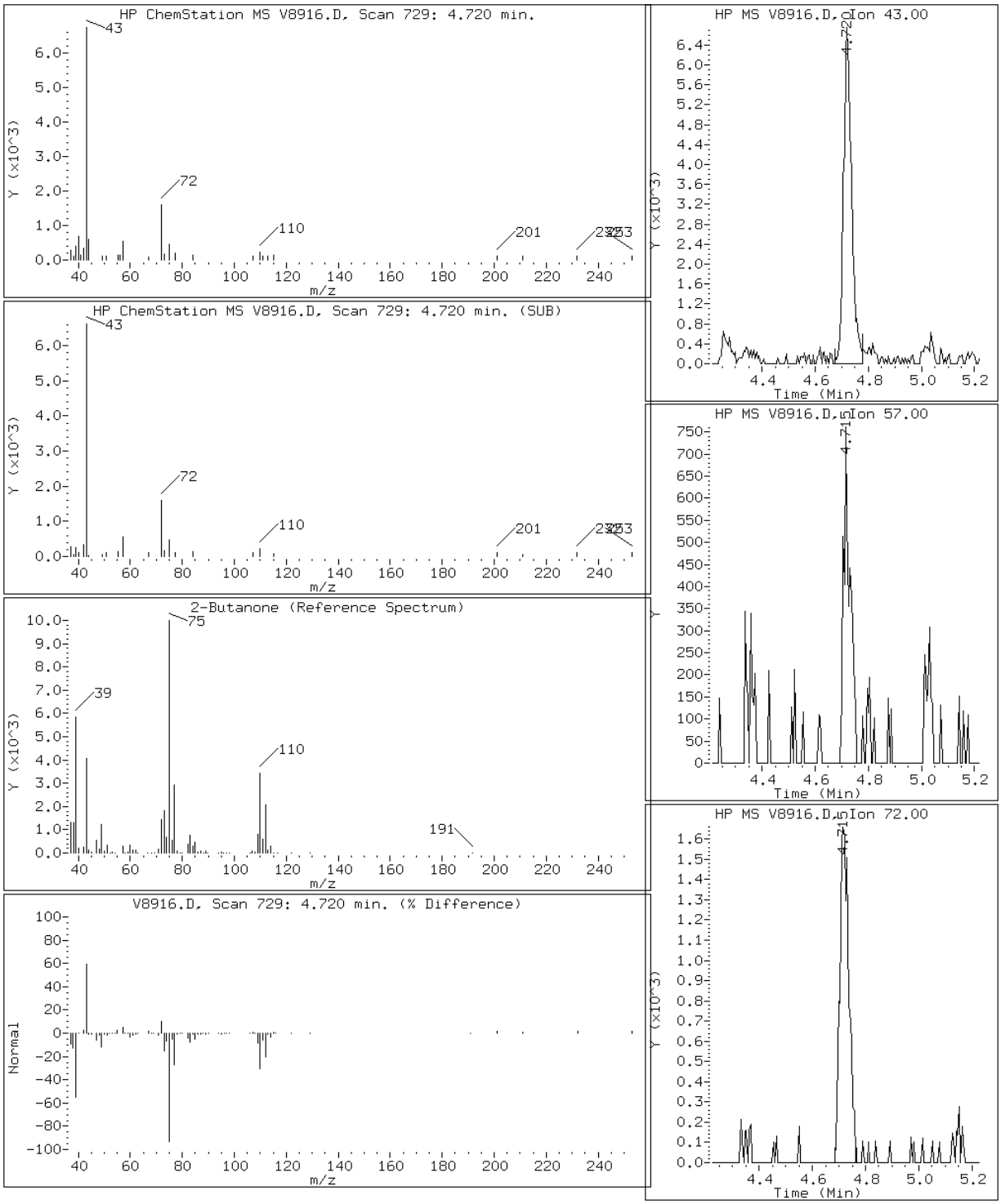
Data File: V8916.D

Date: 21-DEC-2009 19:27

Client ID: FB-1 Instrument: msv.i

Sample Info: 220-11066-d-14 Operator: B.KOSTRZEWSKA

45 2-Butanone



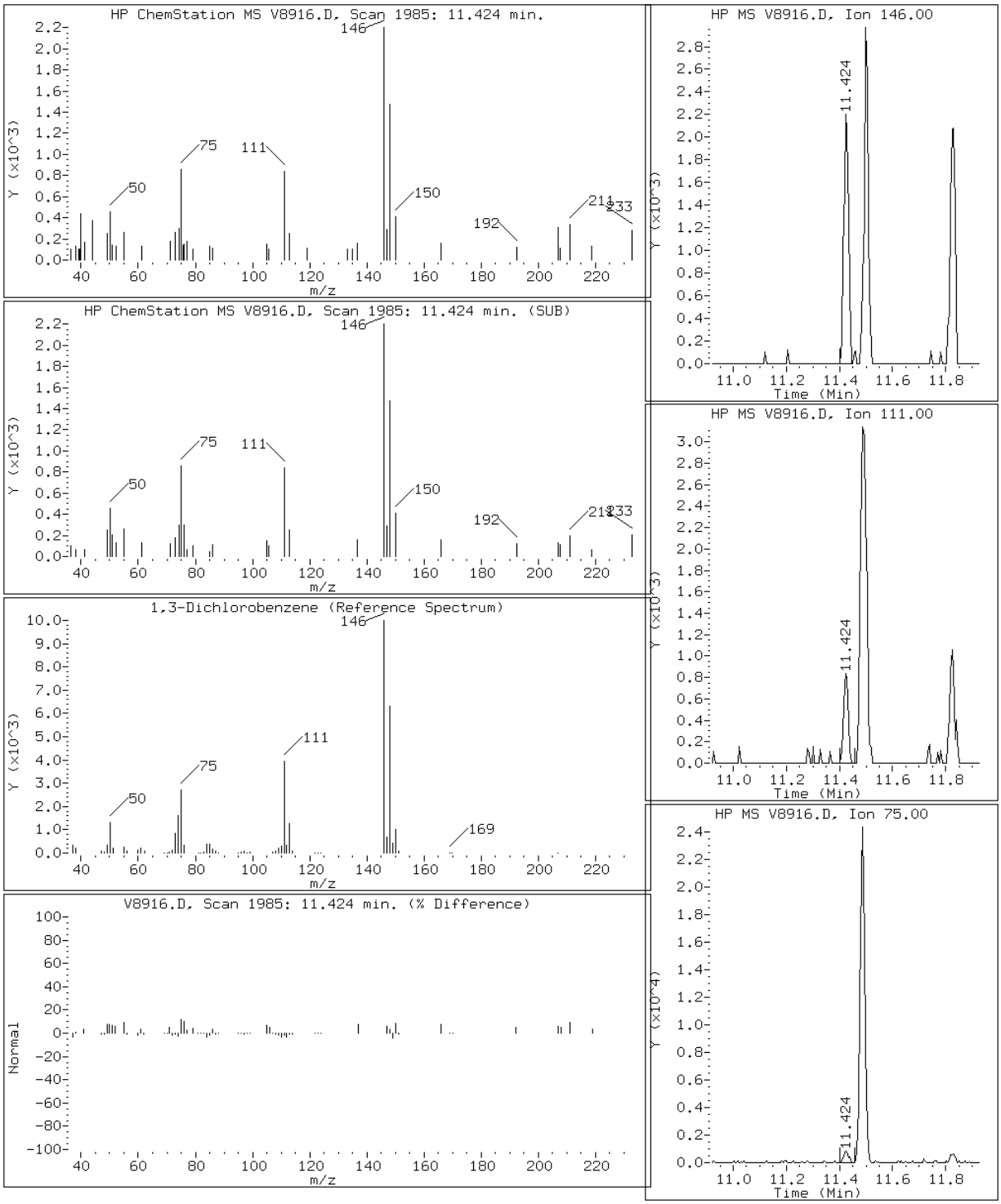
Data File: V8916.D

Date: 21-DEC-2009 19:27

Client ID: FB-1 Instrument: msv.i

Sample Info: 220-11066-d-14 Operator: B.KOSTRZEWSKA

110 1,3-Dichlorobenzene



Manual Integration Report

Data File: V8916.D
Inj. Date and Time: 21-DEC-2009 19:27
Instrument ID: msv.i
Client ID: FB-1
Compound: 45 2-Butanone
CAS #: 78-93-3
Report Date: 12/22/2009

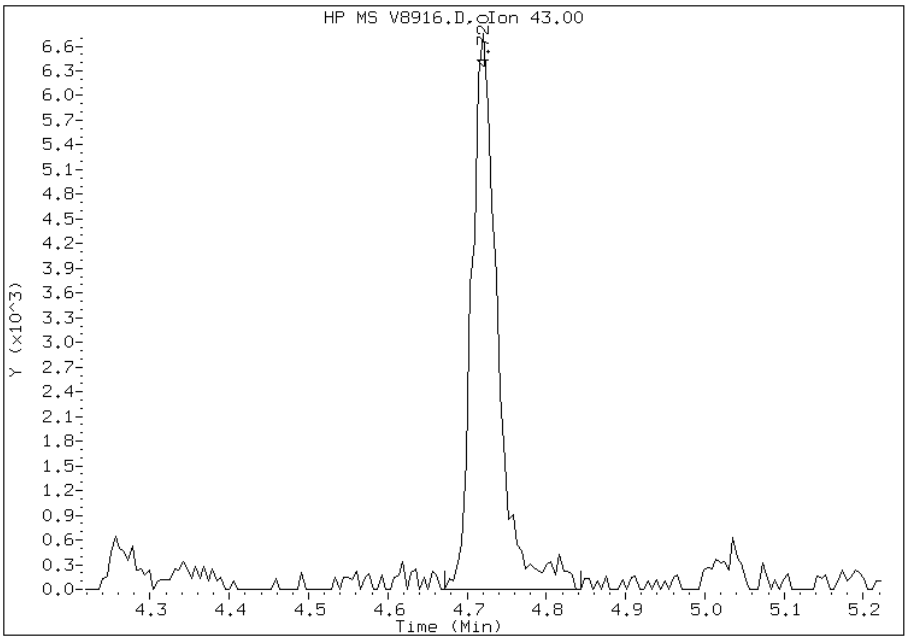
Processing Integration Results

RT: 4.72

Response: 15301

Amount: 4

Conc: 4



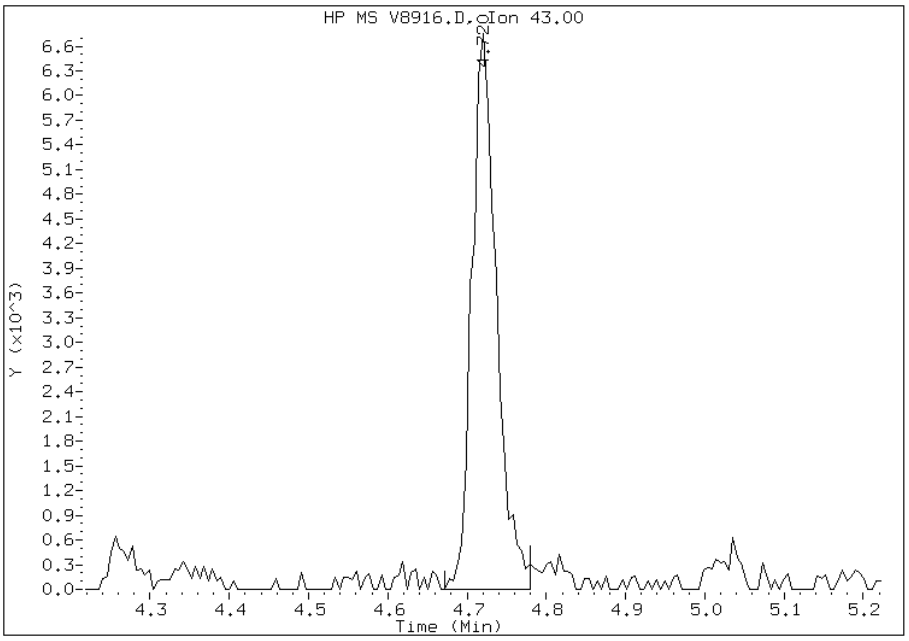
Manual Integration Results

RT: 4.72

Response: 14481

Amount: 4

Conc: 4



Manually Integrated By: barbara
Manual Integration Reason: Incorrect peak integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-2 | Lab Sample ID: 220-11066-15

Matrix: Water | Lab File ID: V8917.D

Analysis Method: 8260B | Date Collected: 12/15/2009 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 19:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	1.0
74-87-3	Chloromethane	5.0	U	5.0	1.1
75-01-4	Vinyl chloride	5.0	U	5.0	0.99
74-83-9	Bromomethane	5.0	U	5.0	2.1
75-00-3	Chloroethane	5.0	U	5.0	1.1
75-69-4	Trichlorofluoromethane	5.0	U	5.0	1.1
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	5.0	U	5.0	0.97
67-64-1	Acetone	5.4	J	10	1.0
75-15-0	Carbon disulfide	5.0	U	5.0	0.90
79-20-9	Methyl acetate	5.0	U	5.0	0.48
75-09-2	Methylene Chloride	5.0	U	5.0	0.78
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.76
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
75-34-3	1,1-Dichloroethane	5.0	U	5.0	1.0
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.99
78-93-3	Methyl Ethyl Ketone	3.8	J	10	1.1
67-66-3	Chloroform	5.0	U	5.0	0.67
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.69
110-82-7	Cyclohexane	5.0	U	5.0	0.70
56-23-5	Carbon tetrachloride	5.0	U	5.0	1.1
71-43-2	Benzene	5.0	U	5.0	0.74
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.72
79-01-6	Trichloroethene	5.0	U	5.0	0.62
108-87-2	Methylcyclohexane	5.0	U	5.0	0.98
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.71
75-27-4	Bromodichloromethane	5.0	U	5.0	0.48
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.28
108-10-1	methyl isobutyl ketone	10	U	10	0.38
108-88-3	Toluene	5.0	U	5.0	0.72
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.57
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
127-18-4	Tetrachloroethene	5.0	U	5.0	0.81
591-78-6	2-Hexanone	10	U	10	1.1
124-48-1	Dibromochloromethane	5.0	U	5.0	0.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-2 | Lab Sample ID: 220-11066-15

Matrix: Water | Lab File ID: V8917.D

Analysis Method: 8260B | Date Collected: 12/15/2009 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 19:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.52
108-90-7	Chlorobenzene	5.0	U	5.0	0.72
100-41-4	Ethylbenzene	5.0	U	5.0	0.87
1330-20-7	Xylenes, Total	5.0	U	5.0	2.3
100-42-5	Styrene	5.0	U	5.0	0.64
75-25-2	Bromoform	5.0	U	5.0	0.46
98-82-8	Isopropylbenzene	5.0	U	5.0	0.85
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.14
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.59
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.22
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.2
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.72

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95	65-136	
460-00-4	4-Bromofluorobenzene	91	51-142	
1868-53-7	Dibromofluoromethane	96	68-132	
2037-26-5	Toluene-d8 (Surr)	85	63-127	

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8917.D
Lab Smp Id: 220-11066-D-15 Client Smp ID: FB-2
Inj Date : 21-DEC-2009 19:54 MS Autotune Date: 17-AUG-2009 09:58
Operator : B.KOSTRZEWSKA Inst ID: msv.i
Smp Info : 220-11066-d-15
Misc Info : : ;;; ; 8260 ; 1; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8260LOW.m
Meth Date : 22-Dec-2009 10:29 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 21:55 Cal File: V8468.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	1 Fluorobenzene	96	5.488	5.483	(1.000)	1339382	25.0000	
	20 Methylene Chloride	84	2.692	2.692	(0.491)	2706	0.24146	0.2
	21 Acetone	43	2.735	2.729	(0.498)	12941	5.44297	5
$	41 Dibromofluoromethane	111	4.581	4.576	(0.835)	301540	23.8866	24
	45 2-Butanone	43	4.725	4.715	(0.861)	12737	3.78910	4
$	55 1,2-Dichloroethane-d4	65	5.152	5.152	(0.939)	366872	23.8005	24
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	898247	25.0000	
	76 Toluene	91	7.399	7.404	(0.800)	9022	0.15927	0.2
$	77 Toluene-d8	98	7.340	7.340	(0.793)	1042456	21.2391	21
	90 Ethylbenzene	106	9.336	9.336	(1.009)	2418	0.13808	0.1
	91 Xylene (total)mp	106	9.512	9.512	(1.028)	4853	0.24865	0.2
	92 Xylene (total)o	106	9.966	9.961	(1.077)	2958	0.16740	0.2
*	95 1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	317167	25.0000	
	97 Bromobenzene	156	10.606	10.612	(0.923)	1192	0.10631	0.1
	99 4-Ethyltoluene	105	10.777	10.777	(0.938)	4518	0.11888	0.1
	103 2-Chlorotoluene	91	10.793	10.788	(0.940)	3335	0.10537	0.1
	104 4-Chlorotoluene	91	10.937	10.937	(0.952)	3001	0.10500	0.1
	107 1,2,4-Trimethylbenzene	105	11.178	11.183	(0.973)	4685	0.15177	0.2
	110 1,3-Dichlorobenzene	146	11.428	11.423	(0.995)	2142	0.12505	0.1
	112 1,2-Dichlorobenzene	146	11.829	11.823	(1.030)	2153	0.13649	0.1
	121 1,2,4-Trichlorobenzene	180	12.923	12.923	(1.125)	1685	0.13101	0.1
	123 Naphthalene	128	13.152	13.152	(1.145)	8795	0.36335	0.4
	124 1,2,3-Trichlorobenzene	180	13.286	13.280	(1.157)	1599	0.13156	0.1

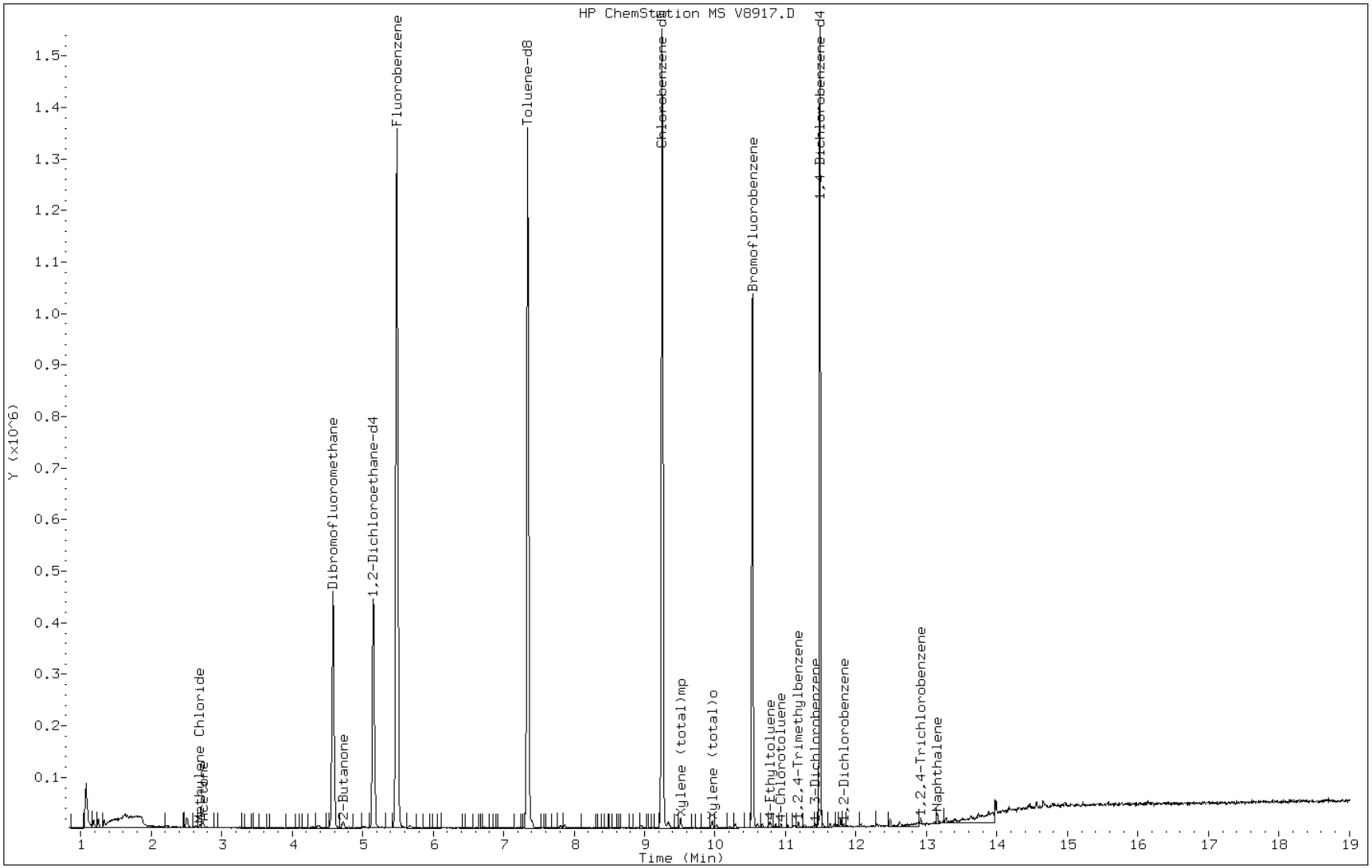
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 125 Bromofluorobenzene	95	10.526	10.526	(0.916)	289691	22.7006	23
M 127 Xylene (total)	100				7811	0.41605	0.4

Data File: V8917.D

Date: 21-DEC-2009 19:54

Client ID: FB-2 Instrument: msv.i

Sample Info: 220-11066-d-15 Operator: B.KOSTRZEWSKA



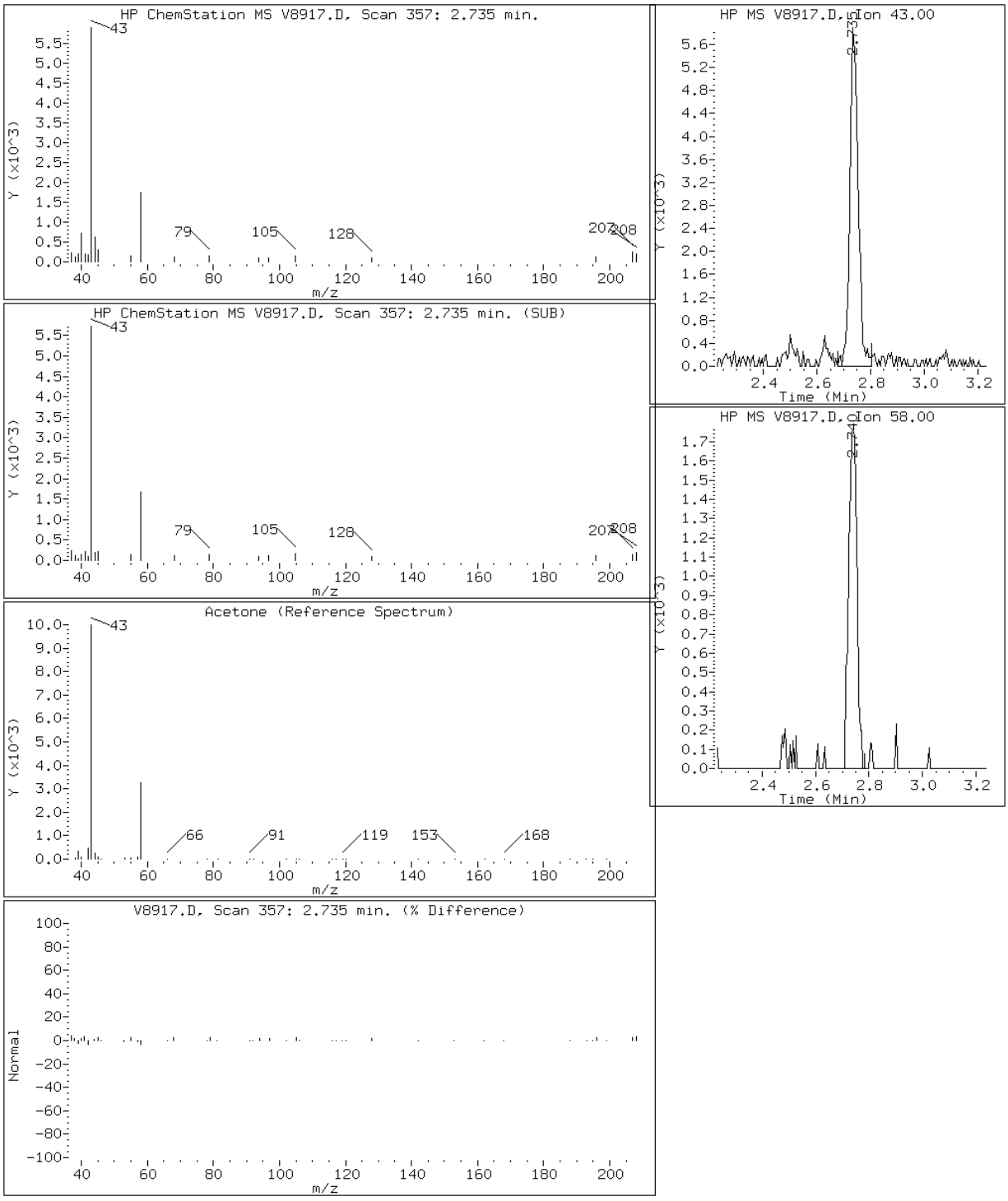
Data File: V8917.D

Date: 21-DEC-2009 19:54

Client ID: FB-2 Instrument: msv.i

Sample Info: 220-11066-d-15 Operator: B.KOSTRZEWSKA

21 Acetone



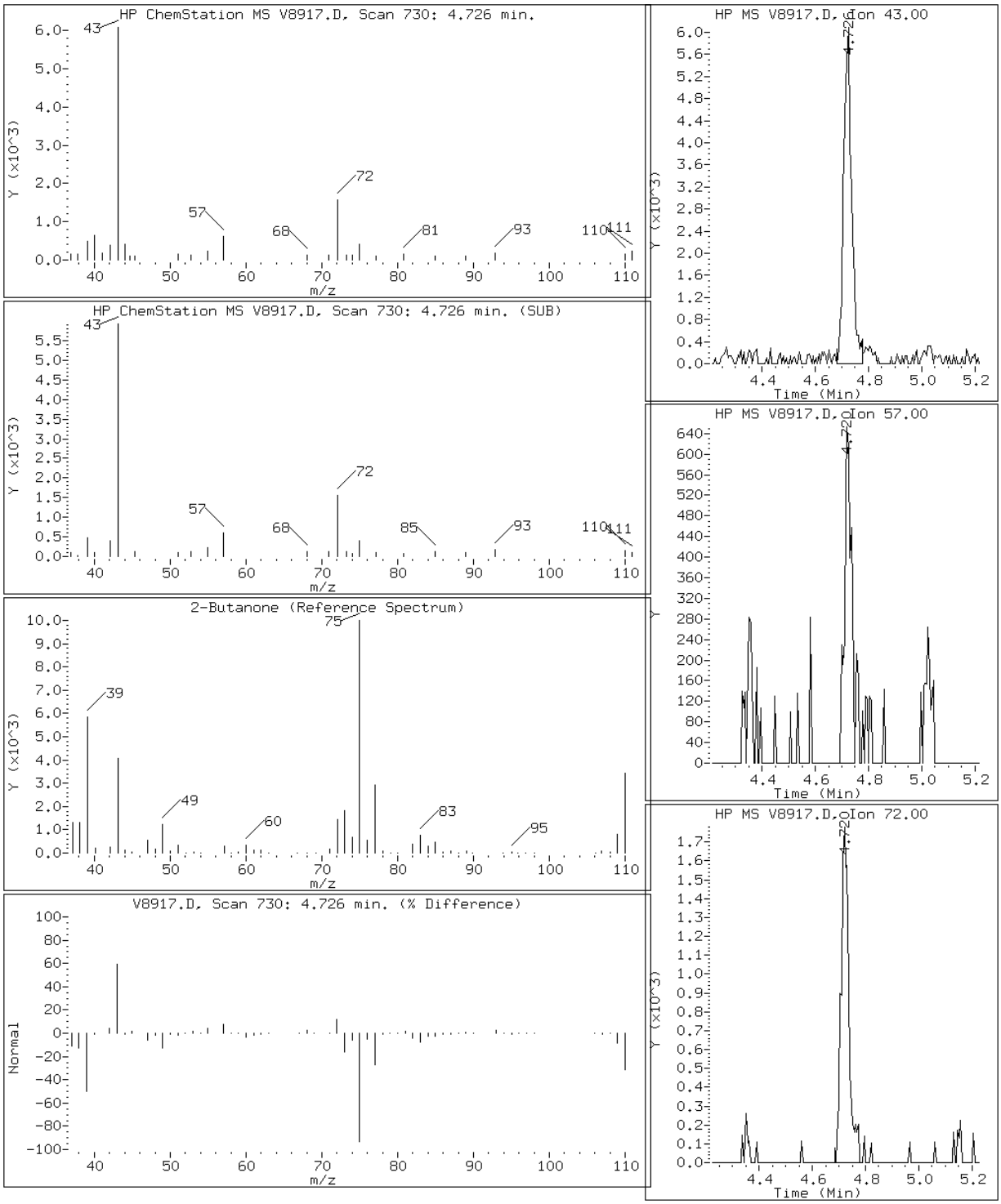
Data File: V8917.D

Date: 21-DEC-2009 19:54

Client ID: FB-2 Instrument: msv.i

Sample Info: 220-11066-d-15 Operator: B.KOSTRZEWSKA

45 2-Butanone



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-3 | Lab Sample ID: 220-11066-16

Matrix: Water | Lab File ID: V8918.D

Analysis Method: 8260B | Date Collected: 12/15/2009 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	1.0
74-87-3	Chloromethane	5.0	U	5.0	1.1
75-01-4	Vinyl chloride	5.0	U	5.0	0.99
74-83-9	Bromomethane	5.0	U	5.0	2.1
75-00-3	Chloroethane	5.0	U	5.0	1.1
75-69-4	Trichlorofluoromethane	5.0	U	5.0	1.1
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	5.0	U	5.0	0.97
67-64-1	Acetone	4.4	J	10	1.0
75-15-0	Carbon disulfide	5.0	U	5.0	0.90
79-20-9	Methyl acetate	5.0	U	5.0	0.48
75-09-2	Methylene Chloride	5.0	U	5.0	0.78
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.76
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
75-34-3	1,1-Dichloroethane	5.0	U	5.0	1.0
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.99
78-93-3	Methyl Ethyl Ketone	4.0	J	10	1.1
67-66-3	Chloroform	5.0	U	5.0	0.67
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.69
110-82-7	Cyclohexane	5.0	U	5.0	0.70
56-23-5	Carbon tetrachloride	5.0	U	5.0	1.1
71-43-2	Benzene	5.0	U	5.0	0.74
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.72
79-01-6	Trichloroethene	5.0	U	5.0	0.62
108-87-2	Methylcyclohexane	5.0	U	5.0	0.98
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.71
75-27-4	Bromodichloromethane	5.0	U	5.0	0.48
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.28
108-10-1	methyl isobutyl ketone	10	U	10	0.38
108-88-3	Toluene	5.0	U	5.0	0.72
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.57
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
127-18-4	Tetrachloroethene	5.0	U	5.0	0.81
591-78-6	2-Hexanone	10	U	10	1.1
124-48-1	Dibromochloromethane	5.0	U	5.0	0.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-3 | Lab Sample ID: 220-11066-16

Matrix: Water | Lab File ID: V8918.D

Analysis Method: 8260B | Date Collected: 12/15/2009 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.52
108-90-7	Chlorobenzene	5.0	U	5.0	0.72
100-41-4	Ethylbenzene	5.0	U	5.0	0.87
1330-20-7	Xylenes, Total	5.0	U	5.0	2.3
100-42-5	Styrene	5.0	U	5.0	0.64
75-25-2	Bromoform	5.0	U	5.0	0.46
98-82-8	Isopropylbenzene	5.0	U	5.0	0.85
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.14
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.59
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.22
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.2
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.72

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96	65-136	
460-00-4	4-Bromofluorobenzene	89	51-142	
1868-53-7	Dibromofluoromethane	96	68-132	
2037-26-5	Toluene-d8 (Surr)	84	63-127	

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8918.D
Lab Smp Id: 220-11066-E-16 Client Smp ID: FB-3
Inj Date : 21-DEC-2009 20:21 MS Autotune Date: 17-AUG-2009 09:58
Operator : B.KOSTRZEWSKA Inst ID: msv.i
Smp Info : 220-11066-e-16
Misc Info : : ;;; ; 8260 ; 1; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8260LOW.m
Meth Date : 22-Dec-2009 10:29 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 21:55 Cal File: V8468.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

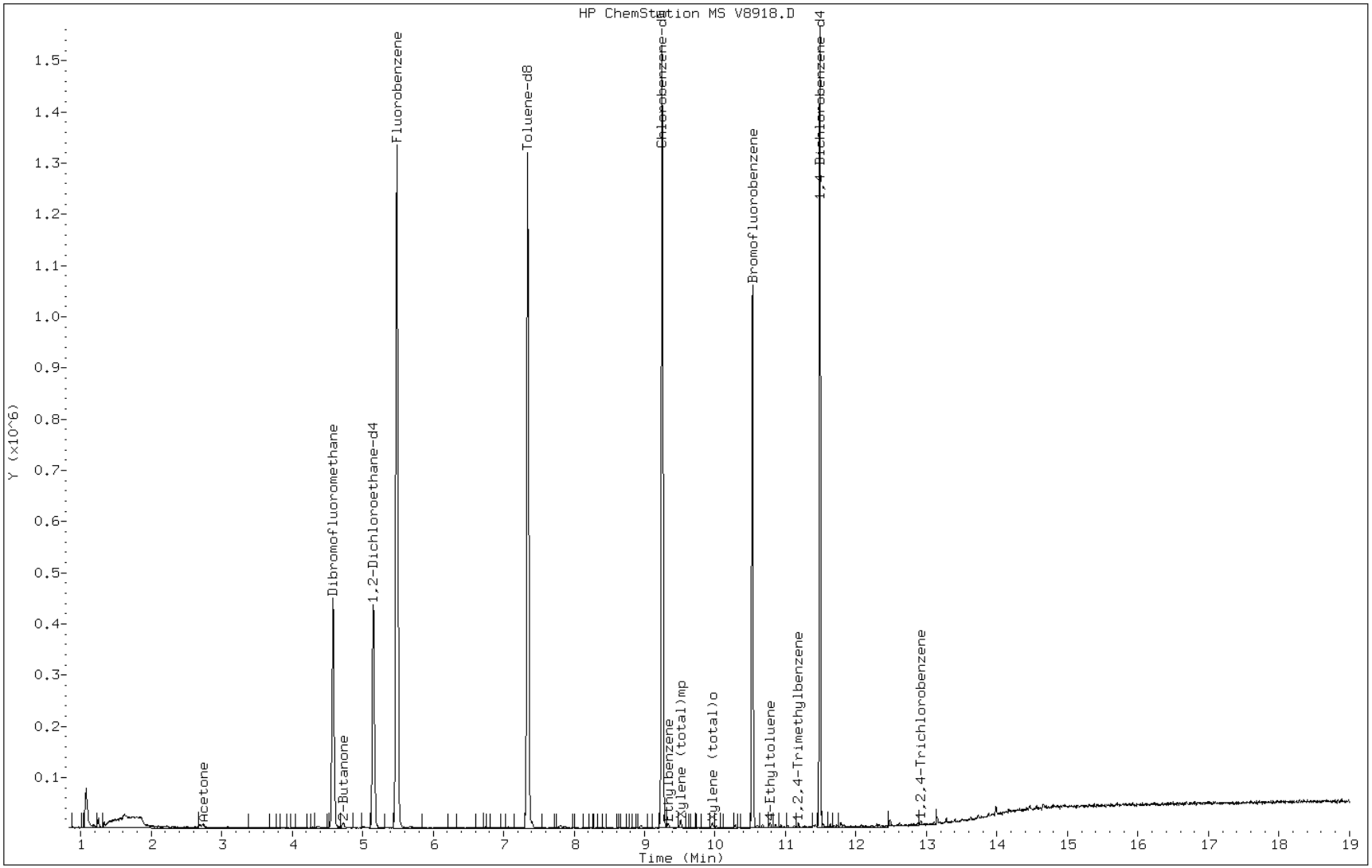
		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	1 Fluorobenzene	96	5.488	5.483	(1.000)	1320817	25.0000	
	20 Methylene Chloride	84	2.692	2.692	(0.490)	2503	0.22648	0.2
	21 Acetone	43	2.734	2.729	(0.498)	10363	4.41993	4
$	41 Dibromofluoromethane	111	4.581	4.576	(0.835)	299473	24.0563	24
	45 2-Butanone	43	4.720	4.715	(0.860)	13184	3.97721	4
$	55 1,2-Dichloroethane-d4	65	5.152	5.152	(0.939)	362968	23.8782	24
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	893447	25.0000	
	76 Toluene	91	7.399	7.404	(0.800)	6626	0.11760	0.1
$	77 Toluene-d8	98	7.340	7.340	(0.793)	1028769	21.0729	21
	90 Ethylbenzene	106	9.336	9.336	(1.009)	1987	0.11408	0.1
	91 Xylene (total)mp	106	9.512	9.512	(1.028)	3724	0.19183	0.2
	92 Xylene (total)o	106	9.961	9.961	(1.077)	2920	0.16613	0.2
*	95 1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	320963	25.0000	
	99 4-Ethyltoluene	105	10.777	10.777	(0.938)	4128	0.10734	0.1
	107 1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	3871	0.12392	0.1
	121 1,2,4-Trichlorobenzene	180	12.928	12.923	(1.125)	1469	0.11287	0.1
	123 Naphthalene	128	13.147	13.152	(1.144)	6476	0.26438	0.3
	124 1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	1262	0.10260	0.1
$	125 Bromofluorobenzene	95	10.526	10.526	(0.916)	286643	22.1961	22
M	127 Xylene (total)	100				6644	0.35796	0.4

Data File: V8918.D

Date: 21-DEC-2009 20:21

Client ID: FB-3 Instrument: msv.i

Sample Info: 220-11066-e-16 Operator: B.KOSTRZEWSKA



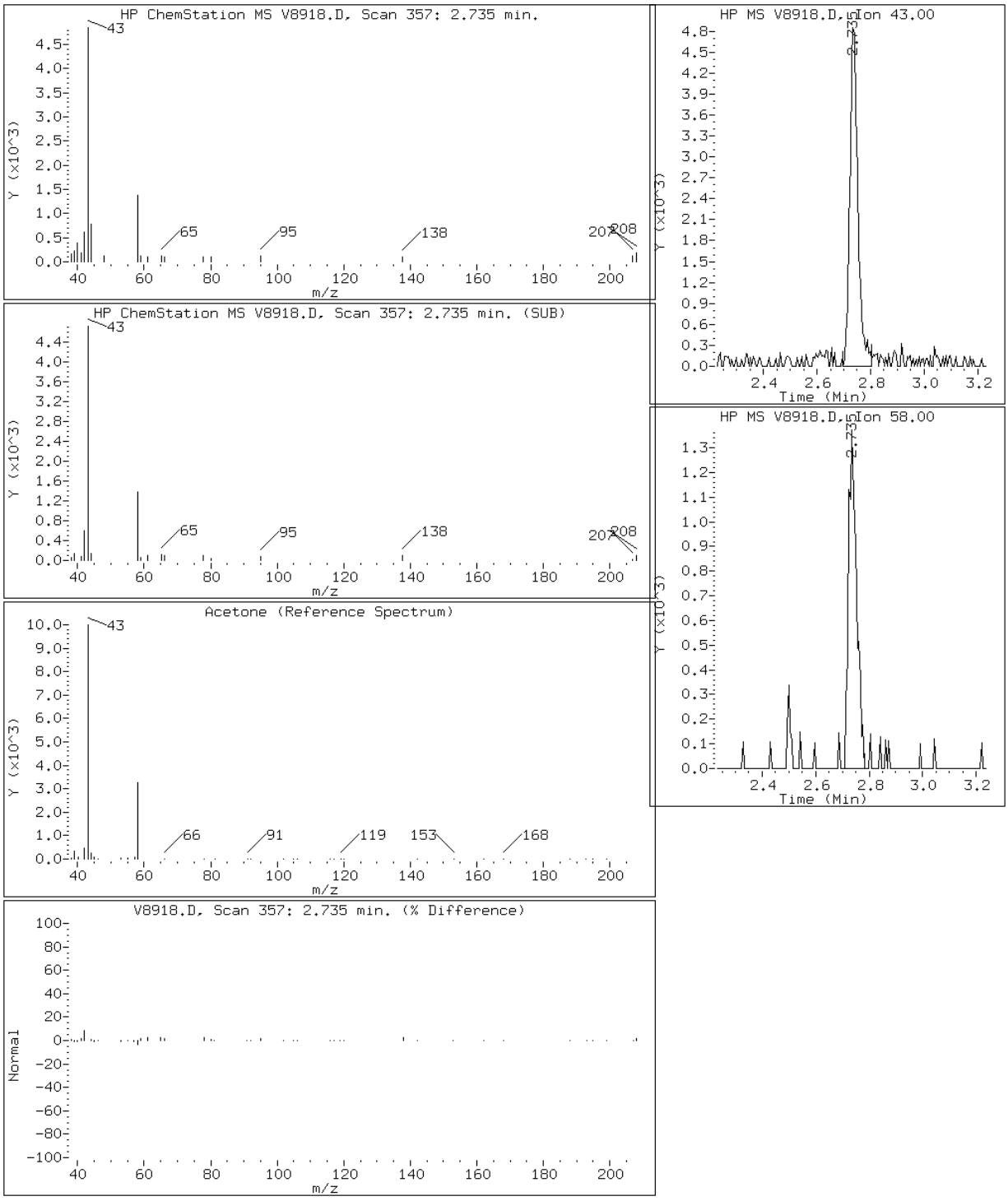
Data File: V8918.D

Date: 21-DEC-2009 20:21

Client ID: FB-3 Instrument: msv.i

Sample Info: 220-11066-e-16 Operator: B.KOSTRZEWSKA

21 Acetone



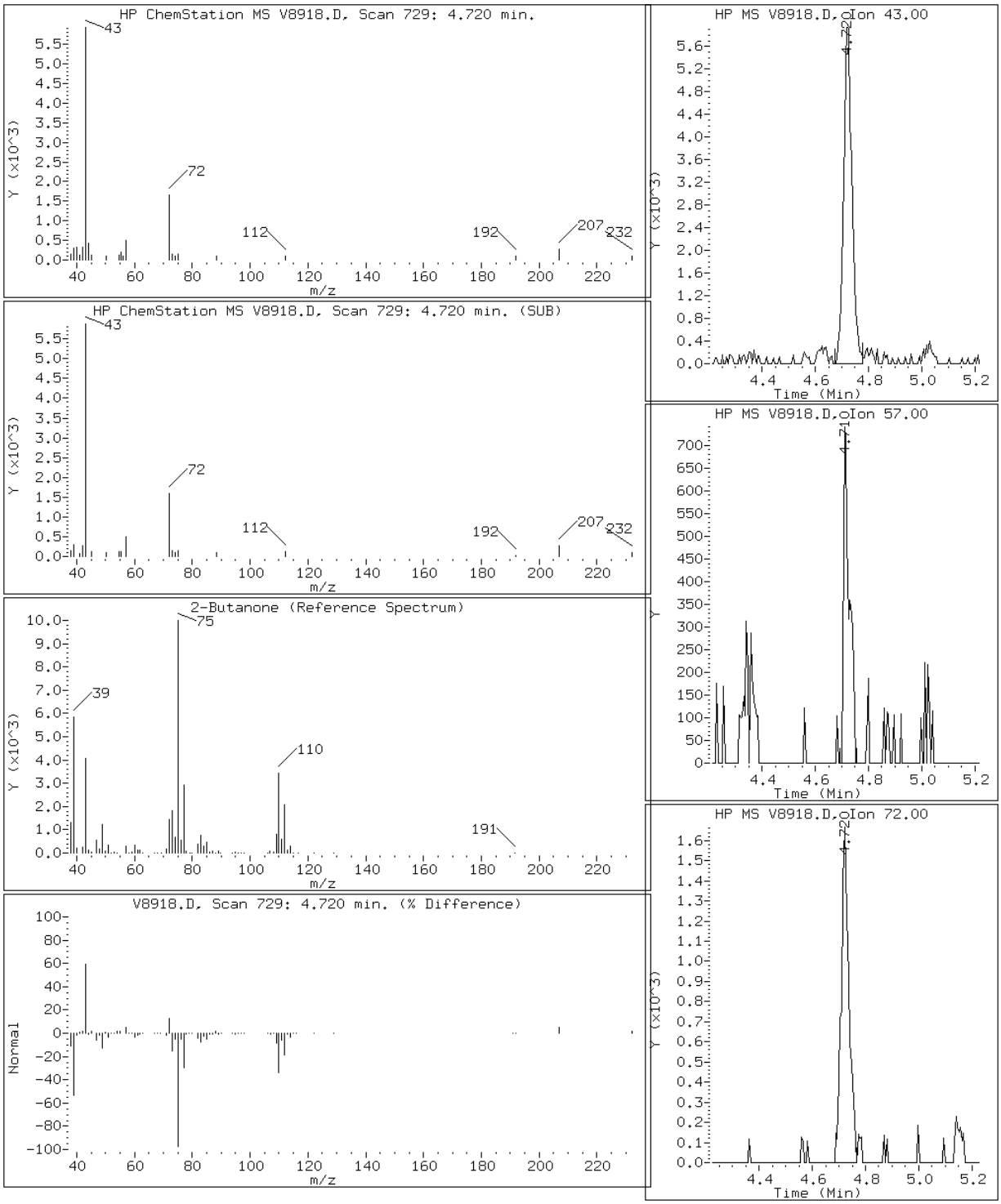
Data File: V8918.D

Date: 21-DEC-2009 20:21

Client ID: FB-3 Instrument: msv.i

Sample Info: 220-11066-e-16 Operator: B.KOSTRZEWSKA

45 2-Butanone



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34635/5	O5062.D
Level 2	IC 220-34635/6	O5063.D
Level 3	IC 220-34635/4	O5060.D
Level 4	IC 220-34635/3	O5059.D
Level 5	IC 220-34635/2	O5058.D
Level 6	IC 220-34635/1	O5057.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4198 0.5149	0.3977	0.5411	0.5301	0.5290	Ave		0.4887				12.9		15.0			
Chloromethane	0.7993 0.8268	0.6893	0.8359	0.8518	0.8198	Ave		0.8038			0.1000	7.3		15.0			
Vinyl chloride	0.6341 0.6854	0.5498	0.6996	0.6866	0.6573	Ave		0.6521				8.5		30.0			
Bromomethane	0.4461 0.4166	0.4186	0.4532	0.4343	0.4379	Ave		0.4345				3.4		15.0			
Chloroethane	0.3592 0.3193	0.3363	0.3830	0.3644	0.3897	Ave		0.3587				7.5		15.0			
Trichlorofluoromethane	0.8380 0.8559	0.7485	0.9172	0.8364	0.8653	Ave		0.8435				6.5		15.0			
Dichlorofluoromethane	1.3957 1.1815	1.1294	1.2730	1.1385	1.1368	Ave		1.2091				8.8		15.0			
Ethyl ether	0.3537 0.3145	0.3155	0.3279	0.3103	0.3069	Ave		0.3215				5.4		15.0			
Ethanol	0.0341 0.0348	0.0290	0.0409	0.0339	0.0331	Ave		0.0343				11.1		15.0			
1,1,1-Trifluoro-2,2-dichloroethane	0.1579 0.1920	0.1790	0.2030	0.1955	0.1963	Ave		0.1873				8.8		15.0			
1,1-Dichloroethene	0.4042 0.3750	0.3499	0.4036	0.3833	0.3899	Ave		0.3843				5.3		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4572 0.5084	0.4557	0.5356	0.5187	0.5374	Ave		0.5022				7.4		15.0			
Carbon disulfide	1.7461 1.8168	1.6280	1.9117	1.8323	1.8954	Ave		1.8050				5.8		15.0			
Iodomethane	0.6300 0.6761	0.6154	0.7695	0.7294	0.7538	Ave		0.6957				9.3		15.0			
Acrolein	0.0624 0.0464	0.0455	0.0536	0.0472	0.0436	Ave		0.0498				14.1		15.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	1.1397 1.2381	1.1273	1.2847	1.1961	1.3009	Ave		1.2145				6.0		15.0			
Isopropyl alcohol	0.1144 0.0831	0.1000	0.0926	0.0935	0.0625	Ave		0.0910				19.1	*	15.0			
Methylene Chloride	+++++ 0.4870	0.4795	0.5221	0.5003	0.5042	Ave		0.4986				3.3		15.0			
Acetone	+++++ 0.2733	0.3157	0.2954	0.2751	0.2521	Ave		0.2823				8.6		15.0			
Methyl acetate	2.3633 2.1561	2.3232	2.2574	2.2295	2.1575	Ave		2.2478				3.8		15.0			
trans-1,2-Dichloroethene	0.4726 0.5038	0.4526	0.5057	0.4937	0.5229	Ave		0.4919				5.2		15.0			
Methyl tert-butyl ether	1.3536 1.3516	1.2743	1.4261	1.3866	1.4277	Ave		1.3700				4.2		15.0			
2-Methyl-2-propanol	0.0853 0.0687	0.0720	0.0763	0.0691	0.0635	Ave		0.0725				10.4		15.0			
Acetonitrile	0.0614 0.0617	0.0592	0.0686	0.0607	0.0519	Ave		0.0606				8.8		15.0			
Isopropyl ether	2.4333 2.3226	2.2284	2.4972	2.3741	2.4592	Ave		2.3858				4.1		15.0			
2-Chloro-1,3-butadiene	0.3940 0.4031	0.3650	0.4246	0.4105	0.4231	Ave		0.4034				5.5		15.0			
1,1-Dichloroethane	1.0904 1.1806	1.0617	1.2052	1.1734	1.2247	Ave		1.1560			0.1000	5.6		15.0			
Acrylonitrile	0.2105 0.1770	0.1736	0.1848	0.1749	0.1769	Ave		0.1829				7.7		15.0			
Tert-butyl ethyl ether	1.8771 1.9280	1.8220	2.0197	1.9501	1.9904	Ave		1.9312				3.8		15.0			
Vinyl acetate	1.1778 1.5050	0.8658	1.6369	1.5465	1.6089	Lin	0.0999	1.5726							0.9953		
cis-1,2-Dichloroethene	0.5216 0.5281	0.4781	0.5368	0.5275	0.5475	Ave		0.5233				4.6		15.0			
2,2-Dichloropropane	0.9710 1.0569	0.9388	1.0413	1.0252	1.1028	Ave		1.0227				5.8		15.0			
Chlorobromomethane	0.2434 0.2292	0.2235	0.2469	0.2330	0.2379	Ave		0.2356				3.7		15.0			
Cyclohexane	0.9546 0.8329	0.8058	0.8849	0.8321	0.8634	Ave		0.8623				6.1		15.0			
Chloroform	1.1028 1.0858	1.0243	1.1131	1.0688	1.1313	Ave		1.0877				3.5		30.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	0.0350 0.0333	0.0219	0.0529	0.0410	0.0308	Ave		0.0358				29.2	*	15.0			
Methyl acrylate	0.4299 0.4288	0.4088	0.4578	0.4372	0.4356	Ave		0.4330				3.7		15.0			
Carbon tetrachloride	0.7697 0.8323	0.7194	0.8303	0.7976	0.9552	Ave		0.8174				9.7		15.0			
Tetrahydrofuran	0.2058 0.1805	0.1919	0.2061	0.1825	0.1728	Ave		0.1899				7.3		15.0			
1,1,1-Trichloroethane	0.8375 0.9364	0.8187	0.9550	0.9238	0.9702	Ave		0.9069				7.0		15.0			
2-Butanone (MEK)	0.2761 0.3045	0.2933	0.3132	0.2858	0.2999	Ave		0.2955				4.5		15.0			
1,1-Dichloropropene	0.8020 0.8868	0.7867	0.8873	0.8847	0.9299	Ave		0.8629				6.5		15.0			
1-Chlorobutane	1.4072 1.4427	1.3133	1.4902	1.4254	1.5094	Ave		1.4314				4.9		15.0			
n-Heptane	1.2838 1.2780	1.2600	1.3600	1.2662	1.3399	Ave		1.2980				3.2		15.0			
Benzene	1.9534 2.0107	1.8573	2.0841	2.0131	2.1192	Ave		2.0063				4.7		15.0			
Propionitrile	0.0667 0.0632	0.0625	0.0684	0.0632	0.0621	Ave		0.0643				4.0		15.0			
Methacrylonitrile	0.2908 0.3827	0.3239	0.3932	0.3303	0.3382	Ave		0.3432				11.2		15.0			
Isobutyl alcohol	0.0149 0.0083	0.0094	0.0082	0.0087	0.0085	Lin	-1.269	0.0082							0.9991		
Tert-amyl methyl ether	1.4803 1.4037	1.3696	1.4904	1.4120	1.4610	Ave		1.4362				3.3		15.0			
1,2-Dichloroethane	0.7477 0.8149	0.7418	0.8236	0.8079	0.8409	Ave		0.7961				5.2		15.0			
Methylcyclohexane	0.9436 0.9357	0.8829	0.9891	0.9442	0.9635	Ave		0.9432				3.7		15.0			
Trichloroethene	0.4789 0.5168	0.4789	0.5307	0.5225	0.5382	Ave		0.5110				5.1		15.0			
1,4-Dioxane	+++++ 0.0043	0.0038	0.0055	0.0052	0.0034	Ave		0.0044				19.8	*	15.0			
Dibromomethane	0.2935 0.3078	0.2925	0.3104	0.3052	0.3155	Ave		0.3042				3.1		15.0			
1,2-Dichloropropane	0.5465 0.5683	0.5244	0.5887	0.5765	0.5857	Ave		0.5650				4.4		30.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorobromomethane	0.8064 0.8076	0.7258	0.7954	0.7717	0.8248	Ave		0.7886				4.5		15.0			
Methyl methacrylate	0.3496 0.3105	0.3308	0.3474	0.3267	0.3257	Ave		0.3318				4.4		15.0			
2-Chloroethyl vinyl ether	0.1984 0.0838	0.2202	0.0855	0.0832	0.0829	Ave		0.1257				51.8	*	15.0			
cis-1,3-Dichloropropene	0.8271 0.8863	0.8186	0.8960	0.8776	0.9104	Ave		0.8693				4.3		15.0			
Toluene	2.7220 2.5214	2.4403	2.7238	2.5108	2.5604	Ave		2.5798				4.6		30.0			
Chloroacetonitrile	0.0194 0.0184	0.0195	0.0203	0.0183	0.0181	Ave		0.0190				4.6		15.0			
2-Nitropropane	0.1709 0.1686	0.1810	0.1810	0.1714	0.1744	Ave		0.1746				3.1		15.0			
1,1-Dichloroacetone	0.3609 0.4175	0.3940	0.4666	0.4244	0.4028	Ave		0.4111				8.6		15.0			
Tetrachloroethene	0.5441 0.5713	0.5256	0.6136	0.5812	0.5932	Ave		0.5715				5.6		15.0			
4-Methyl-2-pentanone (MIBK)	0.8157 0.7367	0.7646	0.8836	0.7924	0.7592	Ave		0.7920				6.6		15.0			
trans-1,3-Dichloropropene	0.7647 0.8195	0.7516	0.8157	0.8054	0.8285	Ave		0.7976				4.0		15.0			
1,1,2-Trichloroethane	0.3365 0.3385	0.3224	0.3439	0.3325	0.3448	Ave		0.3365				2.5		15.0			
Ethyl methacrylate	0.8002 0.7470	0.7422	0.8259	0.7669	0.7614	Ave		0.7739				4.2		15.0			
Chlorodibromomethane	0.5777 0.6428	0.5768	0.6552	0.6379	0.6513	Ave		0.6236				5.8		15.0			
1,3-Dichloropropane	0.8491 0.8869	0.8493	0.9271	0.8927	0.9023	Ave		0.8846				3.5		15.0			
Ethylene Dibromide	0.4250 0.4805	0.4483	0.5075	0.4781	0.4808	Ave		0.4700				6.2		15.0			
2-Hexanone	0.6844 0.5816	0.6066	0.7181	0.6546	0.5782	Ave		0.6372				9.0		15.0			
Chlorobenzene	1.5253 1.4745	1.4278	1.5832	1.4977	1.5207	Ave		1.5049			0.3000	3.5		15.0			
1-Chlorohexane	1.5173 1.1680	1.2658	1.6574	1.5765	1.1864	Ave		1.3953				15.3	*	15.0			
Ethylbenzene	0.8175 0.8061	0.7844	0.8620	0.8193	0.8315	Ave		0.8201				3.2		30.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	0.5375 0.5884	0.5391	0.6132	0.5875	0.5994	Ave		0.5775				5.5		15.0			
m-Xylene & p-Xylene	1.0026 0.9846	0.9688	1.0716	1.0171	1.0220	Ave		1.0111				3.5		15.0			
o-Xylene	0.9306 0.9287	0.9061	1.0176	0.9578	0.9549	Ave		0.9493				4.1		15.0			
Styrene	1.4634 1.4766	1.4485	1.6236	1.5442	1.5619	Ave		1.5197				4.5		15.0			
Bromoform	0.4005 0.4175	0.3876	0.4325	0.4256	0.4196	Ave		0.4139			0.1000	4.0		15.0			
Isopropylbenzene	5.2820 5.1589	4.8327	5.0065	5.0763	5.1428	Ave		5.0832				3.0		15.0			
Bromobenzene	1.3180 1.3086	1.2056	1.2870	1.2803	1.2971	Ave		1.2828				3.1		15.0			
N-Propylbenzene	6.8110 6.8842	6.3825	6.5585	6.7089	6.8520	Ave		6.6995				2.9		15.0			
1,1,2,2-Tetrachloroethane	1.2379 1.1216	1.0932	1.1314	1.1073	1.0817	Ave		1.1288			0.3000	5.0		15.0			
4-Ethyltoluene	5.2344 5.1478	4.8088	4.9439	5.1044	5.1554	Ave		5.0658				3.1		15.0			
2-Chlorotoluene	4.7783 4.6010	4.3413	4.3101	4.4863	4.4929	Ave		4.5017				3.8		15.0			
1,2,3-Trichloropropane	0.3248 0.3068	0.2895	0.2989	0.3087	0.2995	Ave		0.3047				3.9		15.0			
1,3,5-Trimethylbenzene	4.3611 4.2522	3.9920	4.1947	4.2094	4.2664	Ave		4.2126				2.9		15.0			
trans-1,4-Dichloro-2-butene	0.4070 0.4513	0.4060	0.4285	0.4448	0.4271	Ave		0.4274				4.4		15.0			
4-Chlorotoluene	4.0158 4.0500	3.9474	3.8903	4.0004	4.0720	Ave		3.9960				1.7		15.0			
tert-Butylbenzene	3.7162 3.6587	3.4321	3.5950	3.6208	3.6510	Ave		3.6123				2.7		15.0			
1,2,4-Trimethylbenzene	4.2397 4.0761	3.9649	4.0321	4.0618	4.1209	Ave		4.0826				2.3		15.0			
sec-Butylbenzene	5.6970 5.4713	5.2519	5.4967	5.4567	5.5486	Ave		5.4870				2.6		15.0			
4-Isopropyltoluene	4.4389 4.4464	4.2325	4.3722	4.3879	4.4182	Ave		4.3827				1.8		15.0			
1,3-Dichlorobenzene	2.2972 2.2271	2.1132	2.1848	2.2204	2.2725	Ave		2.2192				2.9		15.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	2.2443 2.1952	2.0684	2.1360	2.2254	2.2402	Ave		2.1849				3.2		15.0			
p-Diethylbenzene	2.0371 2.1946	2.0633	2.1631	2.2296	2.2670	Ave		2.1591				4.2		15.0			
Benzyl chloride	0.2885 0.3726	0.3321	0.3504	0.3737	0.3672	Ave		0.3474				9.5		15.0			
n-Butylbenzene	4.7807 4.6885	4.9763	4.7436	4.8846	5.3723	Ave		4.9077				5.1		15.0			
1,2-Dichlorobenzene	1.9885 1.9506	1.8096	1.9287	1.9674	1.9883	Ave		1.9389				3.5		15.0			
1,2,4,5-Tetramethylbenzene	2.7287 3.4219	3.1487	3.5186	3.6454	3.5982	Ave		3.3436				10.4		15.0			
1,2-Dibromo-3-Chloropropane	0.1641 0.2108	0.1878	0.2170	0.2097	0.2024	Ave		0.1986				9.9		15.0			
Nitrobenzene	0.0208 0.0563	0.0200	0.0416	0.0516	0.0544	Lin	4.1708	0.0587							0.9972		
Hexachlorobutadiene	1.0366 1.0023	0.9977	1.1492	1.1601	1.1339	Ave		1.0800				7.0		15.0			
1,2,4-Trichlorobenzene	0.7336 1.2415	0.9614	1.2271	1.3309	1.3006	Lin	0.0809	1.2883							0.9974		
Naphthalene	1.3151 1.8468	1.4926	1.9940	2.1238	1.9775	Lin	-0.007	1.9284							0.9927		
1,2,3-Trichlorobenzene	0.6351 1.0257	0.8294	1.0296	1.1229	1.0858	Lin	0.0544	1.0671							0.9963		
Dibromofluoromethane	0.5035 0.4805	0.4863	0.4948	0.4717	0.5091	Ave		0.4910				2.9		15.0			
1,2-Dichloroethane-d4 (Surr)	0.5697 0.5676	0.5820	0.5800	0.5396	0.5802	Ave		0.5699				2.8		15.0			
Toluene-d8 (Surr)	1.9105 1.8821	1.9076	1.9925	1.8550	1.9758	Ave		1.9206				2.8		15.0			
4-Bromofluorobenzene	1.7989 1.5887	1.6267	1.5398	1.5337	1.6014	Ave		1.6148				6.0		15.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34635/5	O5062.D
Level 2	IC 220-34635/6	O5063.D
Level 3	IC 220-34635/4	O5060.D
Level 4	IC 220-34635/3	O5059.D
Level 5	IC 220-34635/2	O5058.D
Level 6	IC 220-34635/1	O5057.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	21082 1076693	86838	289296	577265	801251	5.00 200	20.0	50.0	100	150
Chloromethane	FB	Ave	40146 1729075	150498	446943	927560	1241793	5.00 200	20.0	50.0	100	150
Vinyl chloride	FB	Ave	31848 1433271	120048	374043	747662	995581	5.00 200	20.0	50.0	100	150
Bromomethane	FB	Ave	22406 871297	91397	242294	472883	663342	5.00 200	20.0	50.0	100	150
Chloroethane	FB	Ave	18041 667809	73422	204792	396778	590315	5.00 200	20.0	50.0	100	150
Trichlorofluoromethane	FB	Ave	42090 1789977	163429	490393	910729	1310617	5.00 200	20.0	50.0	100	150
Dichlorofluoromethane	FB	Ave	70098 2470820	246598	680625	1239694	1721973	5.00 200	20.0	50.0	100	150
Ethyl ether	FB	Ave	17763 657757	68887	175339	337878	464929	5.00 200	20.0	50.0	100	150
Ethanol	FB	Ave	17115 727363	63399	218476	369655	500736	50.0 2000	200	500	1000	1500
1,1,1-Trifluoro-2,2-dichloroethane	FB	Ave	7928 401420	39089	108551	212852	297319	5.00 200	20.0	50.0	100	150
1,1-Dichloroethene	FB	Ave	20299 784159	76395	215801	417425	590659	5.00 200	20.0	50.0	100	150
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	22962 1063268	99491	286371	564860	813991	5.00 200	20.0	50.0	100	150
Carbon disulfide	FB	Ave	87698 3799402	355462	1022164	1995138	2871027	5.00 200	20.0	50.0	100	150
Iodomethane	FB	Ave	31642 1413818	134365	411410	794190	1141845	5.00 200	20.0	50.0	100	150
Acrolein	FB	Ave	15659 485422	49651	143266	256857	330297	25.0 1000	100	250	500	750
3-Chloro-1-propene	FB	Ave	57239 2589212	246147	686909	1302404	1970474	5.00 200	20.0	50.0	100	150

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Isopropyl alcohol	FB	Ave	5748 173790	21829	49513	101822	94688	5.00 200	20.0	50.0	100	150
Methylene Chloride	FB	Ave	+++++ 1018511	104688	279139	544830	763706	+++++ 200	20.0	50.0	100	150
Acetone	FB	Ave	+++++ 571637	68930	157954	299601	381821	+++++ 200	20.0	50.0	100	150
Methyl acetate	FB	Ave	118698 4508888	507260	1206957	2427684	3267958	5.00 200	20.0	50.0	100	150
trans-1,2-Dichloroethene	FB	Ave	23735 1053523	98822	270361	537553	792063	5.00 200	20.0	50.0	100	150
Methyl tert-butyl ether	FB	Ave	67983 2826440	278236	762519	1509845	2162635	5.00 200	20.0	50.0	100	150
2-Methyl-2-propanol	FB	Ave	21420 718697	78568	204026	376229	480787	25.0 1000	100	250	500	750
Acetonitrile	FB	Ave	30844 1290666	129361	366664	660475	785860	50.0 2000	200	500	1000	1500
Isopropyl ether	FB	Ave	122211 4857081	486571	1335214	2585165	3724930	5.00 200	20.0	50.0	100	150
2-Chloro-1,3-butadiene	FB	Ave	19791 843068	79697	227039	447007	640900	5.00 200	20.0	50.0	100	150
1,1-Dichloroethane	FB	Ave	54765 2468915	231813	644381	1277748	1855054	5.00 200	20.0	50.0	100	150
Acrylonitrile	FB	Ave	21143 740181	75810	197607	380956	535805	10.0 400	40.0	100	200	300
Tert-butyl ethyl ether	FB	Ave	94276 4031876	397821	1079889	2123425	3014855	5.00 200	20.0	50.0	100	150
Vinyl acetate	FB	Lin	59155 3147322	189047	875218	1683972	2437046	5.00 200	20.0	50.0	100	150
cis-1,2-Dichloroethene	FB	Ave	26198 1104312	104393	286996	574410	829280	5.00 200	20.0	50.0	100	150
2,2-Dichloropropane	FB	Ave	48767 2210233	204987	556747	1116346	1670483	5.00 200	20.0	50.0	100	150
Chlorobromomethane	FB	Ave	12223 479374	48804	131992	253664	360291	5.00 200	20.0	50.0	100	150
Cyclohexane	FB	Ave	47944 1741861	175942	473148	906030	1307813	5.00 200	20.0	50.0	100	150
Chloroform	FB	Ave	55388 2270685	223656	595136	1163847	1713615	5.00 200	20.0	50.0	100	150
Ethyl acetate	FB	Ave	3514 139459	9551	56580	89346	93229	10.0 400	40.0	100	200	300
Methyl acrylate	FB	Ave	21591 896830	89253	244766	476121	659839	5.00 200	20.0	50.0	100	150

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Carbon tetrachloride	FB	Ave	38658 1740532	157087	443948	868454	1446838	5.00 200	20.0	50.0	100	150
Tetrahydrofuran	FB	Ave	20673 754844	83794	220373	397364	523545	10.0 400	40.0	100	200	300
1,1,1-Trichloroethane	FB	Ave	42062 1958188	178754	510610	1005934	1469539	5.00 200	20.0	50.0	100	150
2-Butanone (MEK)	FB	Ave	13865 636704	64035	167481	311190	454295	5.00 200	20.0	50.0	100	150
1,1-Dichloropropene	FB	Ave	40278 1854554	171763	474405	963335	1408535	5.00 200	20.0	50.0	100	150
1-Chlorobutane	FB	Ave	70675 3016955	286757	796800	1552093	2286350	5.00 200	20.0	50.0	100	150
n-Heptane	FB	Ave	64477 2672617	275108	727183	1378805	2029526	5.00 200	20.0	50.0	100	150
Benzene	FB	Ave	98111 4204935	405538	1114293	2192055	3209968	5.00 200	20.0	50.0	100	150
Propionitrile	FB	Ave	33518 1321794	136430	365570	688045	940258	50.0 2000	200	500	1000	1500
Methacrylonitrile	FB	Ave	14604 800308	70727	210252	359647	512348	5.00 200	20.0	50.0	100	150
Isobutyl alcohol	FB	Lin	7464 172707	20551	43874	95000	128455	50.0 2000	200	500	1000	1500
Tert-amyl methyl ether	FB	Ave	74346 2935592	299052	796898	1537568	2212998	5.00 200	20.0	50.0	100	150
1,2-Dichloroethane	FB	Ave	37553 1704098	161973	440340	879670	1273801	5.00 200	20.0	50.0	100	150
Methylcyclohexane	FB	Ave	47394 1956791	192789	528846	1028098	1459466	5.00 200	20.0	50.0	100	150
Trichloroethene	FB	Ave	24055 1080735	104569	283752	568939	815276	5.00 200	20.0	50.0	100	150
1,4-Dioxane	FB	Ave	+++++ 89781	8403	29162	56130	50890	+++++ 2000	200	500	1000	1500
Dibromomethane	FB	Ave	14743 643669	63867	165969	332288	477921	5.00 200	20.0	50.0	100	150
1,2-Dichloropropane	FB	Ave	27448 1188527	114511	314771	627702	887233	5.00 200	20.0	50.0	100	150
Dichlorobromomethane	FB	Ave	40503 1688843	158473	425305	840266	1249361	5.00 200	20.0	50.0	100	150
Methyl methacrylate	FB	Ave	17559 649233	72220	185767	355792	493395	5.00 200	20.0	50.0	100	150
2-Chloroethyl vinyl ether	FB	Ave	9963 175238	48078	45705	90595	125582	5.00 200	20.0	50.0	100	150

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
cis-1,3-Dichloropropene	FB	Ave	41539 1853376	178730	479052	955630	1378934	5.00 200	20.0	50.0	100	150
Toluene	CBZ	Ave	115383 4237831	429522	1144098	2181296	3134954	5.00 200	20.0	50.0	100	150
Chloroacetonitrile	FB	Ave	9758 384434	42635	108570	199581	273976	50.0 2000	200	500	1000	1500
2-Nitropropane	FB	Ave	17163 705123	79040	193604	373363	528471	10.0 400	40.0	100	200	300
1,1-Dichloroacetone	CBZ	Ave	76499 3508876	346784	980038	1843766	2465911	25.0 1000	100	250	500	750
Tetrachloroethene	CBZ	Ave	23066 960197	92507	257749	504907	726275	5.00 200	20.0	50.0	100	150
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	34577 1238143	134576	371145	688437	929594	5.00 200	20.0	50.0	100	150
trans-1,3-Dichloropropene	FB	Ave	38406 1713854	164115	436160	877003	1254889	5.00 200	20.0	50.0	100	150
1,1,2-Trichloroethane	FB	Ave	16903 707984	70396	183858	362100	522340	5.00 200	20.0	50.0	100	150
Ethyl methacrylate	CBZ	Ave	33922 1255462	130645	346922	666241	932285	5.00 200	20.0	50.0	100	150
Chlorodibromomethane	CBZ	Ave	24489 1080366	101527	275225	554161	797452	5.00 200	20.0	50.0	100	150
1,3-Dichloropropane	CBZ	Ave	35994 1490690	149493	389431	775578	1104784	5.00 200	20.0	50.0	100	150
Ethylene Dibromide	CBZ	Ave	18017 807586	78904	213160	415369	588663	5.00 200	20.0	50.0	100	150
2-Hexanone	CBZ	Ave	29013 977482	106766	301620	568701	707907	5.00 200	20.0	50.0	100	150
Chlorobenzene	CBZ	Ave	64656 2478202	251311	665008	1301203	1861932	5.00 200	20.0	50.0	100	150
1-Chlorohexane	CBZ	Ave	64320 1963180	222806	696161	1369646	1452638	5.00 200	20.0	50.0	100	150
Ethylbenzene	CBZ	Ave	34653 1354825	138072	362087	711787	1018074	5.00 200	20.0	50.0	100	150
1,1,1,2-Tetrachloroethane	CBZ	Ave	22785 988920	94890	257583	510371	733926	5.00 200	20.0	50.0	100	150
m-Xylene & p-Xylene	CBZ	Ave	84997 3309739	341040	900202	1767345	2502651	10.0 400	40.0	100	200	300
o-Xylene	CBZ	Ave	39448 1560996	159484	427436	832126	1169129	5.00 200	20.0	50.0	100	150
Styrene	CBZ	Ave	62035 2481785	254955	681992	1341590	1912398	5.00 200	20.0	50.0	100	150

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	16978 701747	68232	181652	369737	513699	5.00 200	20.0	50.0	100	150
Isopropylbenzene	DCB	Ave	110575 4328746	432608	1166025	2325428	3269124	5.00 200	20.0	50.0	100	150
Bromobenzene	DCB	Ave	27591 1098017	107918	299755	586476	824566	5.00 200	20.0	50.0	100	150
N-Propylbenzene	DCB	Ave	142584 5776456	571349	1527504	3073272	4355641	5.00 200	20.0	50.0	100	150
1,1,2,2-Tetrachloroethane	DCB	Ave	25914 941140	97860	263512	507226	687621	5.00 200	20.0	50.0	100	150
4-Ethyltoluene	DCB	Ave	109578 4319468	430473	1151449	2338283	3277135	5.00 200	20.0	50.0	100	150
2-Chlorotoluene	DCB	Ave	100031 3860613	388624	1003841	2055159	2856021	5.00 200	20.0	50.0	100	150
1,2,3-Trichloropropane	DCB	Ave	6799 257458	25914	69608	141408	190363	5.00 200	20.0	50.0	100	150
1,3,5-Trimethylbenzene	DCB	Ave	91298 3567937	357355	976960	1928308	2712042	5.00 200	20.0	50.0	100	150
trans-1,4-Dichloro-2-butene	DCB	Ave	17039 757363	72690	199606	407485	542981	10.0 400	40.0	100	200	300
4-Chlorotoluene	DCB	Ave	84069 3398299	353365	906061	1832538	2588463	5.00 200	20.0	50.0	100	150
tert-Butylbenzene	DCB	Ave	77797 3069992	307232	837286	1658656	2320883	5.00 200	20.0	50.0	100	150
1,2,4-Trimethylbenzene	DCB	Ave	88755 3420248	354926	939101	1860696	2619571	5.00 200	20.0	50.0	100	150
sec-Butylbenzene	DCB	Ave	119263 4590888	470141	1280207	2499657	3527123	5.00 200	20.0	50.0	100	150
4-Isopropyltoluene	DCB	Ave	92925 3730927	378883	1018306	2010064	2808534	5.00 200	20.0	50.0	100	150
1,3-Dichlorobenzene	DCB	Ave	48090 1868761	189170	508853	1017130	1444587	5.00 200	20.0	50.0	100	150
1,4-Dichlorobenzene	DCB	Ave	46983 1841972	185160	497477	1019434	1424060	5.00 200	20.0	50.0	100	150
p-Diethylbenzene	DCB	Ave	42645 1841499	184706	503806	1021363	1441106	5.00 200	20.0	50.0	100	150
Benzyl chloride	DCB	Ave	6039 312618	29730	81613	171208	233414	5.00 200	20.0	50.0	100	150
n-Butylbenzene	DCB	Ave	100082 3934066	445462	1104800	2237594	3415024	5.00 200	20.0	50.0	100	150
1,2-Dichlorobenzene	DCB	Ave	41629 1636739	161988	449202	901264	1263938	5.00 200	20.0	50.0	100	150

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34635

SDG No.:

Instrument ID: MSO GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/23/2009 10:57 Calibration End Date: 12/23/2009 14:02 Calibration ID: 6107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetramethylbenzene	DCB	Ave	57124 2871275	281864	819502	1669945	2287293	5.00 200	20.0	50.0	100	150
1,2-Dibromo-3-Chloropropane	DCB	Ave	3435 176909	16815	50540	96075	128644	5.00 200	20.0	50.0	100	150
Nitrobenzene	DCB	Lin	4345 472284	17926	96949	236530	345848	50.0 2000	200	500	1000	1500
Hexachlorobutadiene	DCB	Ave	21700 841032	89309	267643	531446	720785	5.00 200	20.0	50.0	100	150
1,2,4-Trichlorobenzene	DCB	Lin	15358 1041761	86061	285798	609696	826791	5.00 200	20.0	50.0	100	150
Naphthalene	DCB	Lin	27530 1549648	133614	464417	972917	1257021	5.00 200	20.0	50.0	100	150
1,2,3-Trichlorobenzene	DCB	Lin	13295 860666	74245	239789	514374	690226	5.00 200	20.0	50.0	100	150
Dibromofluoromethane	FB	Ave	25289 1004875	106177	132286	513643	771105	5.00 200	20.0	25.0	100	150
1,2-Dichloroethane-d4 (Surr)	FB	Ave	28615 1187010	127082	155063	587518	878904	5.00 200	20.0	25.0	100	150
Toluene-d8 (Surr)	CBZ	Ave	80984 3163383	335759	418476	1611618	2419126	5.00 200	20.0	25.0	100	150
4-Bromofluorobenzene	DCB	Ave	37658 1333033	145614	179317	702570	1017953	5.00 200	20.0	25.0	100	150

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O5057.D
Lab Smp Id: IC;200 Client Smp ID: IC;200
Inj Date : 23-DEC-2009 10:57 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : IC;200
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O8260BNS.m
Meth Date : 23-Dec-2009 17:13 mso.i Quant Type: ISTD
Cal Date : 23-DEC-2009 14:02 Cal File: O5063.D
Als bottle: 64 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
* 1	Fluorobenzene	96	4.018	4.018	(1.000)	261407	25.0000	
2	Dichlorodifluoromethane	85	0.942	0.942	(0.235)	1076693	200.000	210(A)
3	Chloromethane	50	1.031	1.031	(0.257)	1729075	200.000	200(A)
4	Vinyl Chloride	62	1.060	1.060	(0.264)	1433271	200.000	210(A)
5	Bromomethane	94	1.208	1.208	(0.301)	871297	200.000	190
6	Chloroethane	64	1.257	1.257	(0.313)	667809	200.000	180
7	Trichlorofluoromethane	101	1.316	1.316	(0.328)	1789977	200.000	200(A)
8	Dichlorofluoromethane	67	1.336	1.336	(0.333)	2470820	200.000	200
9	Ethyl Ether	45	1.445	1.445	(0.360)	657757	200.000	200
10	Ethanol	45	1.504	1.504	(0.374)	727363	2000.00	2000(A)
12	Freon 123	67	1.553	1.553	(0.387)	401420	200.000	200(A)
13	Trichlorotrifluoroethane	101	1.563	1.563	(0.389)	1063268	200.000	200(A)
14	1,1-Dichloroethene	96	1.553	1.553	(0.387)	784159	200.000	200
15	Carbon Disulfide	76	1.583	1.583	(0.394)	3799402	200.000	200(A)
16	Iodomethane	142	1.632	1.632	(0.406)	1413818	200.000	190
17	Acrolein	56	1.711	1.711	(0.426)	485422	1000.00	930
18	2-Propanol	45	1.829	1.829	(0.455)	173790	200.000	180
19	3-Chloro-1-Propene	41	1.790	1.790	(0.446)	2589212	200.000	200(A)
20	Methylene Chloride	84	1.839	1.839	(0.458)	1018511	200.000	200
21	Acetone	43	1.869	1.869	(0.465)	571637	200.000	190

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
	22 trans-1,2-Dichloroethene	96	1.928	1.928	(0.480)	1053523	200.000	200(A)
	23 Methyl Acetate	43	1.928	1.928	(0.480)	4508888	200.000	190
	24 Methyl tert-Butyl Ether	73	1.977	1.977	(0.492)	2826440	200.000	200
	25 tert-Butyl alcohol	59	2.046	2.046	(0.509)	718697	1000.00	950
	26 Acetonitrile	41	2.154	2.154	(0.536)	1290666	2000.00	2000(A)
	27 Isopropyl ether	45	2.204	2.204	(0.549)	4857081	200.000	190
	28 tert-Butyl ethyl ether	59	2.460	2.460	(0.612)	4031876	200.000	200
	29 2-Chloro-1,3-Butadiene	88	2.292	2.292	(0.571)	843068	200.000	200
	30 Acrylonitrile	53	2.342	2.342	(0.583)	740181	400.000	390
	31 1,1-Dichloroethane	63	2.312	2.312	(0.576)	2468915	200.000	200(A)
	32 Vinyl Acetate	43	2.470	2.470	(0.615)	3147322	200.000	190
	33 cis-1,2-Dichloroethene	96	2.707	2.707	(0.674)	1104312	200.000	200(A)
	34 2,2-Dichloropropane	77	2.795	2.795	(0.696)	2210233	200.000	210(A)
	35 Bromochloromethane	128	2.874	2.874	(0.715)	479374	200.000	190
	37 Cyclohexane	84	2.884	2.884	(0.718)	1741861	200.000	190
	38 Chloroform	83	2.933	2.933	(0.730)	2270685	200.000	200
	39 Ethyl Acetate	43	3.042	3.042	(0.757)	139459	400.000	370(MH)
	40 Methyl Acrylate	55	3.052	3.052	(0.760)	896830	200.000	200(H)
$	41 Dibromofluoromethane	111	3.101	3.101	(0.772)	1004875	200.000	200
	42 Tetrahydrofuran	42	3.081	3.081	(0.767)	754844	400.000	380
	43 Carbon Tetrachloride	117	3.061	3.061	(0.762)	1740532	200.000	200(A)
	44 1,1,1-Trichloroethane	97	3.130	3.130	(0.779)	1958188	200.000	210(A)
	45 2-Butanone	43	3.229	3.229	(0.804)	636704	200.000	210(A)
	46 1,1-Dichloropropene	75	3.249	3.249	(0.809)	1854554	200.000	200(A)
	47 tert-Amyl methyl ether	73	3.653	3.653	(0.909)	2935592	200.000	200
	49 1-Chlorobutane	56	3.298	3.298	(0.821)	3016955	200.000	200(A)
	50 Heptane	43	3.485	3.485	(0.868)	2672617	200.000	200
	51 Propionitrile	54	3.545	3.545	(0.882)	1321794	2000.00	2000
	52 Benzene	78	3.505	3.505	(0.872)	4204935	200.000	200(A)
	53 2-Methyl-2-Propenenitrile	41	3.564	3.564	(0.887)	800308	200.000	220(AM)
	54 Isobutyl alcohol	42	3.643	3.643	(0.907)	172707	2000.00	2000
$	55 1,2-Dichloroethane-d4	65	3.663	3.663	(0.912)	1187010	200.000	200
	56 1,2-Dichloroethane	62	3.742	3.742	(0.931)	1704098	200.000	200(A)
	59 Methyl Cyclohexane	83	4.215	4.215	(1.049)	1956791	200.000	200
	60 Trichloroethene	130	4.235	4.235	(1.054)	1080735	200.000	200(A)
	63 Dibromomethane	93	4.747	4.747	(1.182)	643669	200.000	200(A)
	64 1,2-Dichloropropane	63	4.866	4.866	(1.211)	1188527	200.000	200(A)
	65 Bromodichloromethane	83	4.964	4.964	(1.236)	1688843	200.000	200(A)
	66 Methyl Methacrylate	69	5.181	5.181	(1.290)	649233	200.000	190
	67 1,4-Dioxane	58	5.240	5.240	(1.304)	89781	2000.00	1900(M)
	69 2-Chloroethylvinylether	63	5.635	5.635	(1.402)	175238	200.000	130
	70 cis-1,3-Dichloropropene	75	5.664	5.664	(1.410)	1853376	200.000	200(A)
	71 Chloroacetonitrile	48	6.098	6.098	(1.518)	384434	2000.00	1900
	72 2-Nitropropane	41	6.147	6.147	(1.530)	705123	400.000	390
	73 trans-1,3-Dichloropropene	75	6.344	6.344	(1.579)	1713854	200.000	200(A)
	74 1,1,2-Trichloroethane	97	6.502	6.502	(1.618)	707984	200.000	200(A)
*	75 Chlorobenzene-d5	117	7.360	7.360	(1.000)	210094	25.0000	
	76 Toluene	91	5.911	5.911	(0.803)	4237831	200.000	200
$	77 Toluene-d8	98	5.861	5.861	(0.796)	3163383	200.000	200
	78 1,1-Dichloro-2-propanone	43	6.157	6.157	(0.837)	3508876	1000.00	1000(A)
	79 4-Methyl-2-Pentanone	43	6.325	6.325	(0.859)	1238143	200.000	190
	80 Tetrachloroethene	164	6.295	6.295	(0.855)	960197	200.000	200
	81 Ethyl Methacrylate	69	6.551	6.551	(0.890)	1255462	200.000	190
	82 Dibromochloromethane	129	6.660	6.660	(0.905)	1080366	200.000	210(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
83	1,3-Dichloropropane	76	6.749	6.749	(0.917)	1490690	200.000	200(A)
84	1,2-Dibromoethane	107	6.857	6.857	(0.932)	807586	200.000	200(A)
86	2-Hexanone	43	7.143	7.143	(0.971)	977482	200.000	180
87	1-Chlorohexane	91	7.399	7.399	(1.005)	1963180	200.000	170(M)
88	Chlorobenzene	112	7.370	7.370	(1.001)	2478202	200.000	200
89	1,1,1,2-Tetrachloroethane	131	7.449	7.449	(1.012)	988920	200.000	200(A)
90	Ethylbenzene	106	7.419	7.419	(1.008)	1354825	200.000	200(H)
91	Xylene (total)mp	106	7.557	7.557	(1.027)	3309739	400.000	390
92	Xylene (total)o	106	7.942	7.942	(1.079)	1560996	200.000	200
93	Styrene	104	7.991	7.991	(1.086)	2481785	200.000	190
94	Bromoform	173	7.991	7.991	(1.086)	701747	200.000	200(A)
* 95	1,4-Dichlorobenzene-d4	152	9.440	9.440	(1.000)	104886	25.0000	
96	Isopropylbenzene	105	8.237	8.237	(0.873)	4328746	200.000	200(A)
97	Bromobenzene	156	8.543	8.543	(0.905)	1098017	200.000	200(A)
98	1,1,2,2-Tetrachloroethane	83	8.671	8.671	(0.919)	941140	200.000	200
99	4-Ethyltoluene	105	8.701	8.701	(0.922)	4319468	200.000	210(AH)
100	1,2,3-Trichloropropane	110	8.770	8.770	(0.929)	257458	200.000	200(A)
101	trans-1,4-Dichloro-2-Butene	53	8.819	8.819	(0.934)	757363	400.000	420(A)
102	n-Propylbenzene	91	8.602	8.602	(0.911)	5776456	200.000	220(AH)
103	2-Chlorotoluene	91	8.720	8.720	(0.924)	3860613	200.000	210(AH)
104	4-Chlorotoluene	91	8.868	8.868	(0.939)	3398299	200.000	200(A)
105	1,3,5-Trimethylbenzene	105	8.789	8.789	(0.931)	3567937	200.000	200(A)
106	tert-Butylbenzene	119	9.056	9.056	(0.959)	3069992	200.000	200(A)
107	1,2,4-Trimethylbenzene	105	9.115	9.115	(0.966)	3420248	200.000	200
108	sec-Butylbenzene	105	9.213	9.213	(0.976)	4590888	200.000	200
109	4-Isopropyltoluene	119	9.341	9.341	(0.990)	3730927	200.000	200(A)
110	1,3-Dichlorobenzene	146	9.381	9.381	(0.994)	1868761	200.000	200(A)
111	1,4-Dichlorobenzene	146	9.460	9.460	(1.002)	1841972	200.000	200(A)
112	1,2-Dichlorobenzene	146	9.815	9.815	(1.040)	1636739	200.000	200(A)
113	Benzyl Chloride	126	9.687	9.687	(1.026)	312618	200.000	210(A)
114	1,4-Diethylbenzene	119	9.667	9.667	(1.024)	1841499	200.000	200(A)
115	n-Butylbenzene	91	9.706	9.706	(1.028)	3934066	200.000	190
118	1,2,4,5-Tetramethylbenzene	119	10.367	10.367	(1.098)	2871275	200.000	200(A)
119	1,2-Dibromo-3-chloropropane	75	10.515	10.515	(1.114)	176909	200.000	210(A)
120	Nitrobenzene	77	11.008	11.008	(1.166)	472284	2000.00	2000(AH)
121	1,2,4-Trichlorobenzene	180	11.116	11.116	(1.178)	1041761	200.000	190
122	Hexachlorobutadiene	225	11.106	11.106	(1.176)	841032	200.000	180
123	Naphthalene	128	11.392	11.392	(1.207)	1549648	200.000	190
124	1,2,3-Trichlorobenzene	180	11.560	11.560	(1.225)	860666	200.000	190
$ 125	Bromofluorobenzene	95	8.464	8.464	(0.897)	1333033	200.000	200
M 126	1,2-Dichloroethene (total)	100				2157835	400.000	410
M 127	Xylene (total)	100				4870735	600.000	580

QC Flag Legend

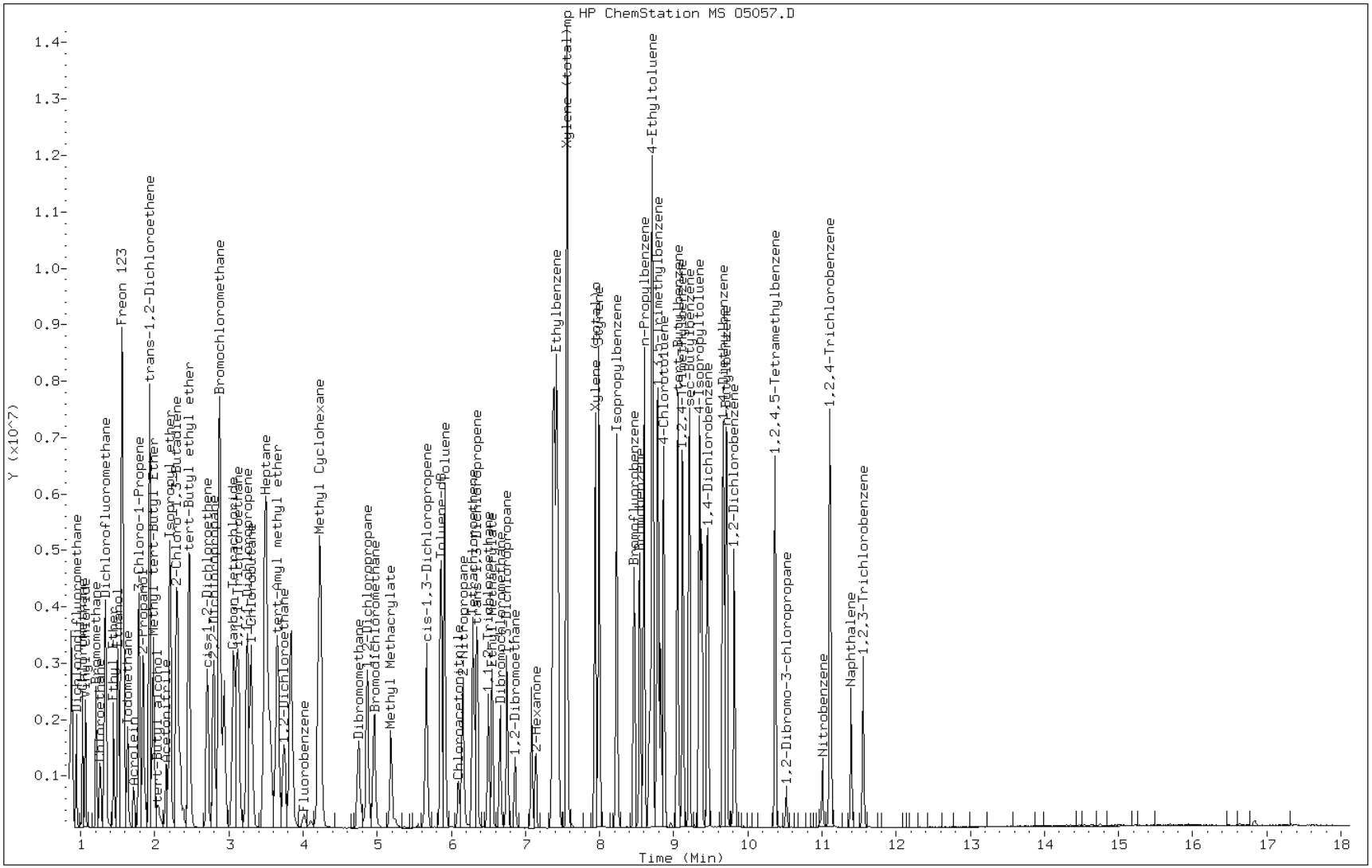
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: O5057.D

Date: 23-DEC-2009 10:57

Client ID: IC;200 Instrument: mso.i

Sample Info: IC;200 Operator: D. HUMBERT



Manual Integration Report

Data File: O5057.D
Inj. Date and Time: 23-DEC-2009 10:57
Instrument ID: mso.i
Client ID: IC;200
Compound: 53 2-Methyl-2-Propenenitrile
CAS #: 126-98-7
Report Date: 12/24/2009

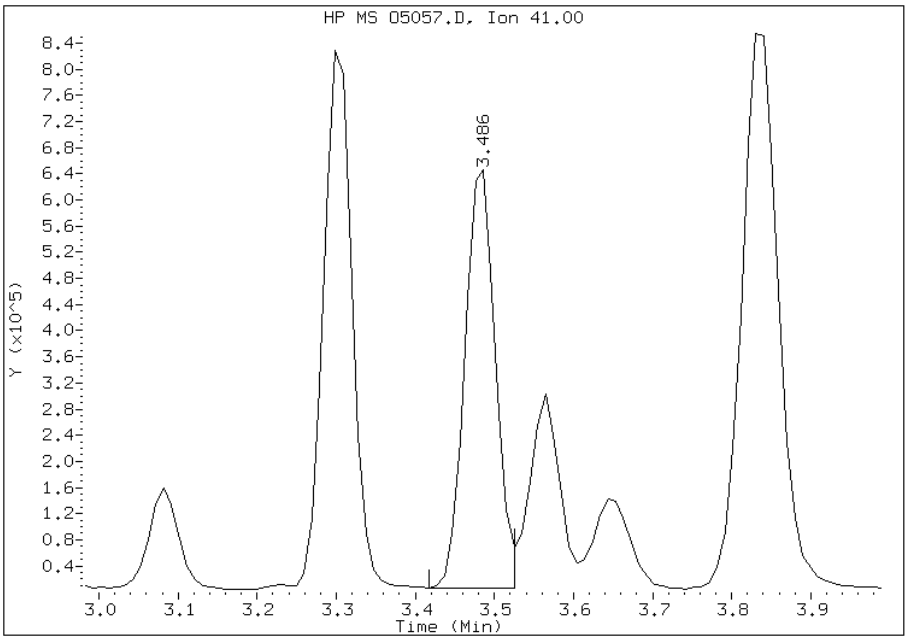
Processing Integration Results

RT: 3.49

Response: 1761577

Amount: 462

Conc: 462



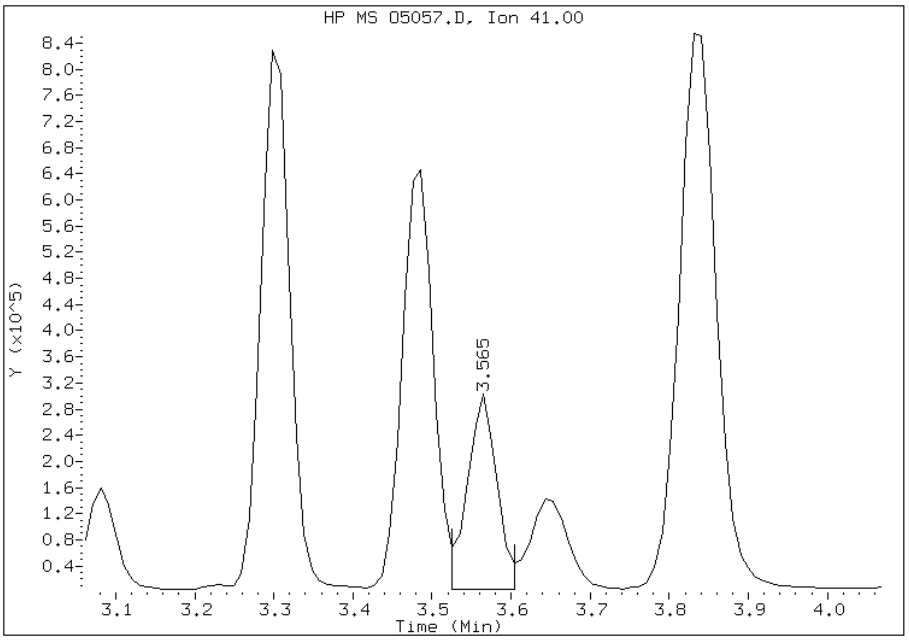
Manual Integration Results

RT: 3.56

Response: 800308

Amount: 223

Conc: 223



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5057.D
Inj. Date and Time: 23-DEC-2009 10:57
Instrument ID: mso.i
Client ID: IC;200
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/24/2009

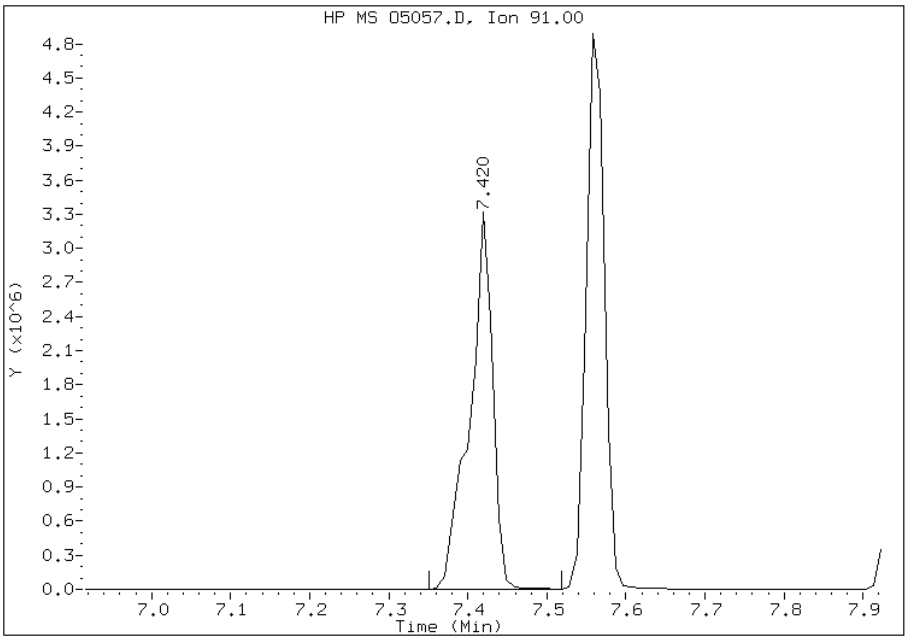
Processing Integration Results

RT: 7.42

Response: 6824118

Amount: 482

Conc: 482



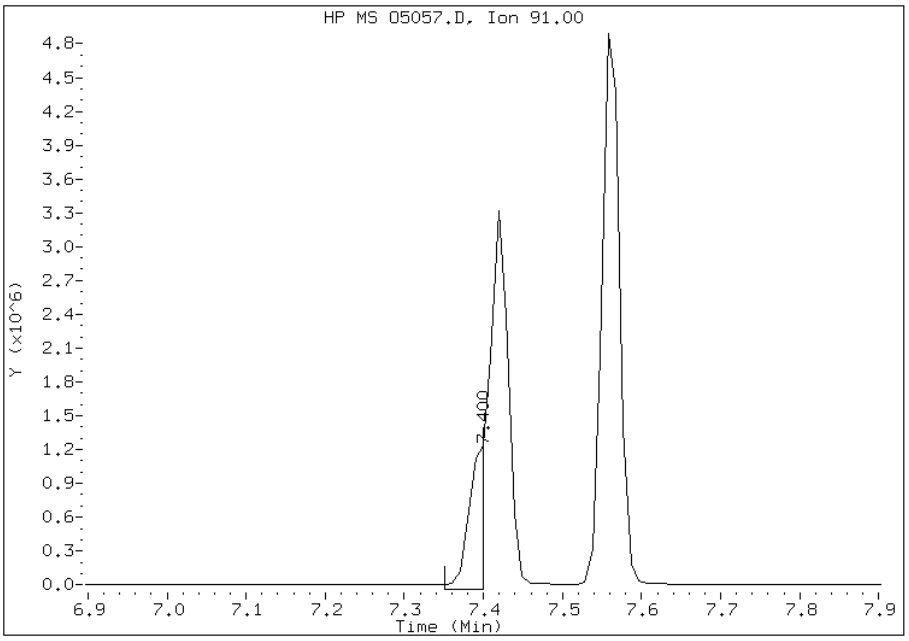
Manual Integration Results

RT: 7.40

Response: 1963180

Amount: 167

Conc: 167



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5057.D
Inj. Date and Time: 23-DEC-2009 10:57
Instrument ID: mso.i
Client ID: IC;200
Compound: 39 Ethyl Acetate
CAS #: 141-78-6
Report Date: 12/24/2009

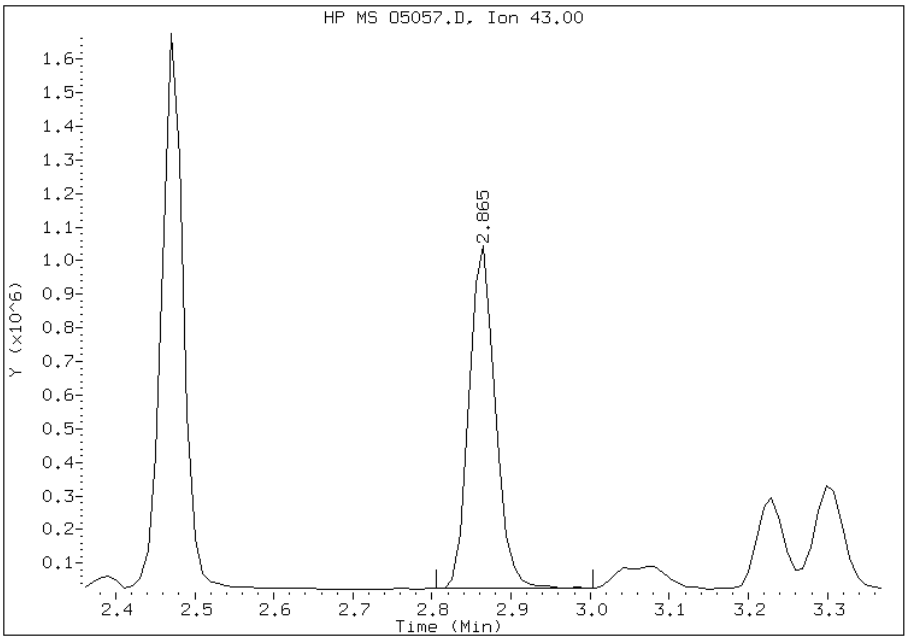
Processing Integration Results

RT: 2.86

Response: 2398418

Amount: 942

Conc: 942



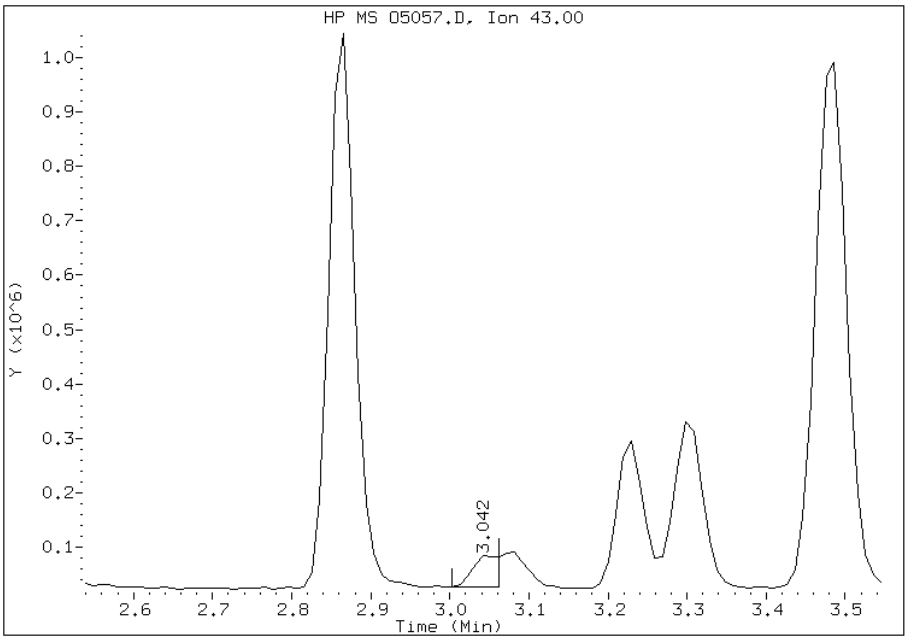
Manual Integration Results

RT: 3.04

Response: 139459

Amount: 372

Conc: 372



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5057.D
Inj. Date and Time: 23-DEC-2009 10:57
Instrument ID: mso.i
Client ID: IC;200
Compound: 67 1,4-Dioxane
CAS #: 123-91-1
Report Date: 12/24/2009

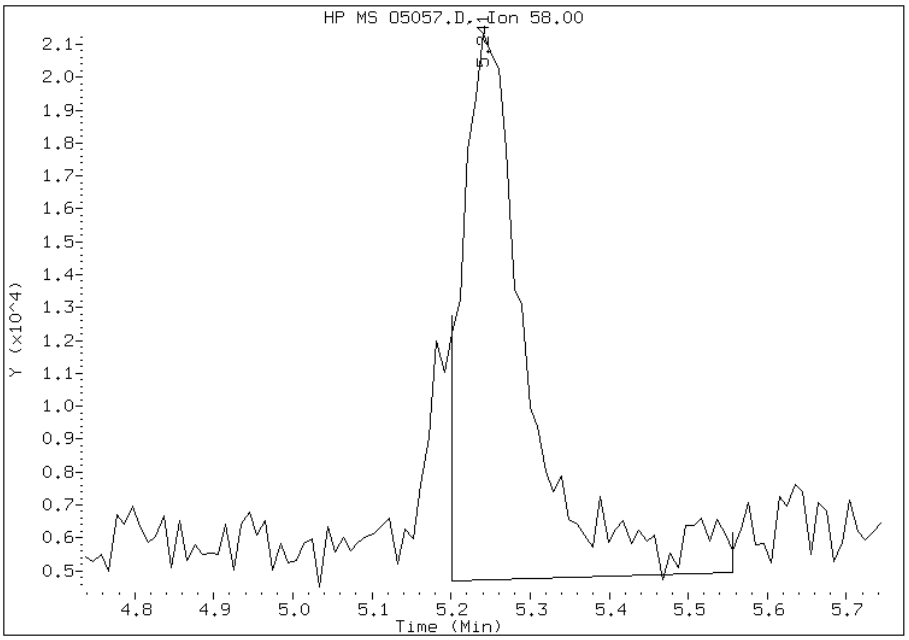
Processing Integration Results

RT: 5.24

Response: 99019

Amount: 2150

Conc: 2150



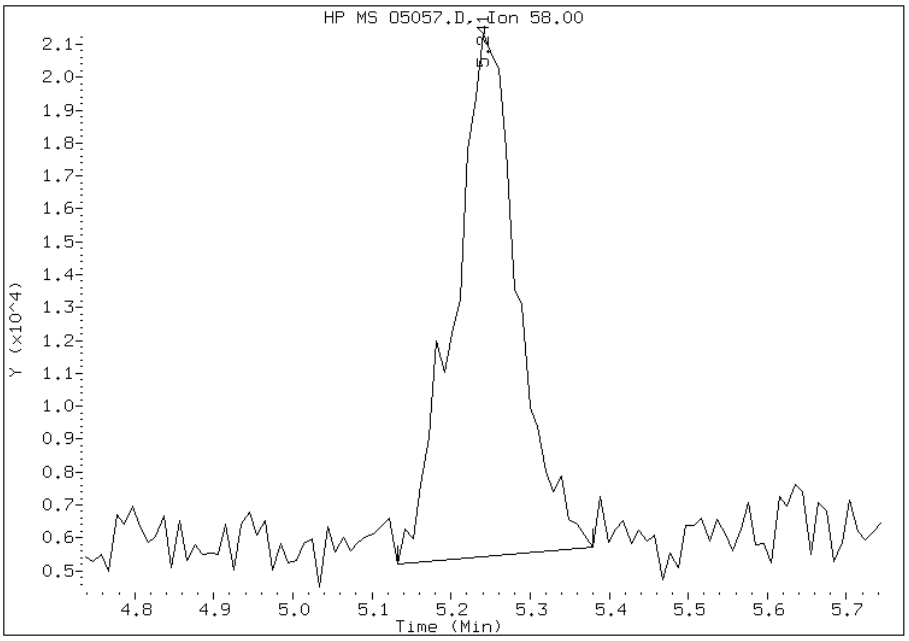
Manual Integration Results

RT: 5.24

Response: 89781

Amount: 1942

Conc: 1942



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O5058.D
Lab Smp Id: IC;150 Client Smp ID: IC;150
Inj Date : 23-DEC-2009 11:46 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : IC;150
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O8260BNS.m
Meth Date : 23-Dec-2009 17:13 mso.i Quant Type: ISTD
Cal Date : 23-DEC-2009 10:57 Cal File: O5057.D
Als bottle: 64 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
* 1	Fluorobenzene	96	4.019	4.019	(1.000)	252453	25.0000	
2	Dichlorodifluoromethane	85	0.943	0.943	(0.235)	801251	150.000	150
3	Chloromethane	50	1.022	1.022	(0.254)	1241793	150.000	150
4	Vinyl Chloride	62	1.062	1.062	(0.264)	995581	150.000	140
5	Bromomethane	94	1.210	1.210	(0.301)	663342	150.000	160
6	Chloroethane	64	1.259	1.259	(0.313)	590315	150.000	180
7	Trichlorofluoromethane	101	1.318	1.318	(0.328)	1310617	150.000	150
8	Dichlorofluoromethane	67	1.338	1.338	(0.333)	1721973	150.000	140
9	Ethyl Ether	45	1.446	1.446	(0.360)	464929	150.000	150
10	Ethanol	45	1.496	1.496	(0.372)	500736	1500.00	1400
12	Freon 123	67	1.555	1.555	(0.387)	297319	150.000	150
13	Trichlorotrifluoroethane	101	1.565	1.565	(0.389)	813991	150.000	160
14	1,1-Dichloroethene	96	1.555	1.555	(0.387)	590659	150.000	160
15	Carbon Disulfide	76	1.574	1.574	(0.392)	2871027	150.000	160
16	Iodomethane	142	1.634	1.634	(0.406)	1141845	150.000	170
17	Acrolein	56	1.722	1.722	(0.429)	330297	750.000	700
18	2-Propanol	45	1.860	1.860	(0.463)	94688	150.000	110
19	3-Chloro-1-Propene	41	1.781	1.781	(0.443)	1970474	150.000	160
20	Methylene Chloride	84	1.841	1.841	(0.458)	763706	150.000	160
21	Acetone	43	1.880	1.880	(0.468)	381821	150.000	140

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
	22 trans-1,2-Dichloroethene	96	1.929	1.929	(0.480)	792063	150.000	160
	23 Methyl Acetate	43	1.929	1.929	(0.480)	3267958	150.000	150
	24 Methyl tert-Butyl Ether	73	1.979	1.979	(0.492)	2162635	150.000	160
	25 tert-Butyl alcohol	59	2.067	2.067	(0.514)	480787	750.000	690
	26 Acetonitrile	41	2.166	2.166	(0.539)	785860	1500.00	1300
	27 Isopropyl ether	45	2.205	2.205	(0.549)	3724930	150.000	160
	28 tert-Butyl ethyl ether	59	2.462	2.462	(0.613)	3014855	150.000	150
	29 2-Chloro-1,3-Butadiene	88	2.294	2.294	(0.571)	640900	150.000	160
	30 Acrylonitrile	53	2.353	2.353	(0.586)	535805	300.000	300
	31 1,1-Dichloroethane	63	2.314	2.314	(0.576)	1855054	150.000	160
	32 Vinyl Acetate	43	2.472	2.472	(0.615)	2437046	150.000	160
	33 cis-1,2-Dichloroethene	96	2.708	2.708	(0.674)	829280	150.000	160
	34 2,2-Dichloropropane	77	2.797	2.797	(0.696)	1670483	150.000	160
	35 Bromochloromethane	128	2.876	2.876	(0.716)	360291	150.000	160
	37 Cyclohexane	84	2.876	2.876	(0.716)	1307813	150.000	160
	38 Chloroform	83	2.935	2.935	(0.730)	1713615	150.000	160
	39 Ethyl Acetate	43	3.053	3.053	(0.760)	93229	300.000	280(MH)
	40 Methyl Acrylate	55	3.053	3.053	(0.760)	659839	150.000	150(H)
$	41 Dibromofluoromethane	111	3.102	3.102	(0.772)	771105	150.000	160
	42 Tetrahydrofuran	42	3.083	3.083	(0.767)	523545	300.000	290
	43 Carbon Tetrachloride	117	3.063	3.063	(0.762)	1446838	150.000	170
	44 1,1,1-Trichloroethane	97	3.132	3.132	(0.779)	1469539	150.000	160
	45 2-Butanone	43	3.240	3.240	(0.806)	454295	150.000	150
	46 1,1-Dichloropropene	75	3.250	3.250	(0.809)	1408535	150.000	160
	47 tert-Amyl methyl ether	73	3.655	3.655	(0.909)	2212998	150.000	160
	49 1-Chlorobutane	56	3.300	3.300	(0.821)	2286350	150.000	160
	50 Heptane	43	3.477	3.477	(0.865)	2029526	150.000	160
	51 Propionitrile	54	3.556	3.556	(0.885)	940258	1500.00	1500
	52 Benzene	78	3.507	3.507	(0.872)	3209968	150.000	160
	53 2-Methyl-2-Propenenitrile	41	3.566	3.566	(0.887)	512348	150.000	130(M)
	54 Isobutyl alcohol	42	3.645	3.645	(0.907)	128455	1500.00	1500
$	55 1,2-Dichloroethane-d4	65	3.664	3.664	(0.912)	878904	150.000	150
	56 1,2-Dichloroethane	62	3.743	3.743	(0.931)	1273801	150.000	150
	59 Methyl Cyclohexane	83	4.217	4.217	(1.049)	1459466	150.000	150
	60 Trichloroethene	130	4.236	4.236	(1.054)	815276	150.000	160
	63 Dibromomethane	93	4.749	4.749	(1.181)	477921	150.000	150
	64 1,2-Dichloropropane	63	4.867	4.867	(1.211)	887233	150.000	150
	65 Bromodichloromethane	83	4.956	4.956	(1.233)	1249361	150.000	150
	66 Methyl Methacrylate	69	5.183	5.183	(1.289)	493395	150.000	160
	67 1,4-Dioxane	58	5.281	5.281	(1.314)	50890	1500.00	1200(M)
	69 2-Chloroethylvinylether	63	5.636	5.636	(1.402)	125582	150.000	150
	70 cis-1,3-Dichloropropene	75	5.666	5.666	(1.410)	1378934	150.000	150
	71 Chloroacetonitrile	48	6.100	6.100	(1.517)	273976	1500.00	1500
	72 2-Nitropropane	41	6.149	6.149	(1.530)	528471	300.000	310
	73 trans-1,3-Dichloropropene	75	6.346	6.346	(1.579)	1254889	150.000	150
	74 1,1,2-Trichloroethane	97	6.494	6.494	(1.616)	522340	150.000	150
*	75 Chlorobenzene-d5	117	7.352	7.352	(1.000)	204064	25.0000	
	76 Toluene	91	5.912	5.912	(0.804)	3134954	150.000	150
$	77 Toluene-d8	98	5.853	5.853	(0.796)	2419126	150.000	160
	78 1,1-Dichloro-2-propanone	43	6.159	6.159	(0.838)	2465911	750.000	720
	79 4-Methyl-2-Pentanone	43	6.326	6.326	(0.861)	929594	150.000	150
	80 Tetrachloroethene	164	6.287	6.287	(0.855)	726275	150.000	160
	81 Ethyl Methacrylate	69	6.553	6.553	(0.891)	932285	150.000	150
	82 Dibromochloromethane	129	6.661	6.661	(0.906)	797452	150.000	150

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
83	1,3-Dichloropropane	76	6.750	6.750	(0.918)	1104784	150.000	150
84	1,2-Dibromoethane	107	6.859	6.859	(0.933)	588663	150.000	150
86	2-Hexanone	43	7.145	7.145	(0.972)	707907	150.000	150
87	1-Chlorohexane	91	7.401	7.401	(1.007)	1452638	150.000	150(M)
88	Chlorobenzene	112	7.371	7.371	(1.003)	1861932	150.000	150
89	1,1,1,2-Tetrachloroethane	131	7.440	7.440	(1.012)	733926	150.000	150
90	Ethylbenzene	106	7.421	7.421	(1.009)	1018074	150.000	150(H)
91	Xylene (total)mp	106	7.559	7.559	(1.028)	2502651	300.000	310
92	Xylene (total)o	106	7.943	7.943	(1.080)	1169129	150.000	150
93	Styrene	104	7.992	7.992	(1.087)	1912398	150.000	160
94	Bromoform	173	7.992	7.992	(1.087)	513699	150.000	150
* 95	1,4-Dichlorobenzene-d4	152	9.442	9.442	(1.000)	105946	25.0000	
96	Isopropylbenzene	105	8.229	8.229	(0.872)	3269124	150.000	150
97	Bromobenzene	156	8.544	8.544	(0.905)	824566	150.000	150
98	1,1,2,2-Tetrachloroethane	83	8.673	8.673	(0.919)	687621	150.000	140
99	4-Ethyltoluene	105	8.702	8.702	(0.922)	3277135	150.000	150(H)
100	1,2,3-Trichloropropane	110	8.771	8.771	(0.929)	190363	150.000	150
101	trans-1,4-Dichloro-2-Butene	53	8.821	8.821	(0.934)	542981	300.000	280
102	n-Propylbenzene	91	8.604	8.604	(0.911)	4355641	150.000	150(H)
103	2-Chlorotoluene	91	8.712	8.712	(0.923)	2856021	150.000	150(H)
104	4-Chlorotoluene	91	8.870	8.870	(0.939)	2588463	150.000	150
105	1,3,5-Trimethylbenzene	105	8.781	8.781	(0.930)	2712042	150.000	150
106	tert-Butylbenzene	119	9.057	9.057	(0.959)	2320883	150.000	150
107	1,2,4-Trimethylbenzene	105	9.116	9.116	(0.966)	2619571	150.000	150
108	sec-Butylbenzene	105	9.205	9.205	(0.975)	3527123	150.000	150
109	4-Isopropyltoluene	119	9.343	9.343	(0.990)	2808534	150.000	150
110	1,3-Dichlorobenzene	146	9.373	9.373	(0.993)	1444587	150.000	150
111	1,4-Dichlorobenzene	146	9.461	9.461	(1.002)	1424060	150.000	150
112	1,2-Dichlorobenzene	146	9.816	9.816	(1.040)	1263938	150.000	150
113	Benzyl Chloride	126	9.678	9.678	(1.025)	233414	150.000	150
114	1,4-Diethylbenzene	119	9.668	9.668	(1.024)	1441106	150.000	150
115	n-Butylbenzene	91	9.708	9.708	(1.028)	3415024	150.000	170
118	1,2,4,5-Tetramethylbenzene	119	10.368	10.368	(1.098)	2287293	150.000	160
119	1,2-Dibromo-3-chloropropane	75	10.516	10.516	(1.114)	128644	150.000	140
120	Nitrobenzene	77	11.009	11.009	(1.166)	345848	1500.00	1400
121	1,2,4-Trichlorobenzene	180	11.118	11.118	(1.177)	826791	150.000	160
122	Hexachlorobutadiene	225	11.108	11.108	(1.176)	720785	150.000	170
123	Naphthalene	128	11.394	11.394	(1.207)	1257021	150.000	160
124	1,2,3-Trichlorobenzene	180	11.551	11.551	(1.223)	690226	150.000	160
$ 125	Bromofluorobenzene	95	8.466	8.466	(0.897)	1017953	150.000	150
M 126	1,2-Dichloroethene (total)	100				1621343	300.000	310
M 127	Xylene (total)	100				3671780	450.000	460

QC Flag Legend

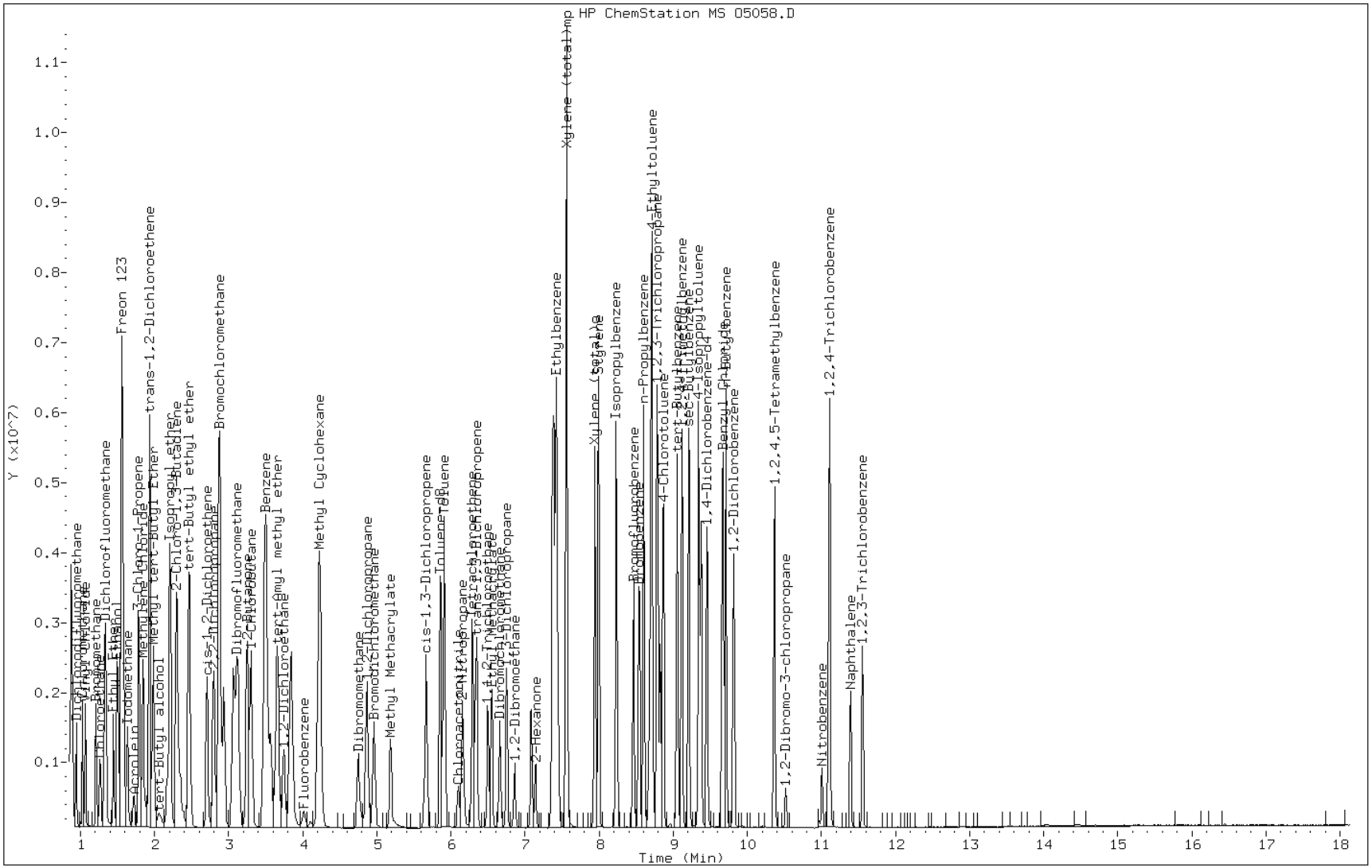
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: O5058.D

Date: 23-DEC-2009 11:46

Client ID: IC;150 Instrument: mso.i

Sample Info: IC;150 Operator: D. HUMBERT



Manual Integration Report

Data File: O5058.D
Inj. Date and Time: 23-DEC-2009 11:46
Instrument ID: mso.i
Client ID: IC;150
Compound: 67 1,4-Dioxane
CAS #: 123-91-1
Report Date: 12/24/2009

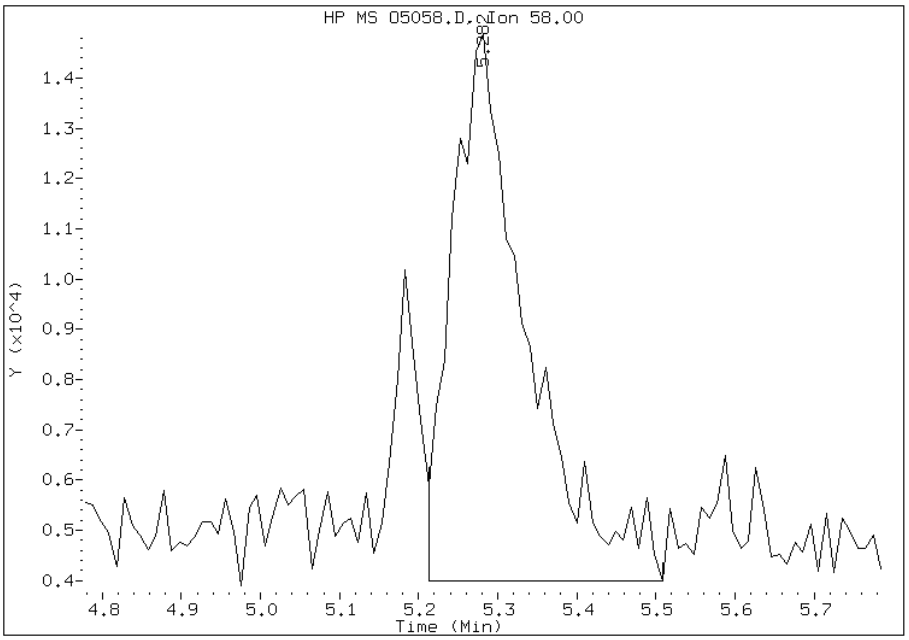
Processing Integration Results

RT: 5.28

Response: 73160

Amount: 1558

Conc: 1558



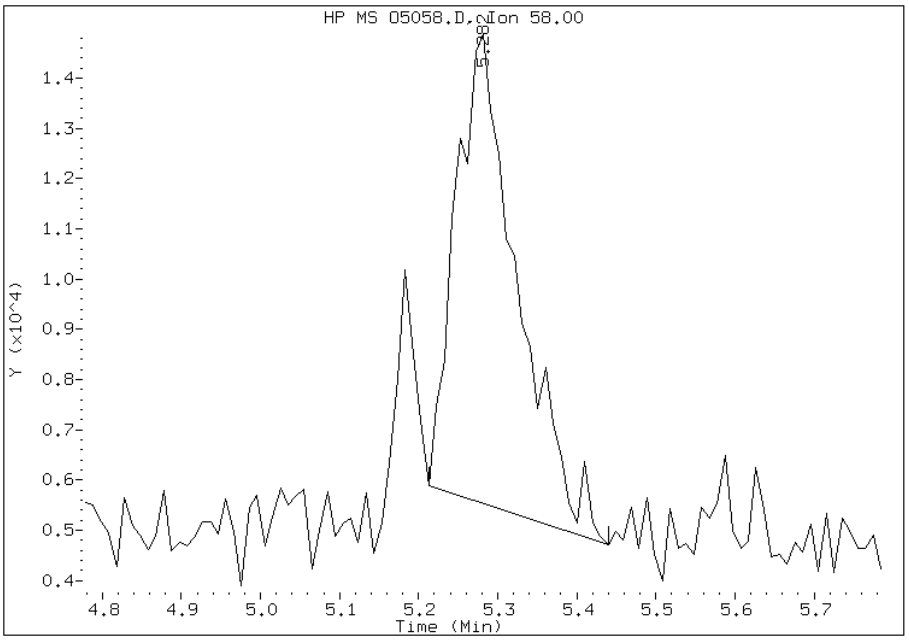
Manual Integration Results

RT: 5.28

Response: 50890

Amount: 1174

Conc: 1174



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5058.D
Inj. Date and Time: 23-DEC-2009 11:46
Instrument ID: mso.i
Client ID: IC;150
Compound: 39 Ethyl Acetate
CAS #: 141-78-6
Report Date: 12/24/2009

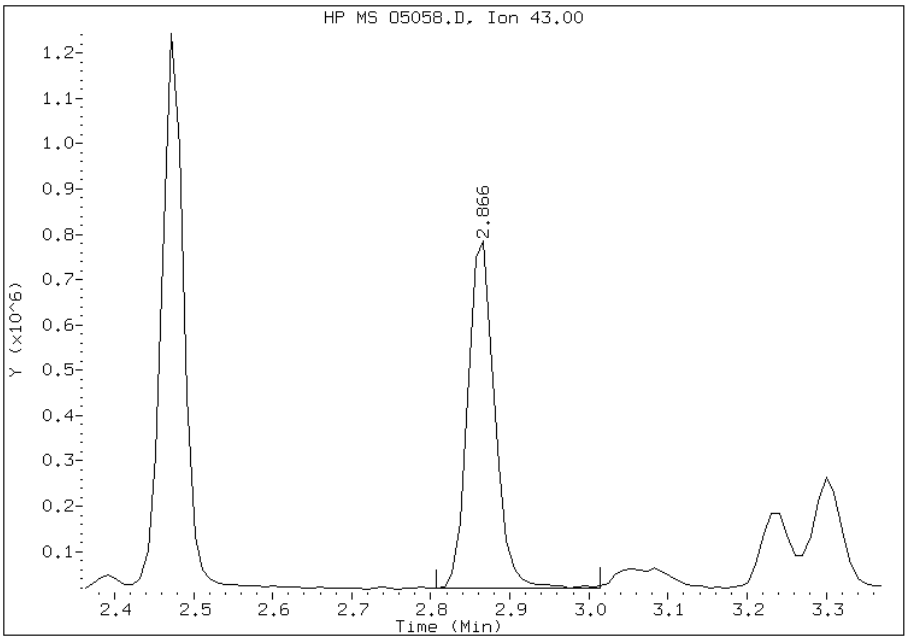
Processing Integration Results

RT: 2.87

Response: 1855976

Amount: 546

Conc: 546



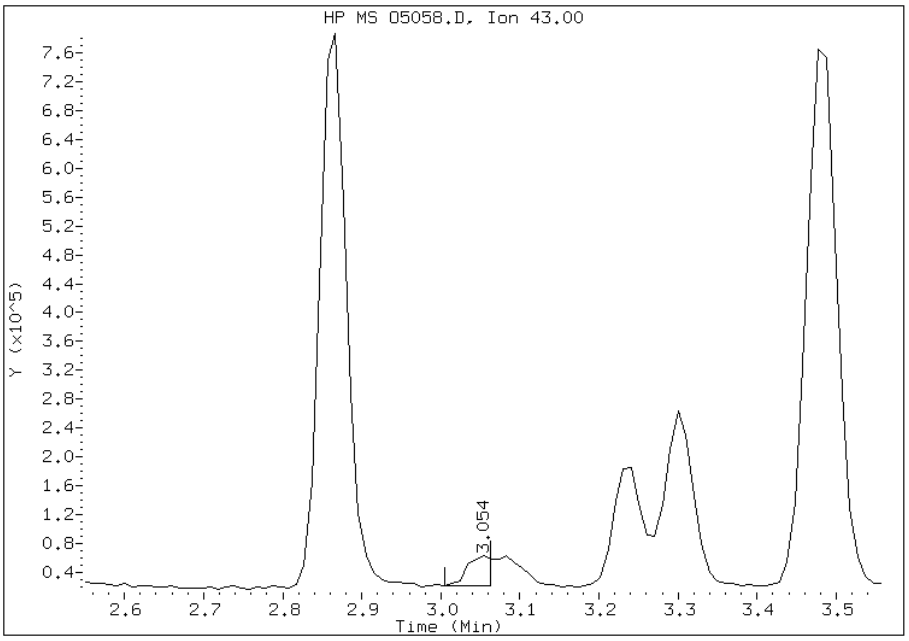
Manual Integration Results

RT: 3.05

Response: 93229

Amount: 277

Conc: 277



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5058.D
Inj. Date and Time: 23-DEC-2009 11:46
Instrument ID: mso.i
Client ID: IC;150
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/24/2009

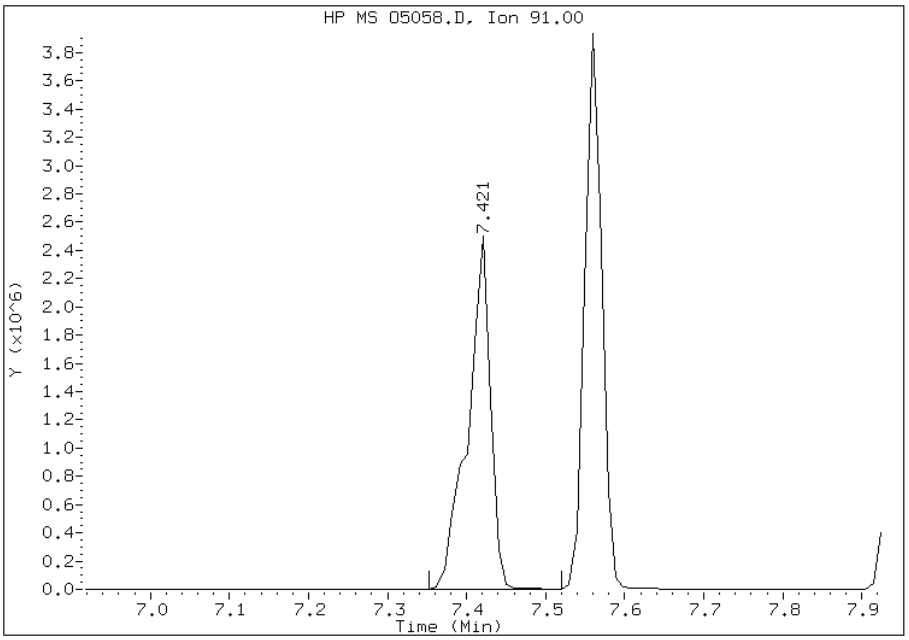
Processing Integration Results

RT: 7.42

Response: 5071260

Amount: 227

Conc: 227



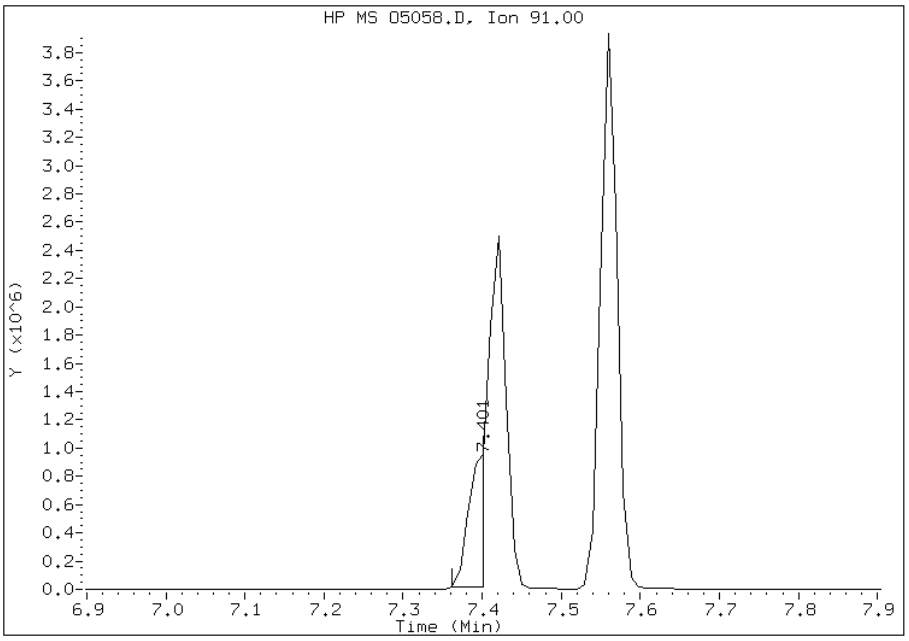
Manual Integration Results

RT: 7.40

Response: 1452638

Amount: 152

Conc: 152



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5058.D
Inj. Date and Time: 23-DEC-2009 11:46
Instrument ID: mso.i
Client ID: IC;150
Compound: 53 2-Methyl-2-Propenenitrile
CAS #: 126-98-7
Report Date: 12/24/2009

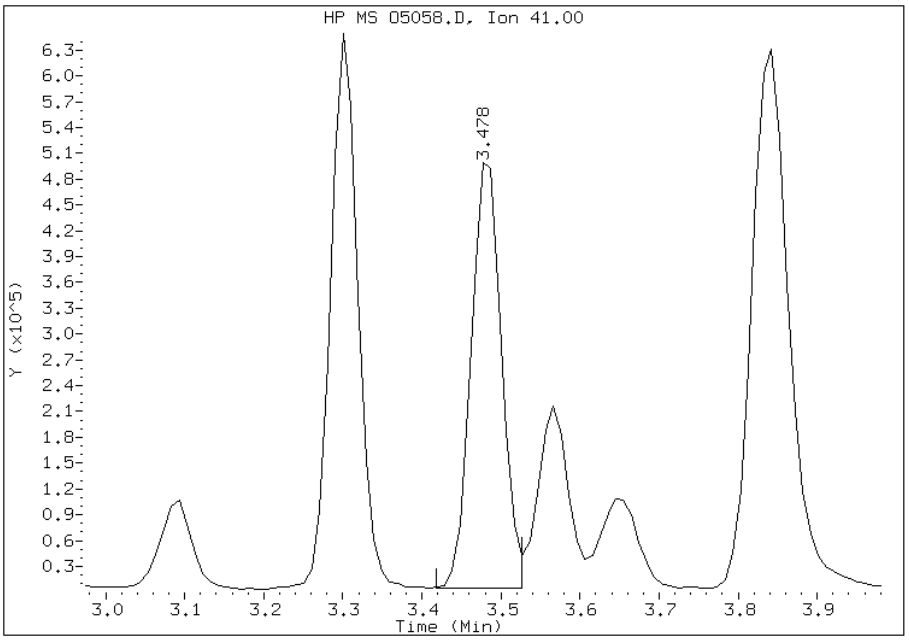
Processing Integration Results

RT: 3.48

Response: 1360001

Amount: 246

Conc: 246



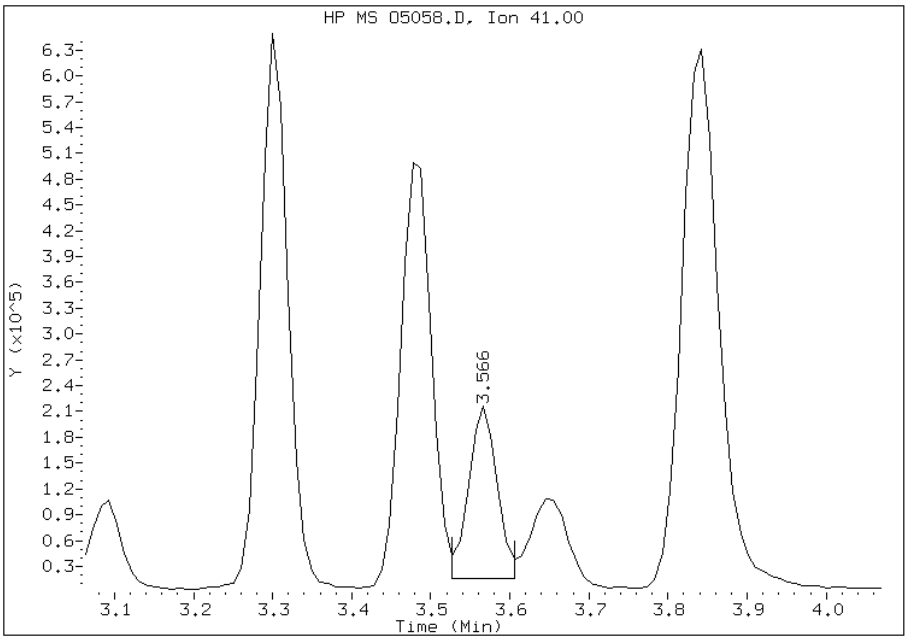
Manual Integration Results

RT: 3.57

Response: 512348

Amount: 133

Conc: 133



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O5059.D
Lab Smp Id: IC;100 Client Smp ID: IC;100
Inj Date : 23-DEC-2009 12:11 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : IC;100
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O8260BNS.m
Meth Date : 23-Dec-2009 17:13 mso.i Quant Type: ISTD
Cal Date : 23-DEC-2009 11:46 Cal File: O5058.D
Als bottle: 65 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
* 1	Fluorobenzene	96	4.014	4.014	(1.000)	272225	25.0000	
2	Dichlorodifluoromethane	85	0.947	0.947	(0.236)	577265	100.000	100
3	Chloromethane	50	1.026	1.026	(0.256)	927560	100.000	100
4	Vinyl Chloride	62	1.066	1.066	(0.266)	747662	100.000	100
5	Bromomethane	94	1.214	1.214	(0.302)	472883	100.000	100
6	Chloroethane	64	1.263	1.263	(0.315)	396778	100.000	100
7	Trichlorofluoromethane	101	1.322	1.322	(0.329)	910729	100.000	97
8	Dichlorofluoromethane	67	1.342	1.342	(0.334)	1239694	100.000	98
9	Ethyl Ether	45	1.450	1.450	(0.361)	337878	100.000	100
10	Ethanol	45	1.500	1.500	(0.374)	369655	1000.00	1000
12	Freon 123	67	1.559	1.559	(0.388)	212852	100.000	100
13	Trichlorotrifluoroethane	101	1.559	1.559	(0.388)	564860	100.000	99
14	1,1-Dichloroethene	96	1.559	1.559	(0.388)	417425	100.000	100
15	Carbon Disulfide	76	1.578	1.578	(0.393)	1995138	100.000	99
16	Iodomethane	142	1.638	1.638	(0.408)	794190	100.000	100
17	Acrolein	56	1.716	1.716	(0.428)	256857	500.000	520
18	2-Propanol	45	1.825	1.825	(0.455)	101822	100.000	130
19	3-Chloro-1-Propene	41	1.785	1.785	(0.445)	1302404	100.000	94
20	Methylene Chloride	84	1.845	1.845	(0.460)	544830	100.000	100
21	Acetone	43	1.874	1.874	(0.467)	299601	100.000	100

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
	22 trans-1,2-Dichloroethene	96	1.933	1.933	(0.482)	537553	100.000	96
	23 Methyl Acetate	43	1.933	1.933	(0.482)	2427684	100.000	100
	24 Methyl tert-Butyl Ether	73	1.983	1.983	(0.494)	1509845	100.000	100
	25 tert-Butyl alcohol	59	2.062	2.062	(0.514)	376229	500.000	520
	26 Acetonitrile	41	2.160	2.160	(0.538)	660475	1000.00	1100
	27 Isopropyl ether	45	2.209	2.209	(0.551)	2585165	100.000	99
	28 tert-Butyl ethyl ether	59	2.466	2.466	(0.614)	2123425	100.000	100
	29 2-Chloro-1,3-Butadiene	88	2.298	2.298	(0.573)	447007	100.000	99
	30 Acrylonitrile	53	2.347	2.347	(0.585)	380956	200.000	200
	31 1,1-Dichloroethane	63	2.308	2.308	(0.575)	1277748	100.000	98
	32 Vinyl Acetate	43	2.476	2.476	(0.617)	1683972	100.000	77
	33 cis-1,2-Dichloroethene	96	2.712	2.712	(0.676)	574410	100.000	98
	34 2,2-Dichloropropane	77	2.801	2.801	(0.698)	1116346	100.000	95
	35 Bromochloromethane	128	2.880	2.880	(0.718)	253664	100.000	100
	37 Cyclohexane	84	2.880	2.880	(0.718)	906030	100.000	98
	38 Chloroform	83	2.939	2.939	(0.732)	1163847	100.000	96
	39 Ethyl Acetate	43	3.047	3.047	(0.759)	89346	200.000	260(MH)
	40 Methyl Acrylate	55	3.057	3.057	(0.762)	476121	100.000	100(H)
$	41 Dibromofluoromethane	111	3.107	3.107	(0.774)	513643	100.000	95
	42 Tetrahydrofuran	42	3.087	3.087	(0.769)	397364	200.000	210
	43 Carbon Tetrachloride	117	3.067	3.067	(0.764)	868454	100.000	89
	44 1,1,1-Trichloroethane	97	3.126	3.126	(0.779)	1005934	100.000	97
	45 2-Butanone	43	3.235	3.235	(0.806)	311190	100.000	94
	46 1,1-Dichloropropene	75	3.254	3.254	(0.811)	963335	100.000	97
	47 tert-Amyl methyl ether	73	3.649	3.649	(0.909)	1537568	100.000	98
	49 1-Chlorobutane	56	3.304	3.304	(0.823)	1552093	100.000	96
	50 Heptane	43	3.481	3.481	(0.867)	1378805	100.000	97
	51 Propionitrile	54	3.560	3.560	(0.887)	688045	1000.00	1000
	52 Benzene	78	3.511	3.511	(0.875)	2192055	100.000	97
	53 2-Methyl-2-Propenenitrile	41	3.570	3.570	(0.889)	359647	100.000	92(M)
	54 Isobutyl alcohol	42	3.649	3.649	(0.909)	95000	1000.00	970
$	55 1,2-Dichloroethane-d4	65	3.668	3.668	(0.914)	587518	100.000	94
	56 1,2-Dichloroethane	62	3.747	3.747	(0.934)	879670	100.000	98
	59 Methyl Cyclohexane	83	4.221	4.221	(1.052)	1028098	100.000	99
	60 Trichloroethene	130	4.240	4.240	(1.056)	568939	100.000	99
	63 Dibromomethane	93	4.743	4.743	(1.182)	332288	100.000	98
	64 1,2-Dichloropropane	63	4.871	4.871	(1.214)	627702	100.000	100
	65 Bromodichloromethane	83	4.960	4.960	(1.236)	840266	100.000	94
	66 Methyl Methacrylate	69	5.187	5.187	(1.292)	355792	100.000	100
	67 1,4-Dioxane	58	5.256	5.256	(1.309)	56130	1000.00	1300(M)
	69 2-Chloroethylvinylether	63	5.630	5.630	(1.403)	90595	100.000	100
	70 cis-1,3-Dichloropropene	75	5.670	5.670	(1.413)	955630	100.000	98
	71 Chloroacetonitrile	48	6.094	6.094	(1.518)	199581	1000.00	1000
	72 2-Nitropropane	41	6.143	6.143	(1.531)	373363	200.000	200
	73 trans-1,3-Dichloropropene	75	6.350	6.350	(1.582)	877003	100.000	98
	74 1,1,2-Trichloroethane	97	6.498	6.498	(1.619)	362100	100.000	97
*	75 Chlorobenzene-d5	117	7.356	7.356	(1.000)	217195	25.0000	
	76 Toluene	91	5.906	5.906	(0.803)	2181296	100.000	99
$	77 Toluene-d8	98	5.857	5.857	(0.796)	1611618	100.000	96
	78 1,1-Dichloro-2-propanone	43	6.163	6.163	(0.838)	1843766	500.000	520
	79 4-Methyl-2-Pentanone	43	6.320	6.320	(0.859)	688437	100.000	100
	80 Tetrachloroethene	164	6.291	6.291	(0.855)	504907	100.000	100
	81 Ethyl Methacrylate	69	6.547	6.547	(0.890)	666241	100.000	100
	82 Dibromochloromethane	129	6.656	6.656	(0.905)	554161	100.000	98

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
83	1,3-Dichloropropane	76	6.754	6.754	(0.918)	775578	100.000	100
84	1,2-Dibromoethane	107	6.863	6.863	(0.933)	415369	100.000	99
86	2-Hexanone	43	7.139	7.139	(0.971)	568701	100.000	110
87	1-Chlorohexane	91	7.405	7.405	(1.007)	1369646	100.000	130(M)
88	Chlorobenzene	112	7.365	7.365	(1.001)	1301203	100.000	100
89	1,1,1,2-Tetrachloroethane	131	7.444	7.444	(1.012)	510371	100.000	99
90	Ethylbenzene	106	7.425	7.425	(1.009)	711787	100.000	100(H)
91	Xylene (total)mp	106	7.563	7.563	(1.028)	1767345	200.000	200
92	Xylene (total)o	106	7.937	7.937	(1.079)	832126	100.000	100
93	Styrene	104	7.987	7.987	(1.086)	1341590	100.000	100
94	Bromoform	173	7.987	7.987	(1.086)	369737	100.000	100
* 95	1,4-Dichlorobenzene-d4	152	9.446	9.446	(1.000)	114523	25.0000	
96	Isopropylbenzene	105	8.233	8.233	(0.872)	2325428	100.000	98
97	Bromobenzene	156	8.539	8.539	(0.904)	586476	100.000	98
98	1,1,2,2-Tetrachloroethane	83	8.667	8.667	(0.918)	507226	100.000	100
99	4-Ethyltoluene	105	8.706	8.706	(0.922)	2338283	100.000	99(H)
100	1,2,3-Trichloropropane	110	8.765	8.765	(0.928)	141408	100.000	100
101	trans-1,4-Dichloro-2-Butene	53	8.825	8.825	(0.934)	407485	200.000	200
102	n-Propylbenzene	91	8.598	8.598	(0.910)	3073272	100.000	98(H)
103	2-Chlorotoluene	91	8.716	8.716	(0.923)	2055159	100.000	99(H)
104	4-Chlorotoluene	91	8.864	8.864	(0.938)	1832538	100.000	98
105	1,3,5-Trimethylbenzene	105	8.785	8.785	(0.930)	1928308	100.000	99
106	tert-Butylbenzene	119	9.051	9.051	(0.958)	1658656	100.000	99
107	1,2,4-Trimethylbenzene	105	9.120	9.120	(0.966)	1860696	100.000	99
108	sec-Butylbenzene	105	9.209	9.209	(0.975)	2499657	100.000	99
109	4-Isopropyltoluene	119	9.347	9.347	(0.990)	2010064	100.000	99
110	1,3-Dichlorobenzene	146	9.377	9.377	(0.993)	1017130	100.000	99
111	1,4-Dichlorobenzene	146	9.456	9.456	(1.001)	1019434	100.000	100
112	1,2-Dichlorobenzene	146	9.820	9.820	(1.040)	901264	100.000	100
113	Benzyl Chloride	126	9.682	9.682	(1.025)	171208	100.000	100
114	1,4-Diethylbenzene	119	9.663	9.663	(1.023)	1021363	100.000	100
115	n-Butylbenzene	91	9.712	9.712	(1.028)	2237594	100.000	97
118	1,2,4,5-Tetramethylbenzene	119	10.363	10.363	(1.097)	1669945	100.000	100
119	1,2-Dibromo-3-chloropropane	75	10.510	10.510	(1.113)	96075	100.000	100
120	Nitrobenzene	77	11.003	11.003	(1.165)	236530	1000.00	1000
121	1,2,4-Trichlorobenzene	180	11.112	11.112	(1.176)	609696	100.000	92
122	Hexachlorobutadiene	225	11.102	11.102	(1.175)	531446	100.000	110
123	Naphthalene	128	11.388	11.388	(1.206)	972917	100.000	92
124	1,2,3-Trichlorobenzene	180	11.555	11.555	(1.223)	514374	100.000	90
$ 125	Bromofluorobenzene	95	8.460	8.460	(0.896)	702570	100.000	96
M 126	1,2-Dichloroethene (total)	100				1111963	200.000	190
M 127	Xylene (total)	100				2599471	300.000	300

QC Flag Legend

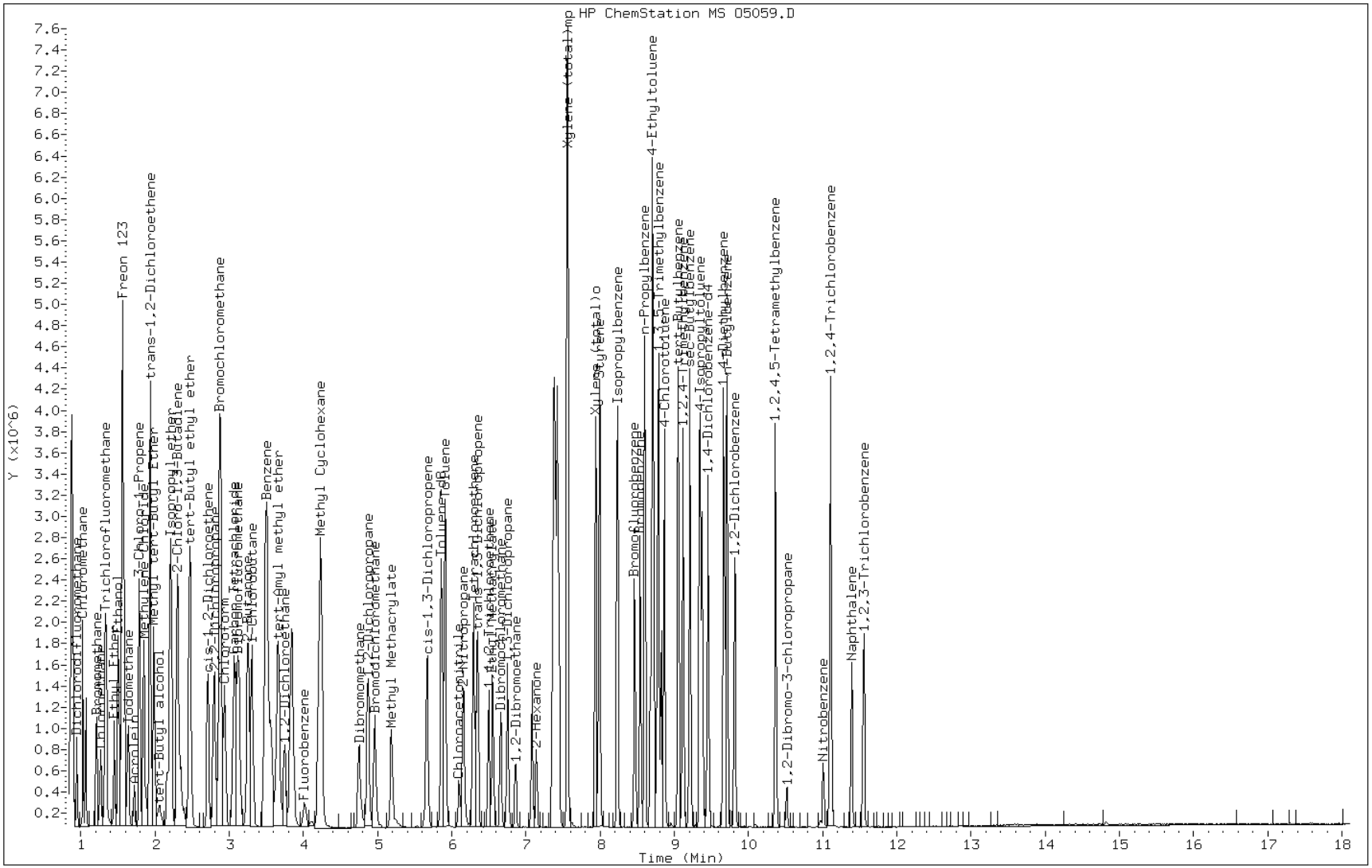
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: O5059.D

Date: 23-DEC-2009 12:11

Client ID: IC;100 Instrument: mso.i

Sample Info: IC;100 Operator: D. HUMBERT



Manual Integration Report

Data File: O5059.D
Inj. Date and Time: 23-DEC-2009 12:11
Instrument ID: mso.i
Client ID: IC;100
Compound: 39 Ethyl Acetate
CAS #: 141-78-6
Report Date: 12/24/2009

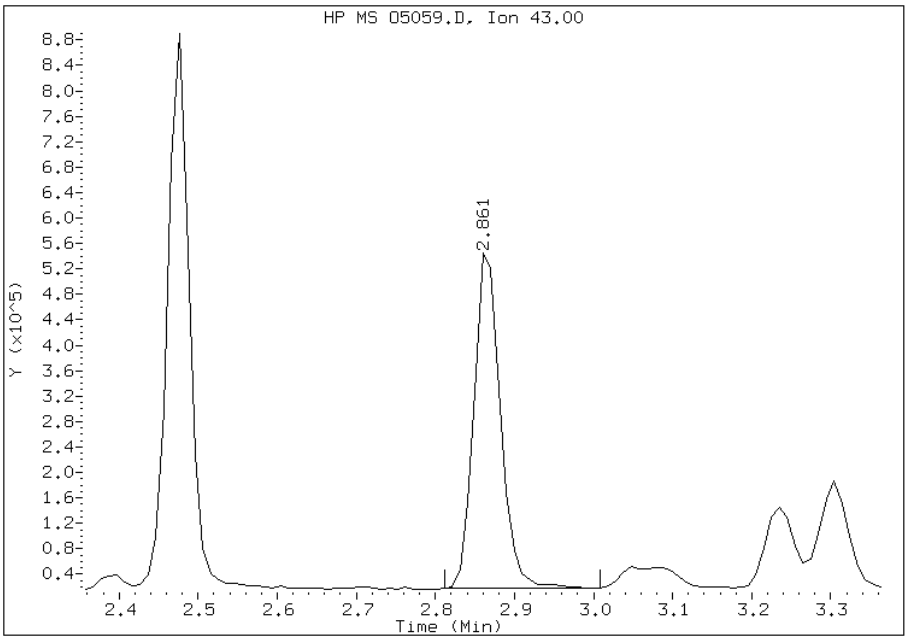
Processing Integration Results

RT: 2.86

Response: 1244488

Amount: 270

Conc: 270



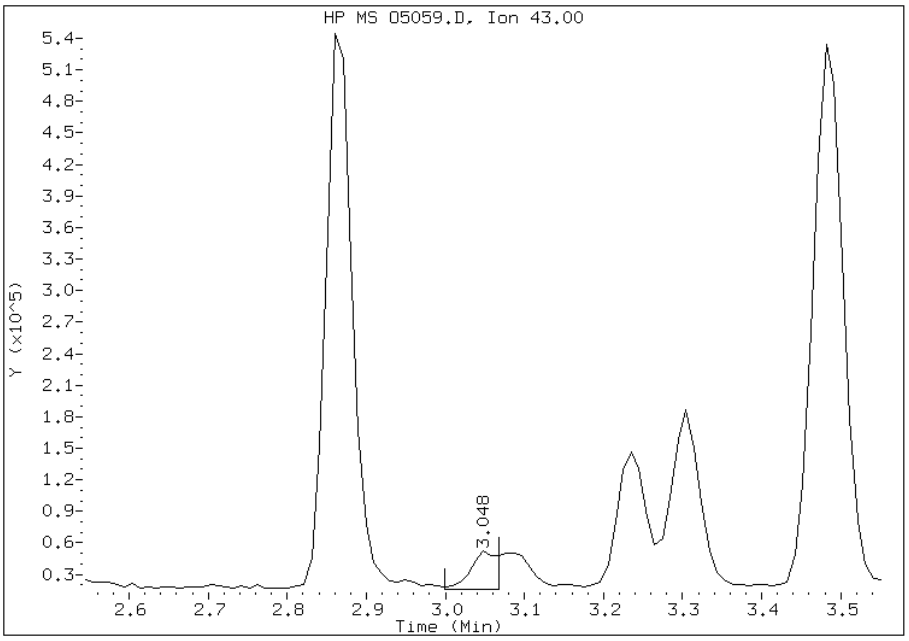
Manual Integration Results

RT: 3.05

Response: 89346

Amount: 256

Conc: 256



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5059.D
Inj. Date and Time: 23-DEC-2009 12:11
Instrument ID: mso.i
Client ID: IC;100
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/24/2009

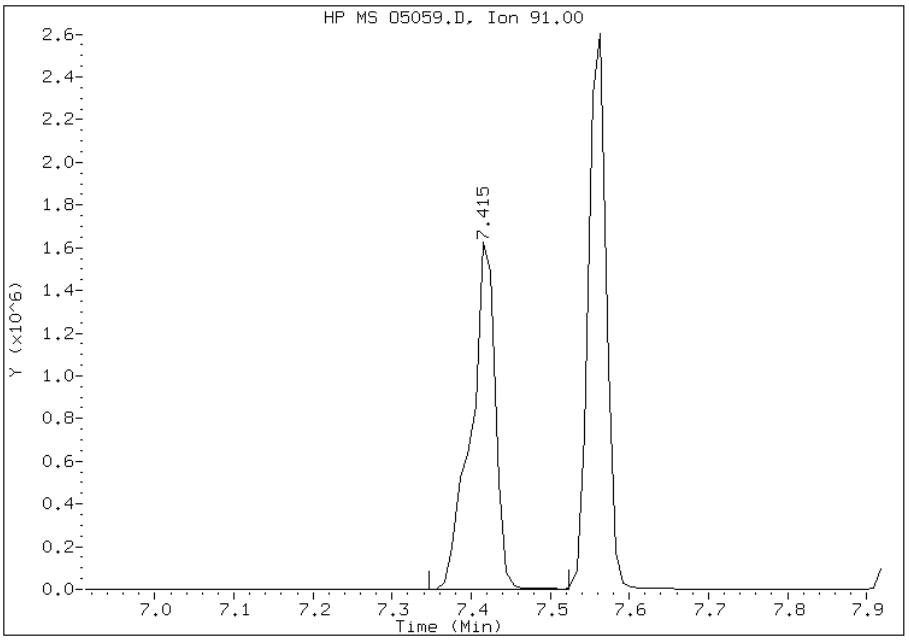
Processing Integration Results

RT: 7.42

Response: 3543840

Amount: 182

Conc: 182



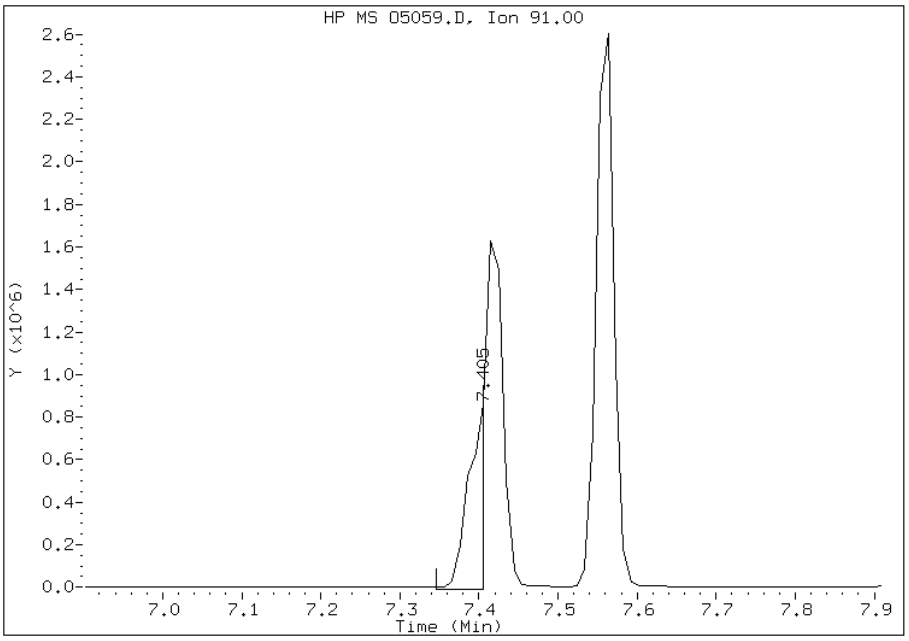
Manual Integration Results

RT: 7.41

Response: 1369646

Amount: 134

Conc: 134



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5059.D
Inj. Date and Time: 23-DEC-2009 12:11
Instrument ID: mso.i
Client ID: IC;100
Compound: 67 1,4-Dioxane
CAS #: 123-91-1
Report Date: 12/24/2009

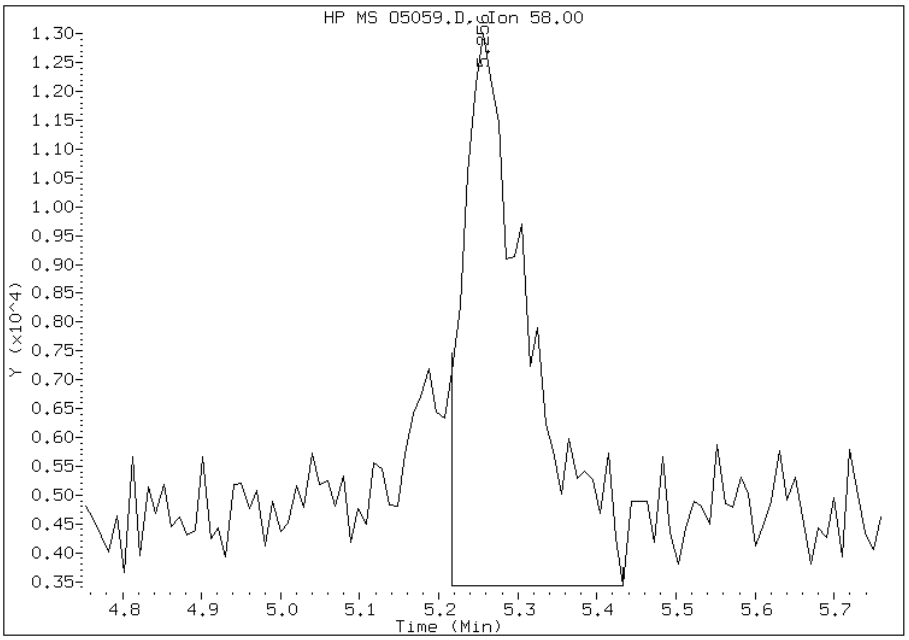
Processing Integration Results

RT: 5.26

Response: 56804

Amount: 1202

Conc: 1202



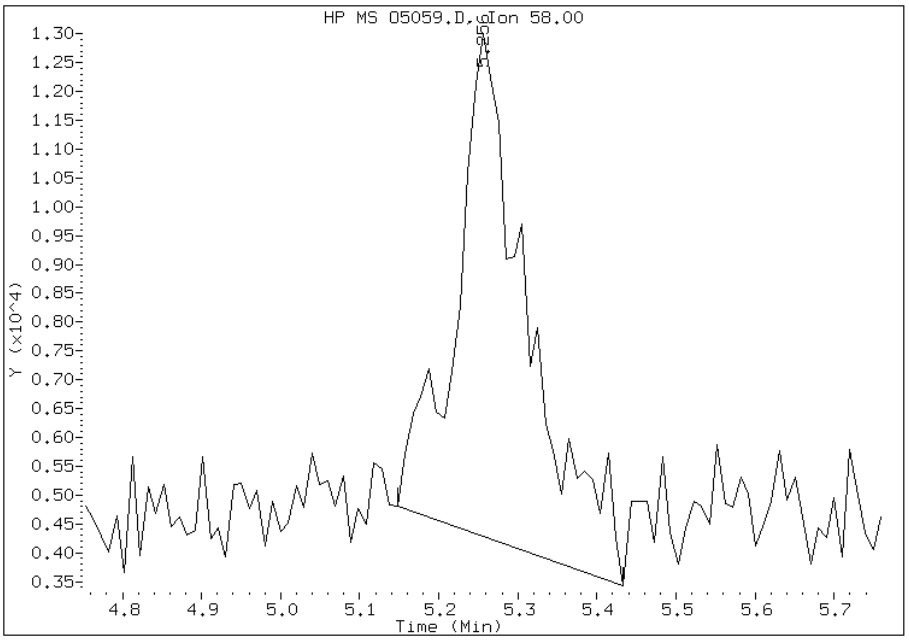
Manual Integration Results

RT: 5.26

Response: 56130

Amount: 1347

Conc: 1347



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5059.D
Inj. Date and Time: 23-DEC-2009 12:11
Instrument ID: mso.i
Client ID: IC;100
Compound: 53 2-Methyl-2-Propenenitrile
CAS #: 126-98-7
Report Date: 12/24/2009

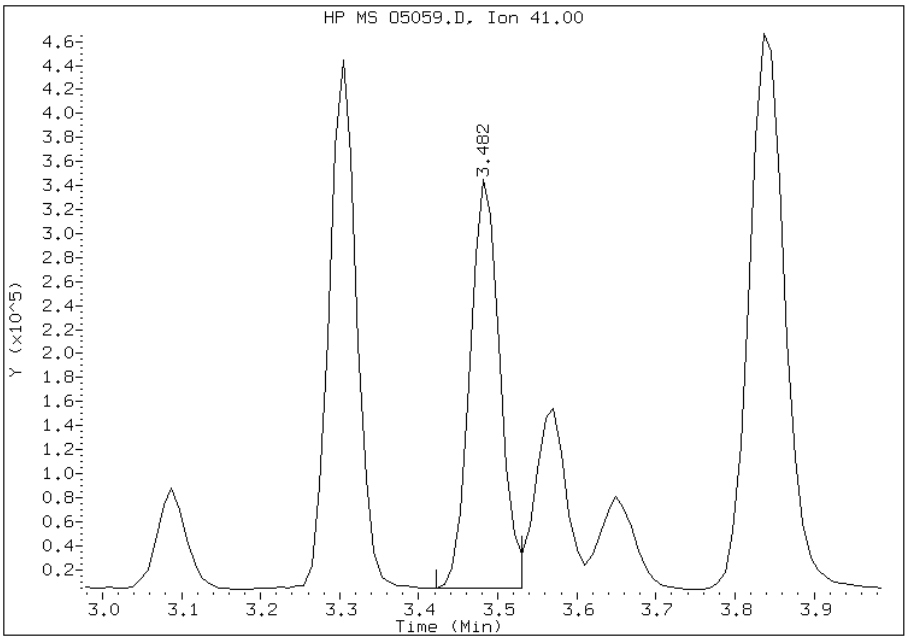
Processing Integration Results

RT: 3.48

Response: 914220

Amount: 193

Conc: 193



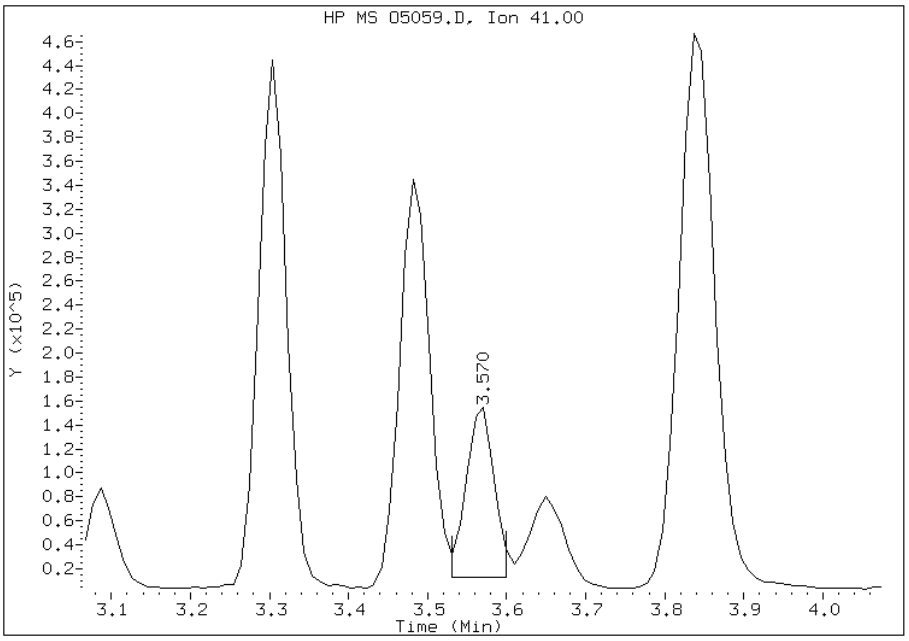
Manual Integration Results

RT: 3.57

Response: 359647

Amount: 92

Conc: 92



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O5060.D
Lab Smp Id: IC;50 Client Smp ID: IC;50
Inj Date : 23-DEC-2009 12:36 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : IC;50
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O8260BNS.m
Meth Date : 23-Dec-2009 17:13 mso.i Quant Type: ISTD
Cal Date : 23-DEC-2009 12:36 Cal File: O5060.D
Als bottle: 66 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
* 1	Fluorobenzene	96	4.023	4.018	(1.000)	267338	25.0000	
2	Dichlorodifluoromethane	85	0.947	0.942	(0.235)	289296	50.0000	52
3	Chloromethane	50	1.025	1.031	(0.255)	446943	50.0000	50
4	Vinyl Chloride	62	1.065	1.060	(0.265)	374043	50.0000	52
5	Bromomethane	94	1.213	1.208	(0.302)	242294	50.0000	53
6	Chloroethane	64	1.262	1.257	(0.314)	204792	50.0000	54
7	Trichlorofluoromethane	101	1.321	1.316	(0.329)	490393	50.0000	54
8	Dichlorofluoromethane	67	1.341	1.336	(0.333)	680625	50.0000	55
9	Ethyl Ether	45	1.449	1.445	(0.360)	175339	50.0000	53
10	Ethanol	45	1.499	1.504	(0.373)	218476	500.000	600
12	Freon 123	67	1.558	1.553	(0.387)	108551	50.0000	52
13	Trichlorotrifluoroethane	101	1.568	1.563	(0.390)	286371	50.0000	51
14	1,1-Dichloroethene	96	1.558	1.553	(0.387)	215801	50.0000	53
15	Carbon Disulfide	76	1.587	1.583	(0.395)	1022164	50.0000	52
16	Iodomethane	142	1.637	1.632	(0.407)	411410	50.0000	53
17	Acrolein	56	1.716	1.711	(0.427)	143266	250.000	290
18	2-Propanol	45	1.814	1.829	(0.451)	49513	50.0000	58
19	3-Chloro-1-Propene	41	1.785	1.790	(0.444)	686909	50.0000	52
20	Methylene Chloride	84	1.844	1.839	(0.458)	279139	50.0000	52
21	Acetone	43	1.873	1.869	(0.466)	157954	50.0000	55
22	trans-1,2-Dichloroethene	96	1.932	1.928	(0.480)	270361	50.0000	50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
	23 Methyl Acetate	43	1.932	1.928	(0.480)	1206957	50.0000	52
	24 Methyl tert-Butyl Ether	73	1.982	1.977	(0.493)	762519	50.0000	51
	25 tert-Butyl alcohol	59	2.051	2.046	(0.510)	204026	250.000	280
	26 Acetonitrile	41	2.159	2.154	(0.537)	366664	500.000	590
	27 Isopropyl ether	45	2.209	2.204	(0.549)	1335214	50.0000	52
	28 tert-Butyl ethyl ether	59	2.465	2.460	(0.613)	1079889	50.0000	52
	29 2-Chloro-1,3-Butadiene	88	2.297	2.292	(0.571)	227039	50.0000	52
	30 Acrylonitrile	53	2.347	2.342	(0.583)	197607	100.000	100
	31 1,1-Dichloroethane	63	2.317	2.312	(0.576)	644381	50.0000	50
	32 Vinyl Acetate	43	2.475	2.470	(0.615)	875218	50.0000	48
	33 cis-1,2-Dichloroethene	96	2.711	2.707	(0.674)	286996	50.0000	50
	34 2,2-Dichloropropane	77	2.800	2.795	(0.696)	556747	50.0000	49
	35 Bromochloromethane	128	2.879	2.874	(0.716)	131992	50.0000	53
	37 Cyclohexane	84	2.879	2.884	(0.716)	473148	50.0000	52
	38 Chloroform	83	2.938	2.933	(0.730)	595136	50.0000	51
	39 Ethyl Acetate	43	3.056	3.042	(0.760)	56580	100.000	150(MH)
	40 Methyl Acrylate	55	3.056	3.052	(0.760)	244766	50.0000	53(H)
$	41 Dibromofluoromethane	111	3.106	3.101	(0.772)	132286	25.0000	25
	42 Tetrahydrofuran	42	3.086	3.081	(0.767)	220373	100.000	120
	43 Carbon Tetrachloride	117	3.066	3.061	(0.762)	443948	50.0000	48
	44 1,1,1-Trichloroethane	97	3.135	3.130	(0.779)	510610	50.0000	51
	45 2-Butanone	43	3.234	3.229	(0.804)	167481	50.0000	53
	46 1,1-Dichloropropene	75	3.254	3.249	(0.809)	474405	50.0000	49
	47 tert-Amyl methyl ether	73	3.648	3.653	(0.907)	796898	50.0000	52
	49 1-Chlorobutane	56	3.303	3.298	(0.821)	796800	50.0000	51
	50 Heptane	43	3.480	3.485	(0.865)	727183	50.0000	52
	51 Propionitrile	54	3.549	3.545	(0.882)	365570	500.000	540
	52 Benzene	78	3.510	3.505	(0.873)	1114293	50.0000	51
	53 2-Methyl-2-Propenenitrile	41	3.569	3.564	(0.887)	210252	50.0000	56(M)
	54 Isobutyl alcohol	42	3.658	3.643	(0.909)	43874	500.000	400
$	55 1,2-Dichloroethane-d4	65	3.668	3.663	(0.912)	155063	25.0000	26
	56 1,2-Dichloroethane	62	3.746	3.742	(0.931)	440340	50.0000	50
	59 Methyl Cyclohexane	83	4.220	4.215	(1.049)	528846	50.0000	52
	60 Trichloroethene	130	4.239	4.235	(1.054)	283752	50.0000	50
	63 Dibromomethane	93	4.742	4.747	(1.179)	165969	50.0000	50
	64 1,2-Dichloropropane	63	4.870	4.866	(1.211)	314771	50.0000	51
	65 Bromodichloromethane	83	4.959	4.964	(1.233)	425305	50.0000	50
	66 Methyl Methacrylate	69	5.186	5.181	(1.289)	185767	50.0000	54
	67 1,4-Dioxane	58	5.245	5.240	(1.304)	29162	500.000	640(M)
	69 2-Chloroethylvinylether	63	5.639	5.635	(1.402)	45705	50.0000	51
	70 cis-1,3-Dichloropropene	75	5.669	5.664	(1.409)	479052	50.0000	50
	71 Chloroacetonitrile	48	6.093	6.098	(1.515)	108570	500.000	560
	72 2-Nitropropane	41	6.142	6.147	(1.527)	193604	100.000	100
	73 trans-1,3-Dichloropropene	75	6.349	6.344	(1.578)	436160	50.0000	50
	74 1,1,2-Trichloroethane	97	6.497	6.502	(1.615)	183858	50.0000	51
*	75 Chlorobenzene-d5	117	7.355	7.360	(1.000)	210022	25.0000	
	76 Toluene	91	5.906	5.911	(0.803)	1144098	50.0000	54
$	77 Toluene-d8	98	5.856	5.861	(0.796)	418476	25.0000	26
	78 1,1-Dichloro-2-propanone	43	6.162	6.157	(0.838)	980038	250.000	280
	79 4-Methyl-2-Pentanone	43	6.320	6.325	(0.859)	371145	50.0000	58
	80 Tetrachloroethene	164	6.290	6.295	(0.855)	257749	50.0000	53
	81 Ethyl Methacrylate	69	6.546	6.551	(0.890)	346922	50.0000	54
	82 Dibromochloromethane	129	6.655	6.660	(0.905)	275225	50.0000	51
	83 1,3-Dichloropropane	76	6.753	6.749	(0.918)	389431	50.0000	52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
	84 1,2-Dibromoethane	107	6.862	6.857	(0.933)	213160	50.0000	53
	86 2-Hexanone	43	7.138	7.143	(0.971)	301620	50.0000	59
	87 1-Chlorohexane	91	7.404	7.399	(1.007)	696161	50.0000	63(M)
	88 Chlorobenzene	112	7.365	7.370	(1.001)	665008	50.0000	53
	89 1,1,1,2-Tetrachloroethane	131	7.444	7.449	(1.012)	257583	50.0000	52
	90 Ethylbenzene	106	7.414	7.419	(1.008)	362087	50.0000	53(H)
	91 Xylene (total)mp	106	7.562	7.557	(1.028)	900202	100.000	110
	92 Xylene (total)o	106	7.936	7.942	(1.079)	427436	50.0000	54
	93 Styrene	104	7.986	7.991	(1.086)	681992	50.0000	53
	94 Bromoform	173	7.996	7.991	(1.087)	181652	50.0000	51
*	95 1,4-Dichlorobenzene-d4	152	9.445	9.440	(1.000)	116452	25.0000	
	96 Isopropylbenzene	105	8.232	8.237	(0.872)	1166025	50.0000	49
	97 Bromobenzene	156	8.538	8.543	(0.904)	299755	50.0000	50
	98 1,1,2,2-Tetrachloroethane	83	8.666	8.671	(0.918)	263512	50.0000	51
	99 4-Ethyltoluene	105	8.705	8.701	(0.922)	1151449	50.0000	48(H)
	100 1,2,3-Trichloropropane	110	8.765	8.770	(0.928)	69608	50.0000	49
	101 trans-1,4-Dichloro-2-Butene	53	8.824	8.819	(0.934)	199606	100.000	97
	102 n-Propylbenzene	91	8.597	8.602	(0.910)	1527504	50.0000	48(H)
	103 2-Chlorotoluene	91	8.715	8.720	(0.923)	1003841	50.0000	48(H)
	104 4-Chlorotoluene	91	8.863	8.868	(0.938)	906061	50.0000	48
	105 1,3,5-Trimethylbenzene	105	8.784	8.789	(0.930)	976960	50.0000	49
	106 tert-Butylbenzene	119	9.050	9.056	(0.958)	837286	50.0000	49
	107 1,2,4-Trimethylbenzene	105	9.119	9.115	(0.966)	939101	50.0000	49
	108 sec-Butylbenzene	105	9.208	9.213	(0.975)	1280207	50.0000	50
	109 4-Isopropyltoluene	119	9.346	9.341	(0.990)	1018306	50.0000	49
	110 1,3-Dichlorobenzene	146	9.376	9.381	(0.993)	508853	50.0000	49
	111 1,4-Dichlorobenzene	146	9.455	9.460	(1.001)	497477	50.0000	48
	112 1,2-Dichlorobenzene	146	9.819	9.815	(1.040)	449202	50.0000	49
	113 Benzyl Chloride	126	9.681	9.687	(1.025)	81613	50.0000	47
	114 1,4-Diethylbenzene	119	9.662	9.667	(1.023)	503806	50.0000	48
	115 n-Butylbenzene	91	9.711	9.706	(1.028)	1104800	50.0000	48
	118 1,2,4,5-Tetramethylbenzene	119	10.362	10.367	(1.097)	819502	50.0000	49
	119 1,2-Dibromo-3-chloropropane	75	10.510	10.515	(1.113)	50540	50.0000	52
	120 Nitrobenzene	77	11.002	11.008	(1.165)	96949	500.000	500
	121 1,2,4-Trichlorobenzene	180	11.111	11.116	(1.176)	285798	50.0000	37
	122 Hexachlorobutadiene	225	11.101	11.106	(1.175)	267643	50.0000	52
	123 Naphthalene	128	11.387	11.392	(1.206)	464417	50.0000	27
	124 1,2,3-Trichlorobenzene	180	11.555	11.560	(1.223)	239789	50.0000	33
$	125 Bromofluorobenzene	95	8.459	8.464	(0.896)	179317	25.0000	24
M	126 1,2-Dichloroethene (total)	100				557357	100.000	100
M	127 Xylene (total)	100				1327638	150.000	160

QC Flag Legend

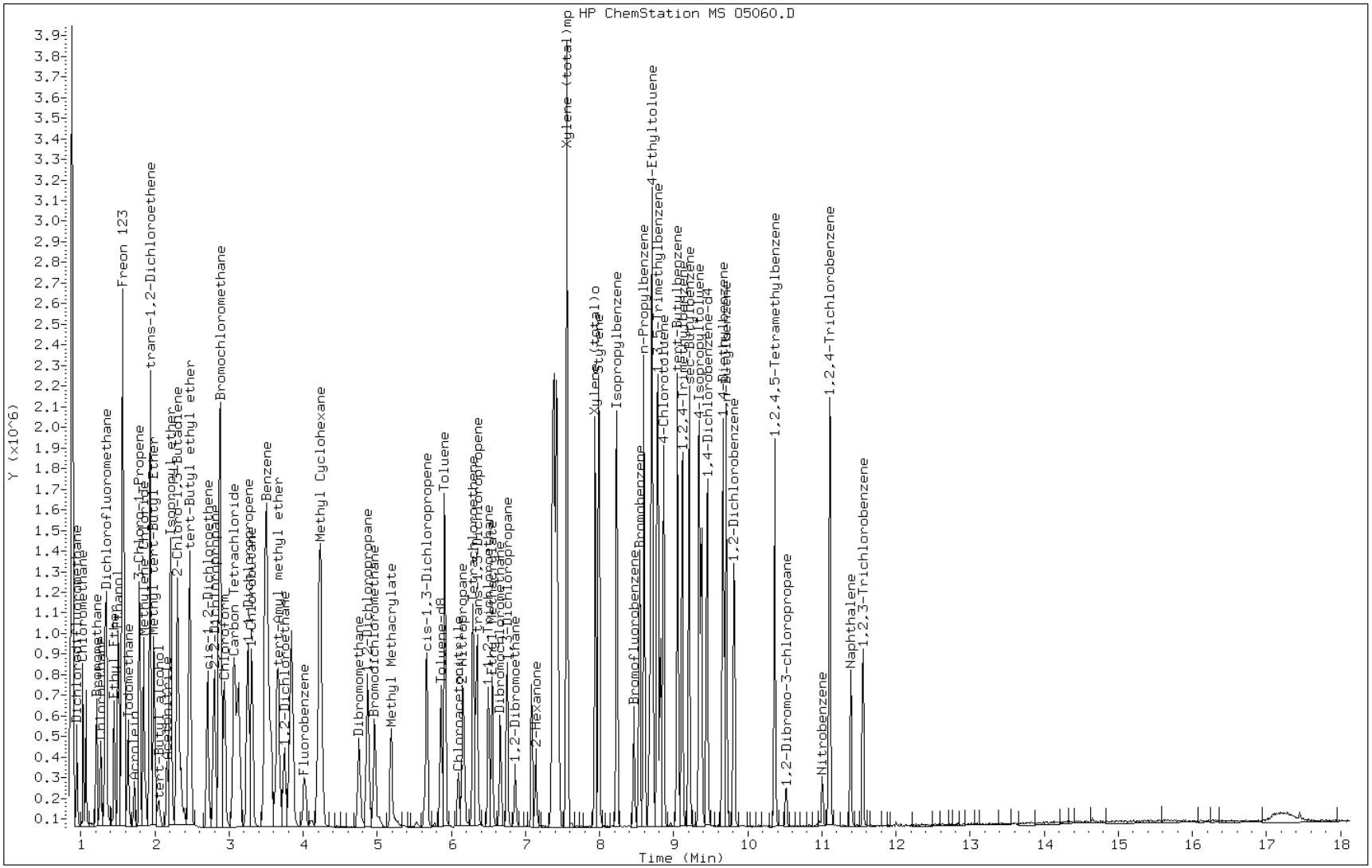
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: O5060.D

Date: 23-DEC-2009 12:36

Client ID: IC;50 Instrument: mso.i

Sample Info: IC;50 Operator: D. HUMBERT



Manual Integration Report

Data File: O5060.D
Inj. Date and Time: 23-DEC-2009 12:36
Instrument ID: mso.i
Client ID: IC;50
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/24/2009

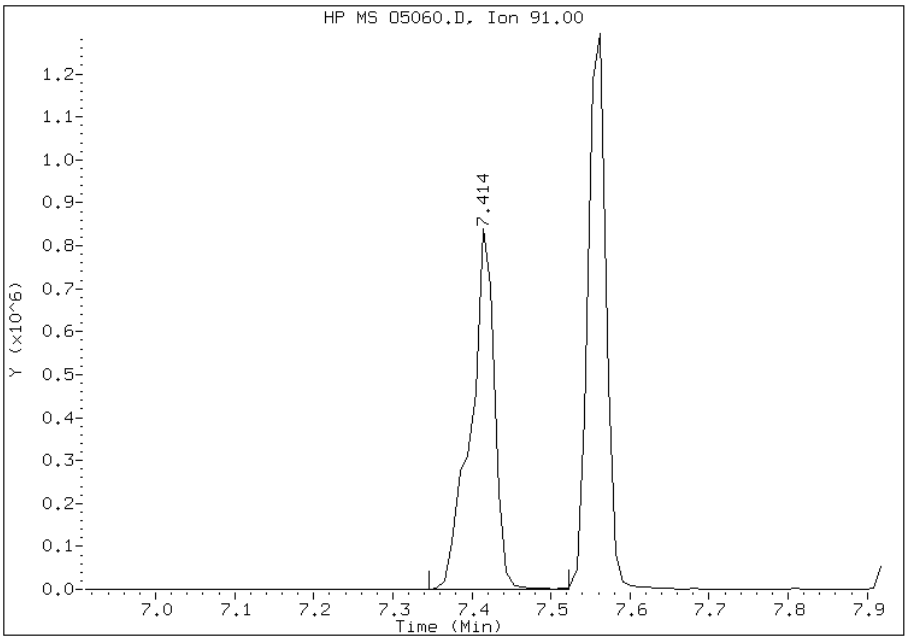
Processing Integration Results

RT: 7.41

Response: 1783814

Amount: 116

Conc: 116



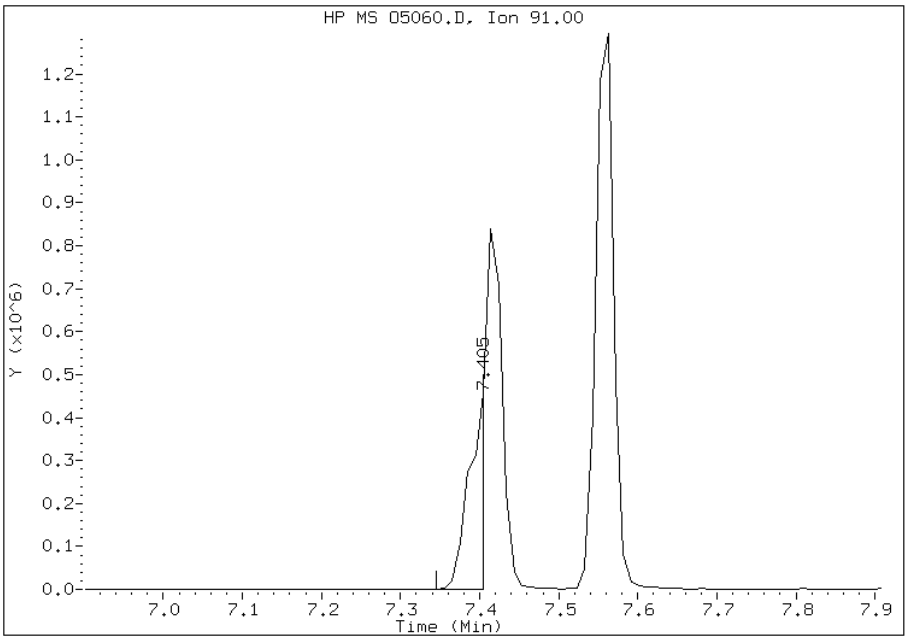
Manual Integration Results

RT: 7.40

Response: 696161

Amount: 63

Conc: 63



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5060.D
Inj. Date and Time: 23-DEC-2009 12:36
Instrument ID: mso.i
Client ID: IC;50
Compound: 67 1,4-Dioxane
CAS #: 123-91-1
Report Date: 12/24/2009

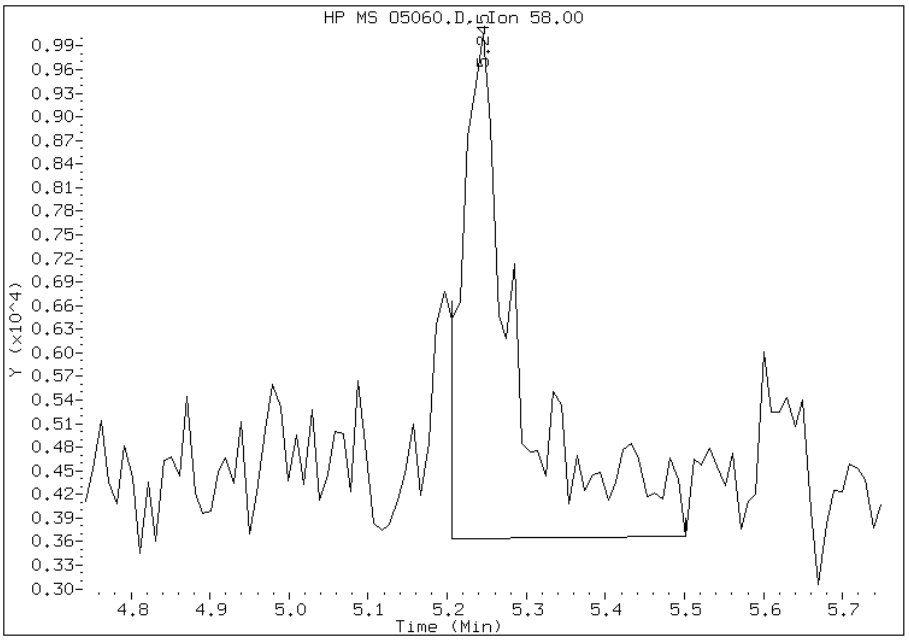
Processing Integration Results

RT: 5.25

Response: 33319

Amount: 698

Conc: 698



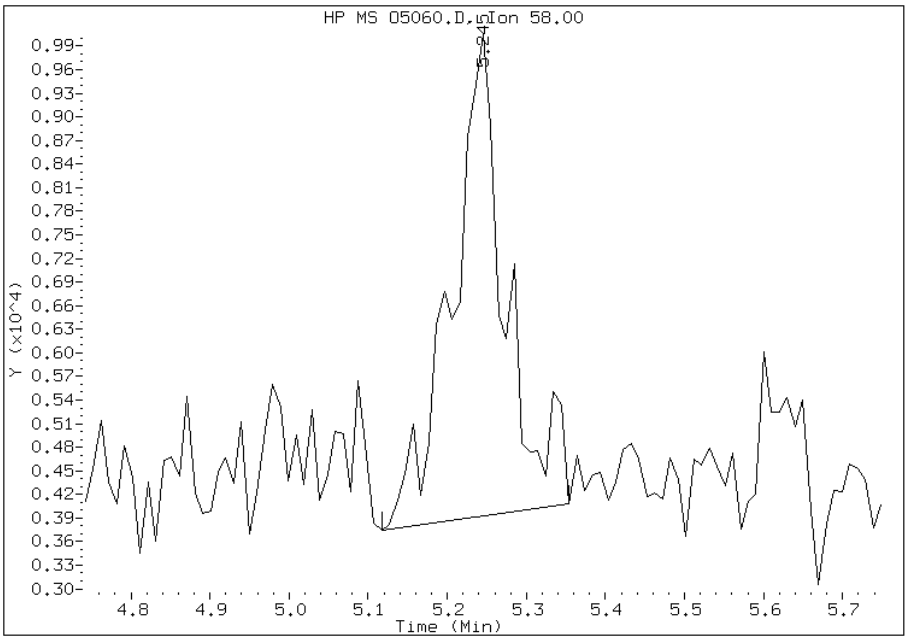
Manual Integration Results

RT: 5.25

Response: 29162

Amount: 639

Conc: 639



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5060.D
Inj. Date and Time: 23-DEC-2009 12:36
Instrument ID: mso.i
Client ID: IC;50
Compound: 53 2-Methyl-2-Propenenitrile
CAS #: 126-98-7
Report Date: 12/24/2009

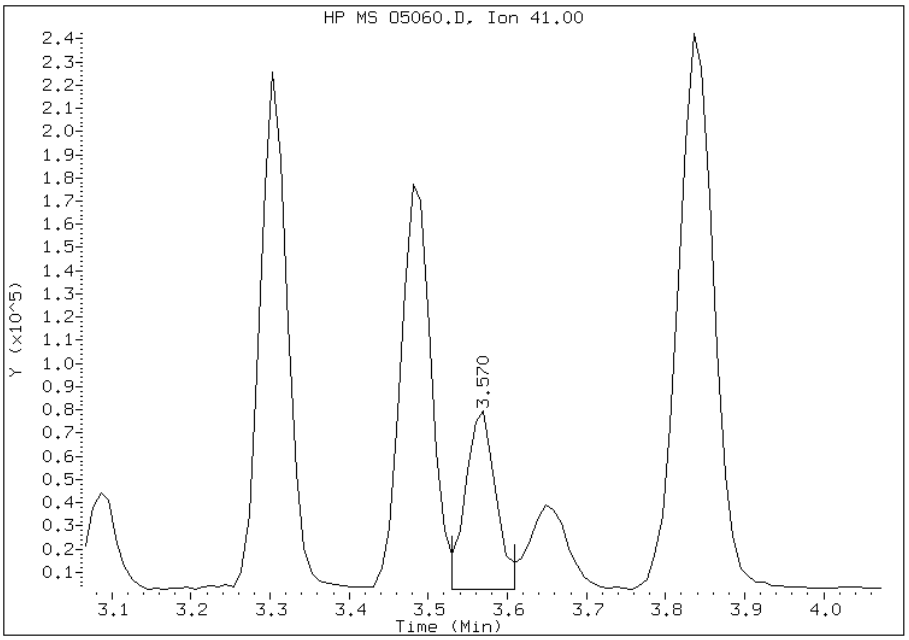
Processing Integration Results

RT: 3.57

Response: 210252

Amount: 56

Conc: 56



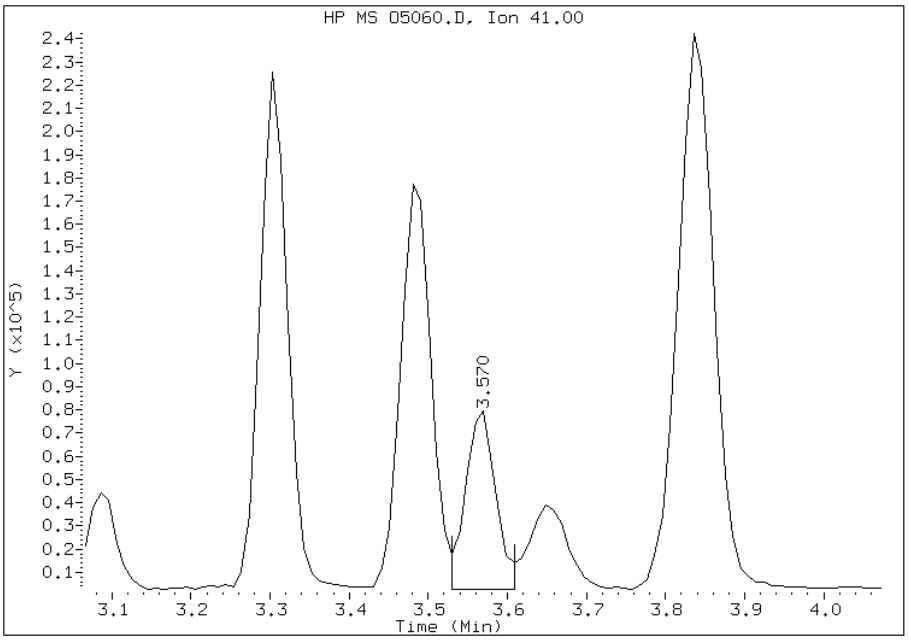
Manual Integration Results

RT: 3.57

Response: 210252

Amount: 56

Conc: 56



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5060.D
Inj. Date and Time: 23-DEC-2009 12:36
Instrument ID: mso.i
Client ID: IC;50
Compound: 39 Ethyl Acetate
CAS #: 141-78-6
Report Date: 12/24/2009

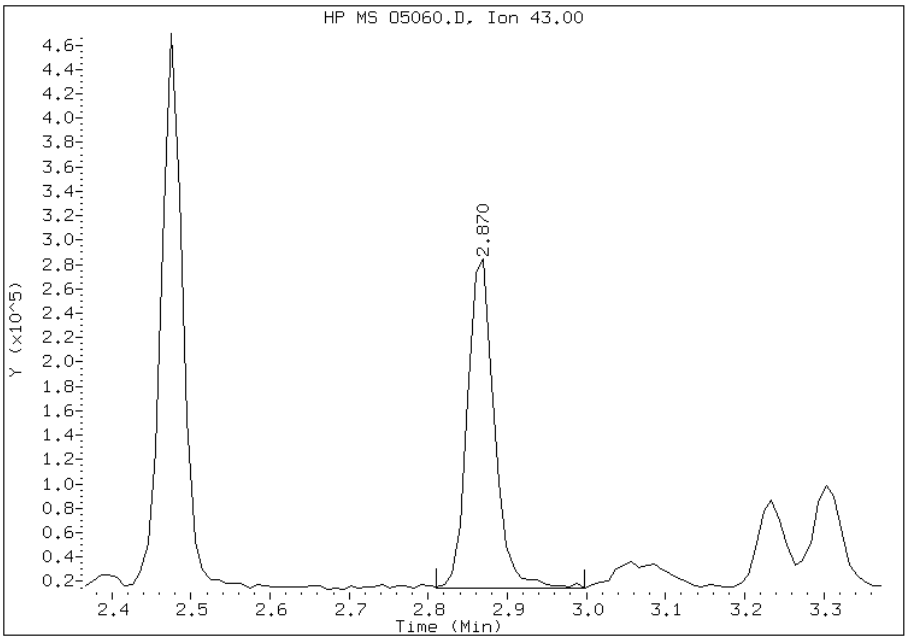
Processing Integration Results

RT: 2.87

Response: 651866

Amount: 118

Conc: 118



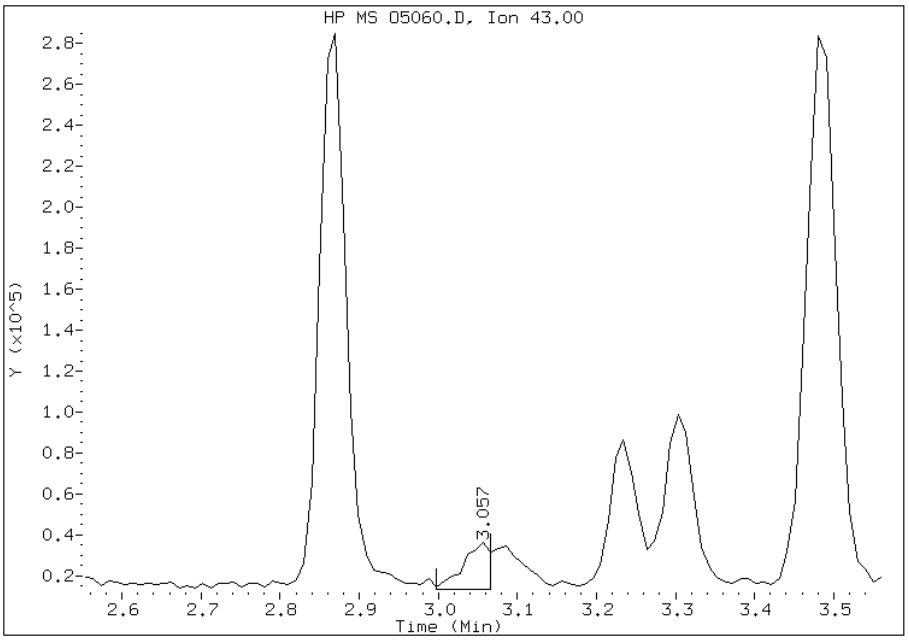
Manual Integration Results

RT: 3.06

Response: 56580

Amount: 151

Conc: 151



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O5062.D
Lab Smp Id: IC;5 Client Smp ID: IC;5
Inj Date : 23-DEC-2009 13:26 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : IC;5
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O8260BNS.m
Meth Date : 23-Dec-2009 17:16 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 68 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
* 1	Fluorobenzene	96	4.023	4.023	(1.000)	251124	25.0000	
2	Dichlorodifluoromethane	85	0.937	0.937	(0.233)	21082	5.00000	4
3	Chloromethane	50	1.026	1.026	(0.255)	40146	5.00000	5
4	Vinyl Chloride	62	1.065	1.065	(0.265)	31848	5.00000	5
5	Bromomethane	94	1.213	1.213	(0.302)	22406	5.00000	5
6	Chloroethane	64	1.263	1.263	(0.314)	18041	5.00000	5
7	Trichlorofluoromethane	101	1.322	1.322	(0.329)	42090	5.00000	5
8	Dichlorofluoromethane	67	1.342	1.342	(0.334)	70098	5.00000	6
9	Ethyl Ether	45	1.450	1.450	(0.360)	17763	5.00000	6
10	Ethanol	45	1.499	1.499	(0.373)	17115	50.0000	50(M)
12	Freon 123	67	1.558	1.558	(0.387)	7928	5.00000	4
13	Trichlorotrifluoroethane	101	1.568	1.568	(0.390)	22962	5.00000	4
14	1,1-Dichloroethene	96	1.558	1.558	(0.387)	20299	5.00000	5
15	Carbon Disulfide	76	1.578	1.578	(0.392)	87698	5.00000	5
16	Iodomethane	142	1.637	1.637	(0.407)	31642	5.00000	4
17	Acrolein	56	1.716	1.716	(0.427)	15659	25.0000	31
18	2-Propanol	45	1.815	1.815	(0.451)	5748	5.00000	6(M)
19	3-Chloro-1-Propene	41	1.785	1.785	(0.444)	57239	5.00000	5
20	Methylene Chloride	84	1.844	1.844	(0.459)	29828	5.00000	6
21	Acetone	43	1.874	1.874	(0.466)	13489	5.00000	5(M)
22	trans-1,2-Dichloroethene	96	1.933	1.933	(0.481)	23735	5.00000	5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
	23 Methyl Acetate	43	1.933	1.933	(0.481)	118698	5.00000	5
	24 Methyl tert-Butyl Ether	73	1.982	1.982	(0.493)	67983	5.00000	5
	25 tert-Butyl alcohol	59	2.041	2.041	(0.508)	21420	25.0000	29(M)
	26 Acetonitrile	41	2.150	2.150	(0.534)	30844	50.0000	51(H)
	27 Isopropyl ether	45	2.209	2.209	(0.549)	122211	5.00000	5
	28 tert-Butyl ethyl ether	59	2.465	2.465	(0.613)	94276	5.00000	5
	29 2-Chloro-1,3-Butadiene	88	2.298	2.298	(0.571)	19791	5.00000	5
	30 Acrylonitrile	53	2.357	2.357	(0.586)	21143	10.0000	12
	31 1,1-Dichloroethane	63	2.308	2.308	(0.574)	54765	5.00000	5
	32 Vinyl Acetate	43	2.485	2.485	(0.618)	59155	5.00000	6(M)
	33 cis-1,2-Dichloroethene	96	2.712	2.712	(0.674)	26198	5.00000	5
	34 2,2-Dichloropropane	77	2.801	2.801	(0.696)	48767	5.00000	5
	35 Bromochloromethane	128	2.879	2.879	(0.716)	12223	5.00000	5
	37 Cyclohexane	84	2.879	2.879	(0.716)	47944	5.00000	6
	38 Chloroform	83	2.939	2.939	(0.730)	55388	5.00000	5
	39 Ethyl Acetate	43	3.037	3.037	(0.755)	3514	10.0000	10(MH)
	40 Methyl Acrylate	55	3.057	3.057	(0.760)	21591	5.00000	5(H)
$	41 Dibromofluoromethane	111	3.106	3.106	(0.772)	25289	5.00000	5
	42 Tetrahydrofuran	42	3.087	3.087	(0.767)	20673	10.0000	11
	43 Carbon Tetrachloride	117	3.067	3.067	(0.762)	38658	5.00000	5
	44 1,1,1-Trichloroethane	97	3.136	3.136	(0.779)	42062	5.00000	5
	45 2-Butanone	43	3.234	3.234	(0.804)	13865	5.00000	5
	46 1,1-Dichloropropene	75	3.254	3.254	(0.809)	40278	5.00000	5
	47 tert-Amyl methyl ether	73	3.658	3.658	(0.909)	74346	5.00000	5
	49 1-Chlorobutane	56	3.303	3.303	(0.821)	70675	5.00000	5
	50 Heptane	43	3.481	3.481	(0.865)	64477	5.00000	5(M)
	51 Propionitrile	54	3.550	3.550	(0.882)	33518	50.0000	52
	52 Benzene	78	3.510	3.510	(0.873)	98111	5.00000	5
	53 2-Methyl-2-Propenenitrile	41	3.579	3.579	(0.890)	14604	5.00000	4(M)
	54 Isobutyl alcohol	42	3.648	3.648	(0.907)	7464	50.0000	59(H)
$	55 1,2-Dichloroethane-d4	65	3.668	3.668	(0.912)	28615	5.00000	5
	56 1,2-Dichloroethane	62	3.747	3.747	(0.931)	37553	5.00000	5
	59 Methyl Cyclohexane	83	4.220	4.220	(1.049)	47394	5.00000	5
	60 Trichloroethene	130	4.240	4.240	(1.054)	24055	5.00000	5
	63 Dibromomethane	93	4.753	4.753	(1.181)	14743	5.00000	5
	64 1,2-Dichloropropane	63	4.871	4.871	(1.211)	27448	5.00000	5(T)
	65 Bromodichloromethane	83	4.970	4.970	(1.235)	40503	5.00000	5
	66 Methyl Methacrylate	69	5.186	5.186	(1.289)	17559	5.00000	5
	69 2-Chloroethylvinylether	63	5.640	5.640	(1.402)	9963	5.00000	8
	70 cis-1,3-Dichloropropene	75	5.669	5.669	(1.409)	41539	5.00000	5
	71 Chloroacetonitrile	48	6.103	6.103	(1.517)	9758	50.0000	51
	72 2-Nitropropane	41	6.153	6.153	(1.529)	17163	10.0000	10(M)
	73 trans-1,3-Dichloropropene	75	6.350	6.350	(1.578)	38406	5.00000	5
	74 1,1,2-Trichloroethane	97	6.498	6.498	(1.615)	16903	5.00000	5
*	75 Chlorobenzene-d5	117	7.355	7.355	(1.000)	211949	25.0000	
	76 Toluene	91	5.916	5.916	(0.804)	115383	5.00000	5
$	77 Toluene-d8	98	5.857	5.857	(0.796)	80984	5.00000	5
	78 1,1-Dichloro-2-propanone	43	6.162	6.162	(0.838)	76499	25.0000	22(M)
	79 4-Methyl-2-Pentanone	43	6.330	6.330	(0.861)	34577	5.00000	5(M)
	80 Tetrachloroethene	164	6.291	6.291	(0.855)	23066	5.00000	5
	81 Ethyl Methacrylate	69	6.557	6.557	(0.891)	33922	5.00000	5
	82 Dibromochloromethane	129	6.655	6.655	(0.905)	24489	5.00000	5(T)
	83 1,3-Dichloropropane	76	6.754	6.754	(0.918)	35994	5.00000	5
	84 1,2-Dibromoethane	107	6.862	6.862	(0.933)	18017	5.00000	4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
86	2-Hexanone	43	7.148	7.148	(0.972)	29013	5.00000	5(MH)
87	1-Chlorohexane	91	7.405	7.405	(1.007)	64320	5.00000	5(M)
88	Chlorobenzene	112	7.365	7.365	(1.001)	64656	5.00000	5
89	1,1,1,2-Tetrachloroethane	131	7.444	7.444	(1.012)	22785	5.00000	5
90	Ethylbenzene	106	7.414	7.414	(1.008)	34653	5.00000	5(H)
91	Xylene (total)mp	106	7.562	7.562	(1.028)	84997	10.0000	10
92	Xylene (total)o	106	7.937	7.937	(1.079)	39448	5.00000	5
93	Styrene	104	7.996	7.996	(1.087)	62035	5.00000	5
94	Bromoform	173	7.996	7.996	(1.087)	16978	5.00000	5
* 95	1,4-Dichlorobenzene-d4	152	9.445	9.445	(1.000)	104672	25.0000	
96	Isopropylbenzene	105	8.233	8.233	(0.872)	110575	5.00000	5
97	Bromobenzene	156	8.538	8.538	(0.904)	27591	5.00000	5
98	1,1,2,2-Tetrachloroethane	83	8.676	8.676	(0.919)	25914	5.00000	5
99	4-Ethyltoluene	105	8.706	8.706	(0.922)	109578	5.00000	5(H)
100	1,2,3-Trichloropropane	110	8.775	8.775	(0.929)	6799	5.00000	5
101	trans-1,4-Dichloro-2-Butene	53	8.824	8.824	(0.934)	17039	10.0000	10
102	n-Propylbenzene	91	8.598	8.598	(0.910)	142584	5.00000	5(H)
103	2-Chlorotoluene	91	8.716	8.716	(0.923)	100031	5.00000	5(H)
104	4-Chlorotoluene	91	8.864	8.864	(0.938)	84069	5.00000	5
105	1,3,5-Trimethylbenzene	105	8.785	8.785	(0.930)	91298	5.00000	5
106	tert-Butylbenzene	119	9.051	9.051	(0.958)	77797	5.00000	5
107	1,2,4-Trimethylbenzene	105	9.120	9.120	(0.966)	88755	5.00000	5
108	sec-Butylbenzene	105	9.209	9.209	(0.975)	119263	5.00000	5
109	4-Isopropyltoluene	119	9.347	9.347	(0.990)	92925	5.00000	5
110	1,3-Dichlorobenzene	146	9.376	9.376	(0.993)	48090	5.00000	5
111	1,4-Dichlorobenzene	146	9.455	9.455	(1.001)	46983	5.00000	5
112	1,2-Dichlorobenzene	146	9.820	9.820	(1.040)	41629	5.00000	5
113	Benzyl Chloride	126	9.682	9.682	(1.025)	6039	5.00000	4
114	1,4-Diethylbenzene	119	9.662	9.662	(1.023)	42645	5.00000	5
115	n-Butylbenzene	91	9.712	9.712	(1.028)	100082	5.00000	5(M)
118	1,2,4,5-Tetramethylbenzene	119	10.362	10.362	(1.097)	57124	5.00000	4
119	1,2-Dibromo-3-chloropropane	75	10.520	10.520	(1.114)	3435	5.00000	4
120	Nitrobenzene	77	11.013	11.013	(1.166)	4345	50.0000	120(M)
121	1,2,4-Trichlorobenzene	180	11.111	11.111	(1.176)	15358	5.00000	5
122	Hexachlorobutadiene	225	11.102	11.102	(1.175)	21700	5.00000	5
123	Naphthalene	128	11.397	11.397	(1.207)	27530	5.00000	3
124	1,2,3-Trichlorobenzene	180	11.555	11.555	(1.223)	13295	5.00000	4
$ 125	Bromofluorobenzene	95	8.469	8.469	(0.897)	37658	5.00000	6
M 126	1,2-Dichloroethene (total)	100				49933	10.0000	10
M 127	Xylene (total)	100				124445	15.0000	15

QC Flag Legend

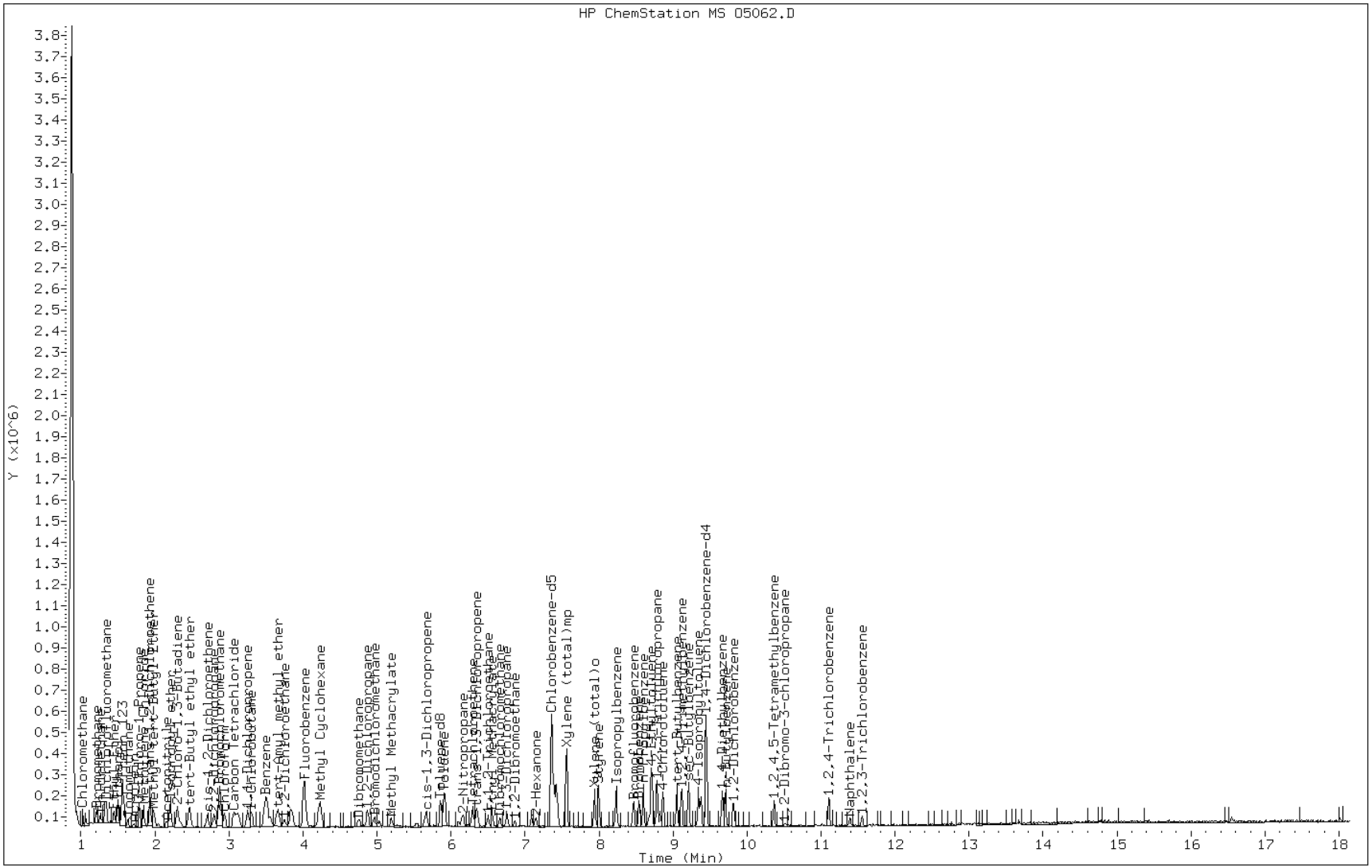
T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: O5062.D

Date: 23-DEC-2009 13:26

Client ID: IC;5 Instrument: mso.i

Sample Info: IC;5 Operator: D. HUMBERT



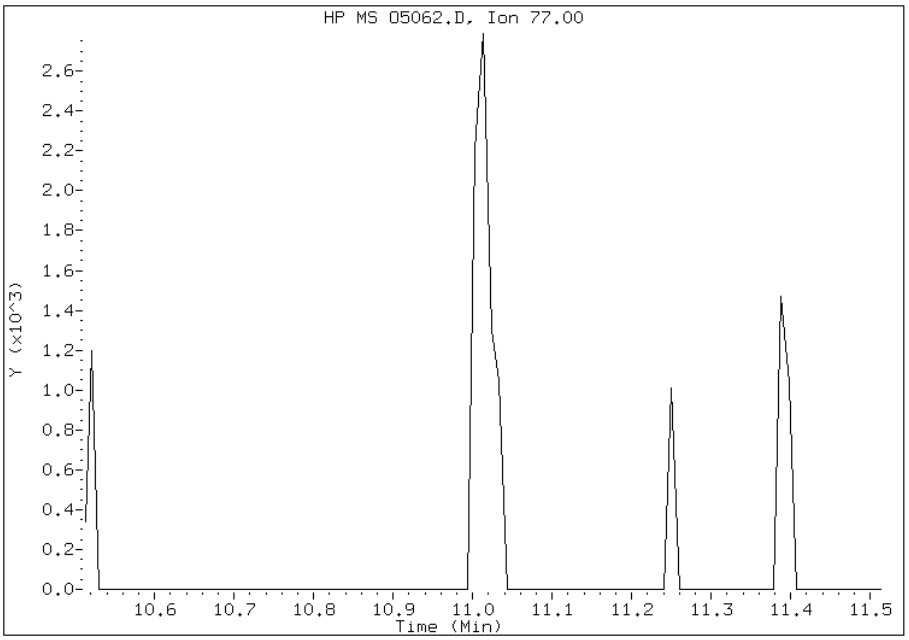
Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 120 Nitrobenzene
CAS #: 98-95-3
Report Date: 12/24/2009

Processing Integration Results

Not Detected

Expected RT: 11.01



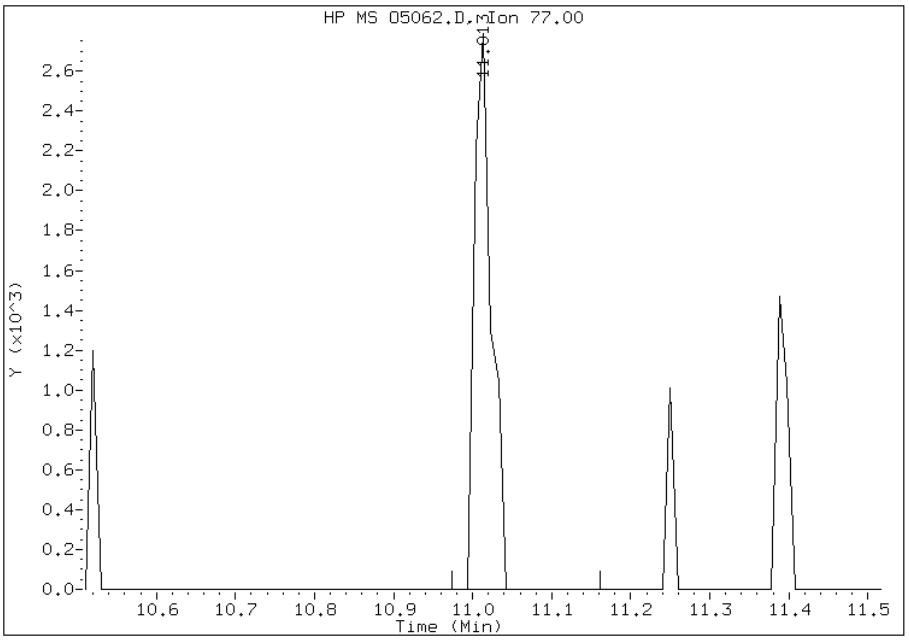
Manual Integration Results

RT: 11.01

Response: 4345

Amount: 122

Conc: 122



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 25 tert-Butyl alcohol
CAS #: 75-65-0
Report Date: 12/24/2009

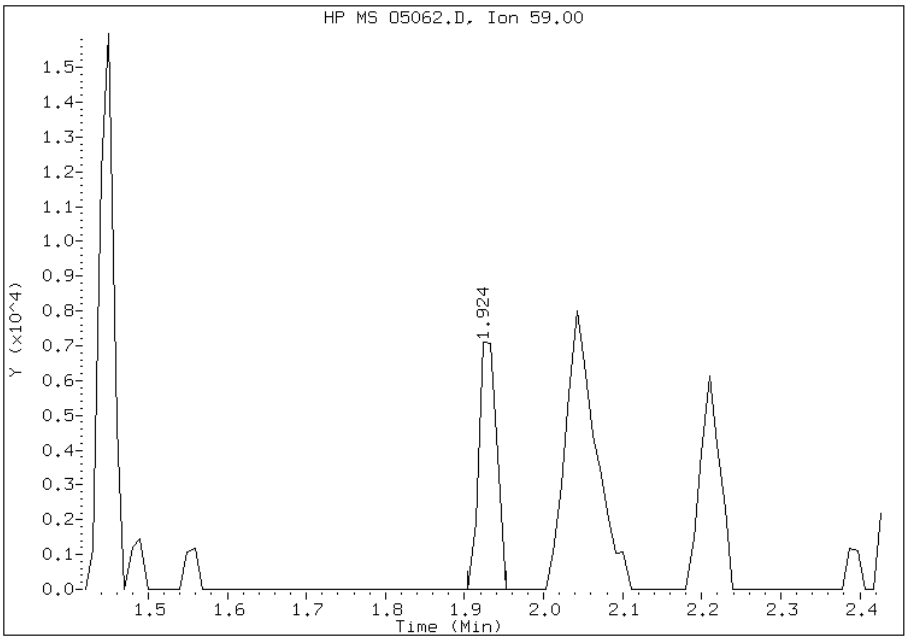
Processing Integration Results

RT: 1.92

Response: 11457

Amount: 18

Conc: 18



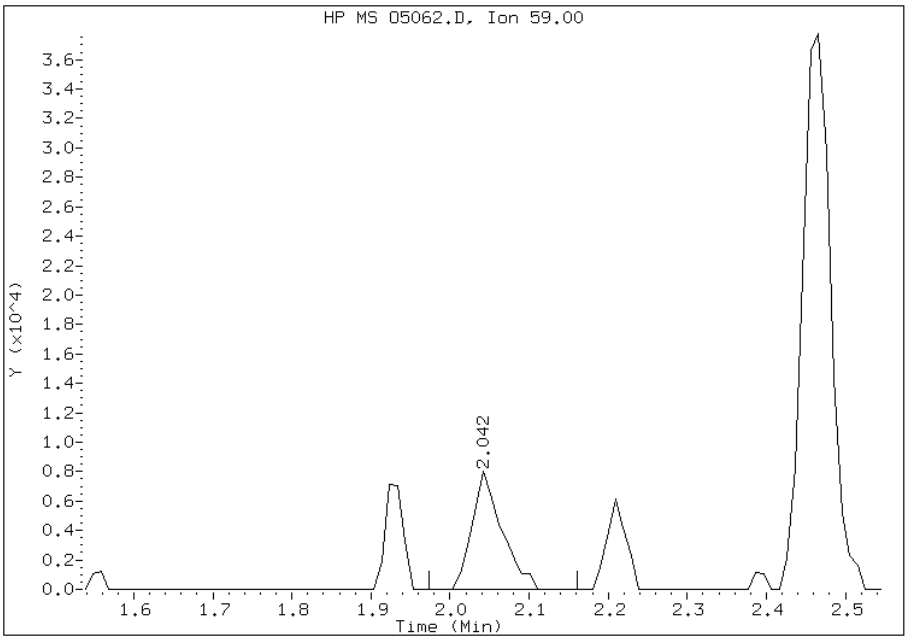
Manual Integration Results

RT: 2.04

Response: 21420

Amount: 29

Conc: 29



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 50 Heptane
CAS #: 142-82-5
Report Date: 12/24/2009

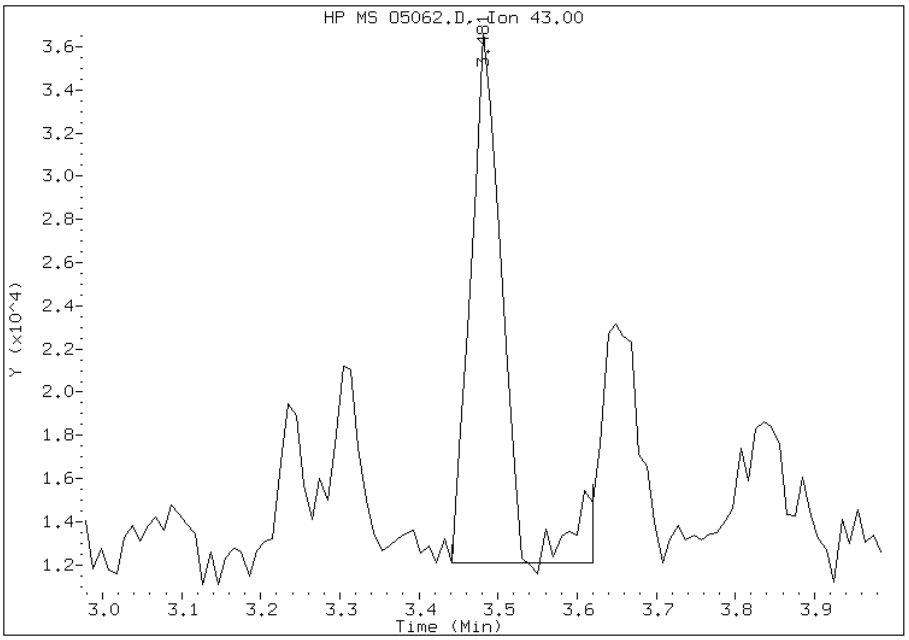
Processing Integration Results

RT: 3.48

Response: 71624

Amount: 5

Conc: 5



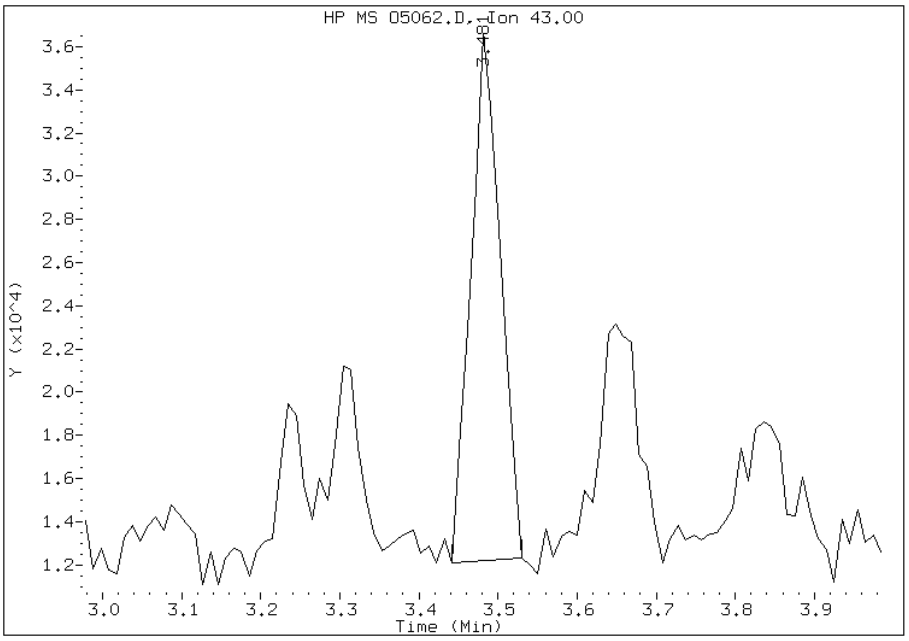
Manual Integration Results

RT: 3.48

Response: 64477

Amount: 5

Conc: 5



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 78 1,1-Dichloro-2-propanone
CAS #: 513-88-2
Report Date: 12/24/2009

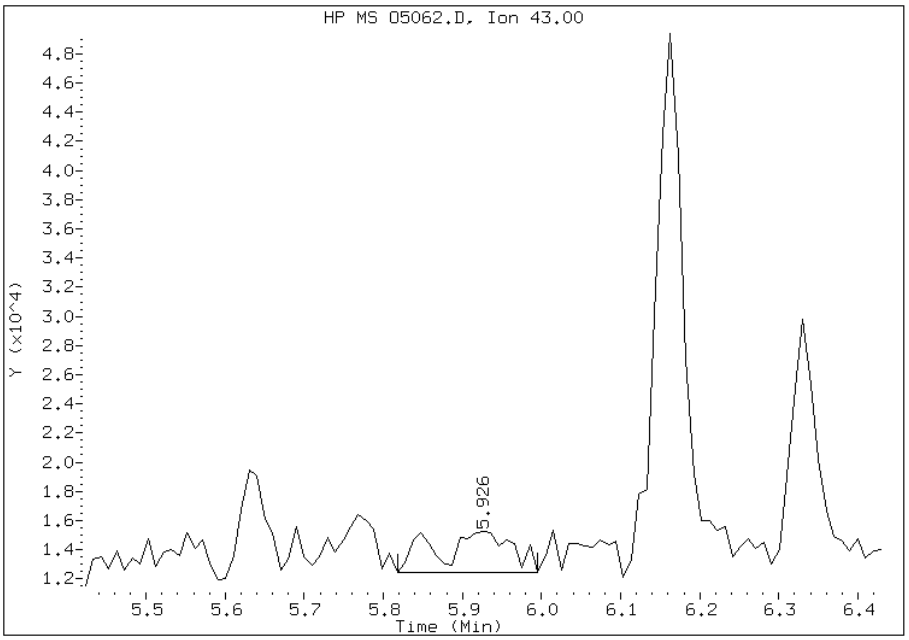
Processing Integration Results

RT: 5.93

Response: 18686

Amount: 6

Conc: 6



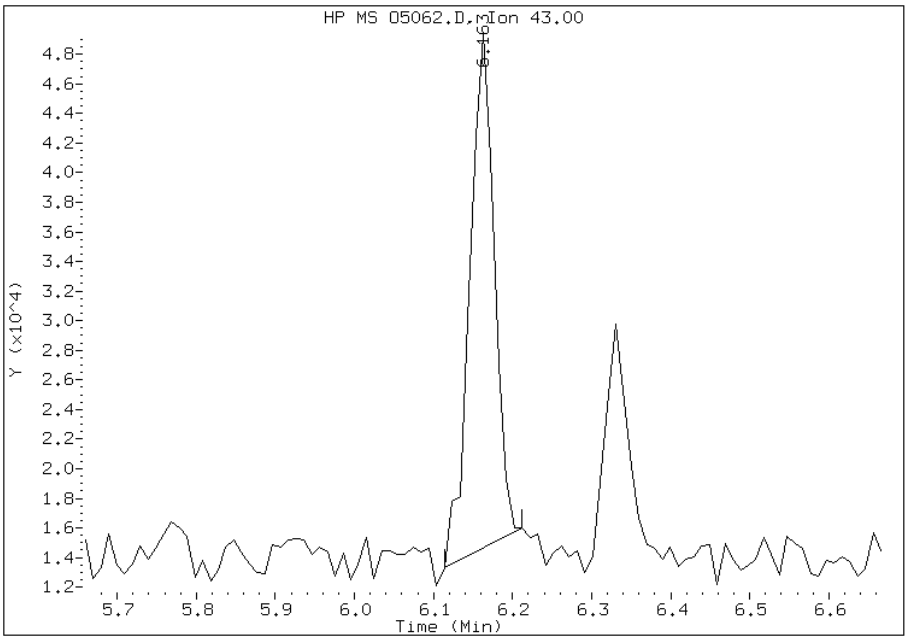
Manual Integration Results

RT: 6.16

Response: 76499

Amount: 22

Conc: 22



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 53 2-Methyl-2-Propenenitrile
CAS #: 126-98-7
Report Date: 12/24/2009

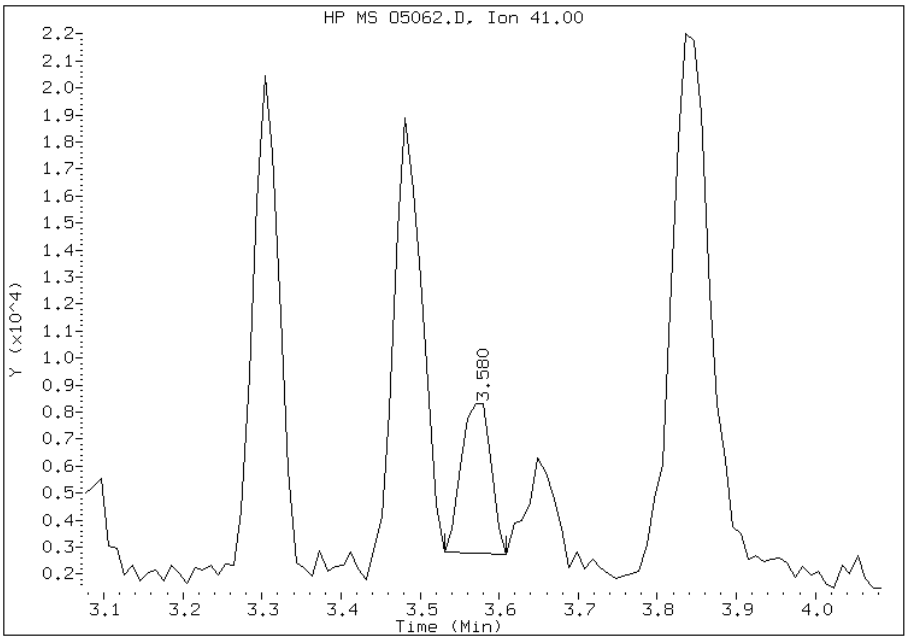
Processing Integration Results

RT: 3.58

Response: 14604

Amount: 4

Conc: 4



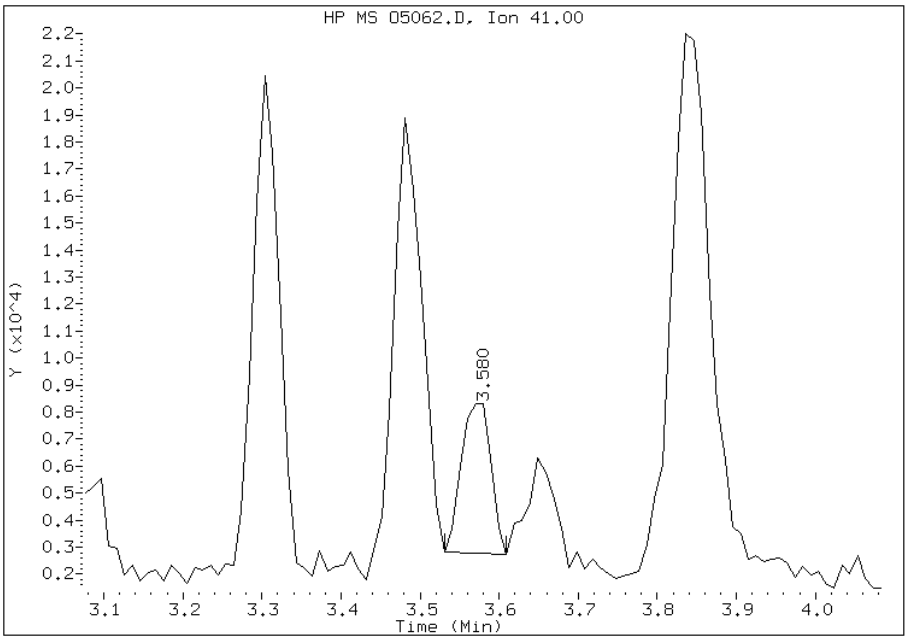
Manual Integration Results

RT: 3.58

Response: 14604

Amount: 4

Conc: 4



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 18 2-Propanol
CAS #: 67-63-0
Report Date: 12/24/2009

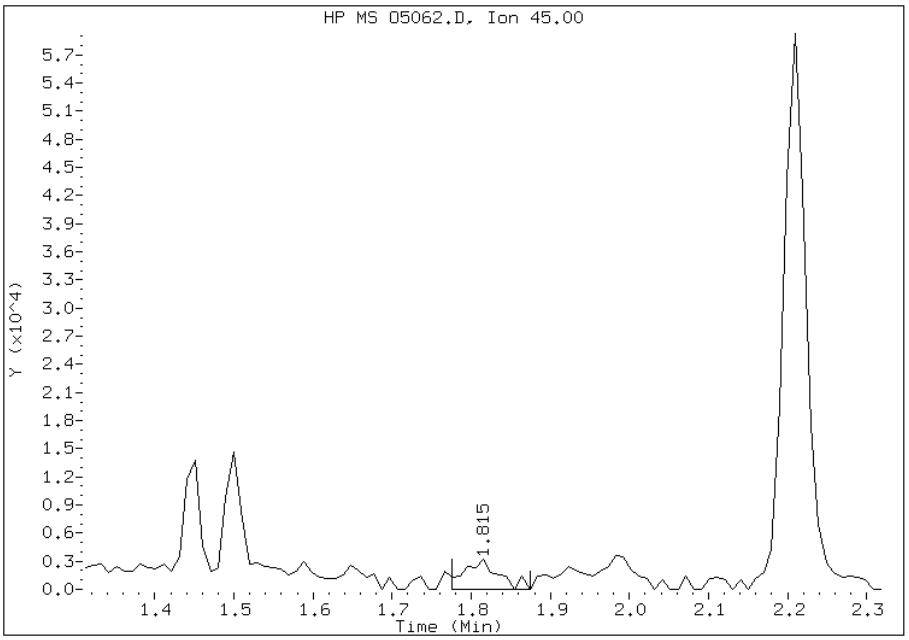
Processing Integration Results

RT: 1.82

Response: 9937

Amount: 9

Conc: 9



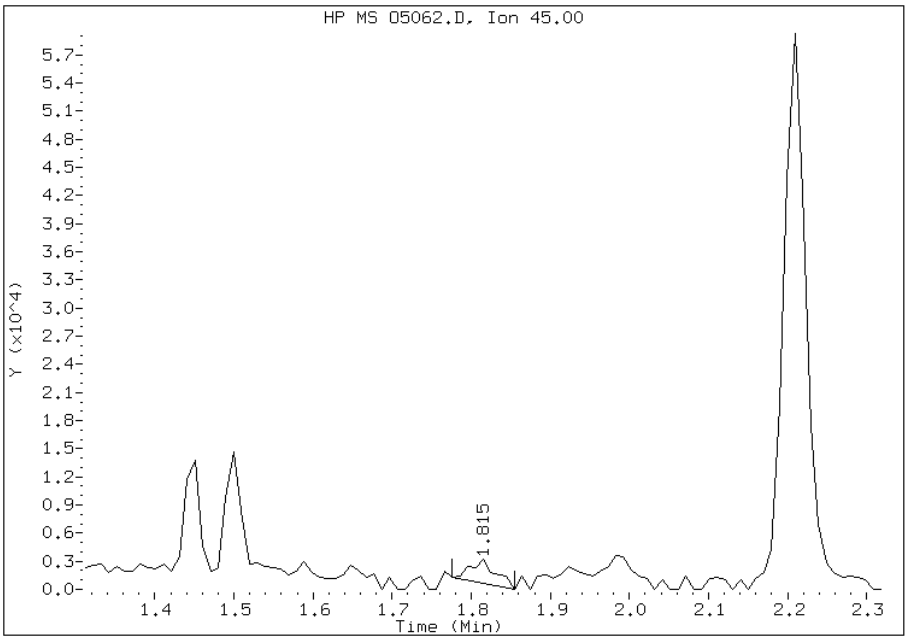
Manual Integration Results

RT: 1.82

Response: 5748

Amount: 6

Conc: 6



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 10 Ethanol
CAS #: 64-17-5
Report Date: 12/24/2009

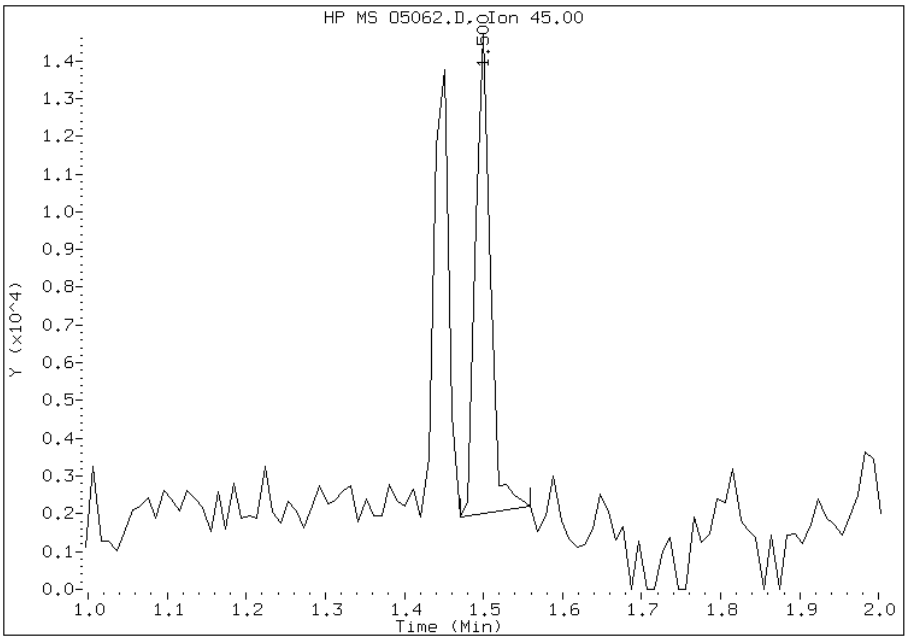
Processing Integration Results

RT: 1.50

Response: 17115

Amount: 50

Conc: 50



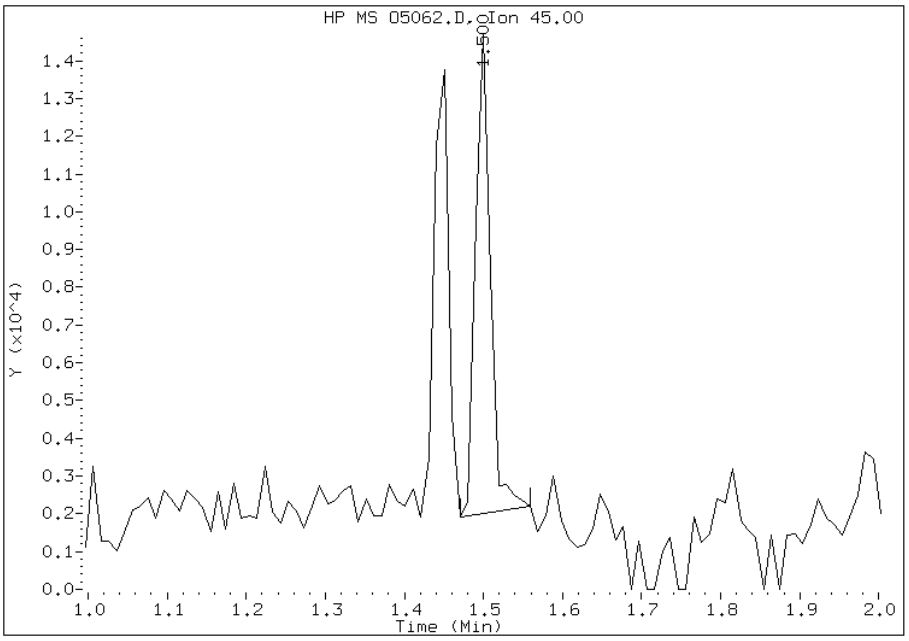
Manual Integration Results

RT: 1.50

Response: 17115

Amount: 50

Conc: 50



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 32 Vinyl Acetate
CAS #: 108-05-4
Report Date: 12/24/2009

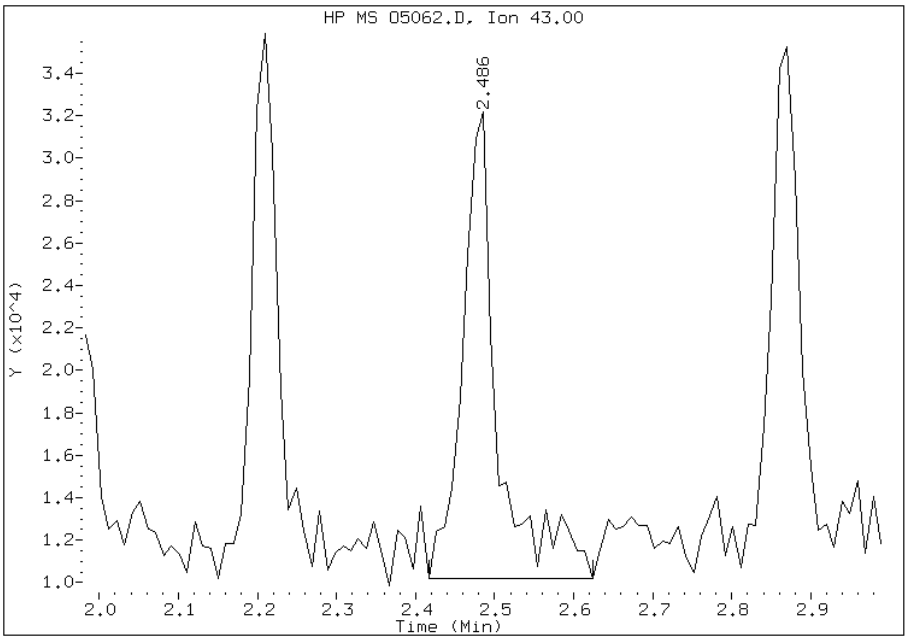
Processing Integration Results

RT: 2.49

Response: 69220

Amount: 4

Conc: 4



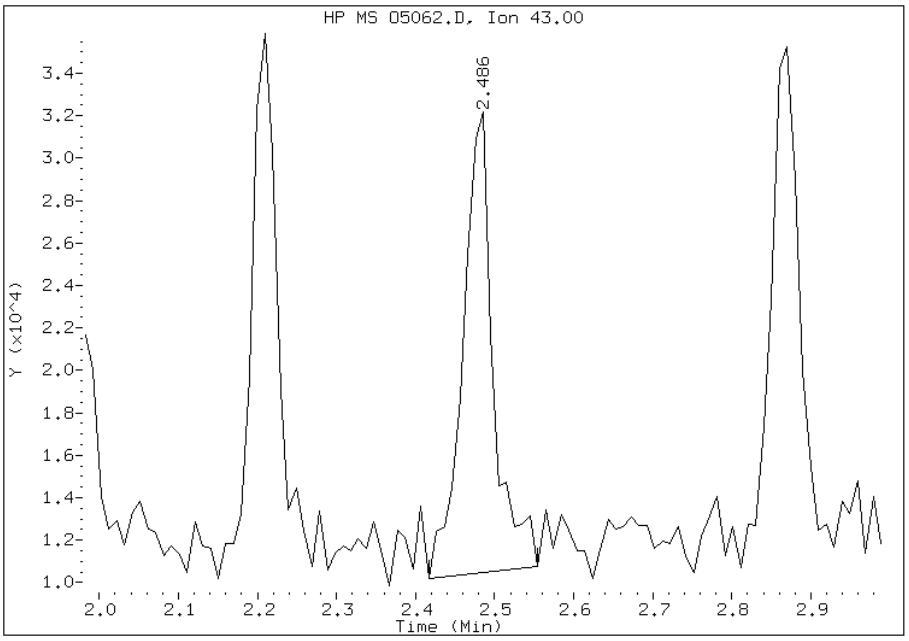
Manual Integration Results

RT: 2.49

Response: 59155

Amount: 6

Conc: 6



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

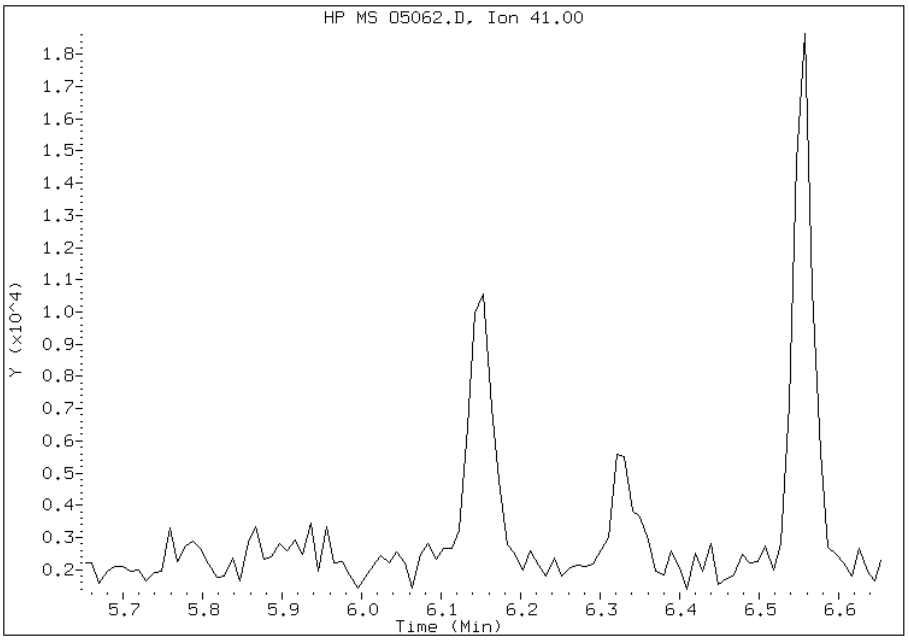
Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 72 2-Nitropropane
CAS #: 79-46-9
Report Date: 12/24/2009

Processing Integration Results

Not Detected

Expected RT: 6.15



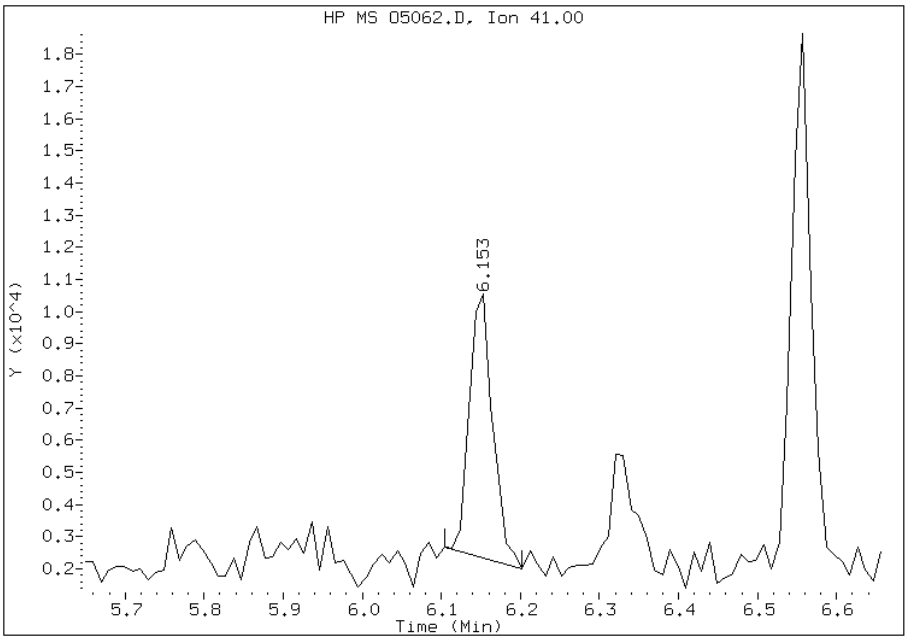
Manual Integration Results

RT: 6.15

Response: 17163

Amount: 10

Conc: 10



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 21 Acetone
CAS #: 67-64-1
Report Date: 12/24/2009

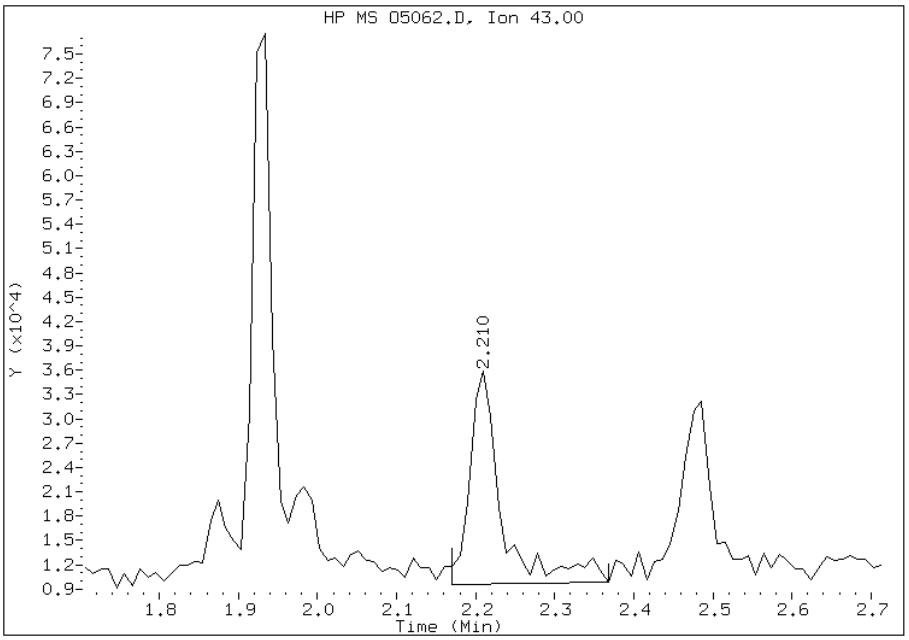
Processing Integration Results

RT: 2.21

Response: 73832

Amount: 27

Conc: 27



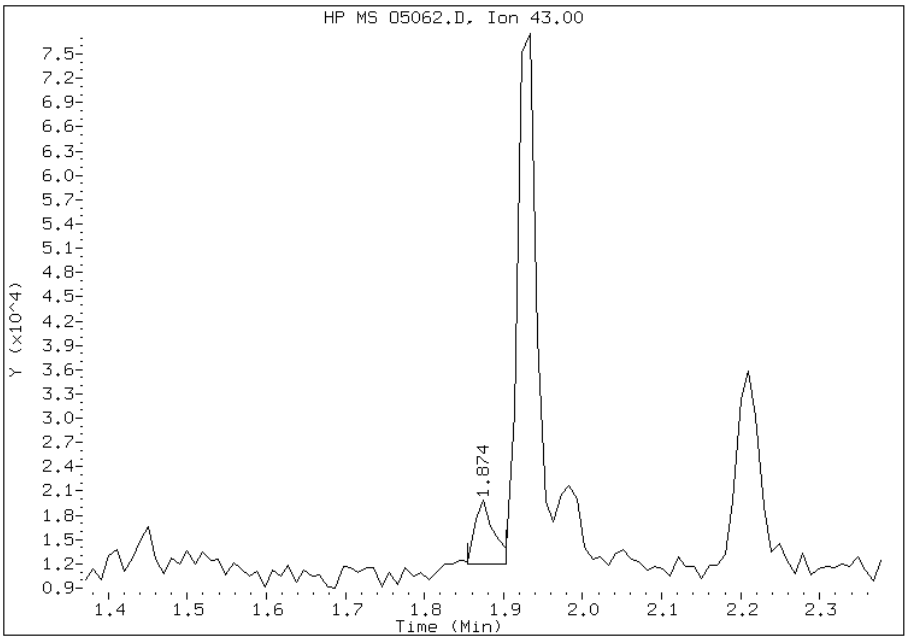
Manual Integration Results

RT: 1.87

Response: 13489

Amount: 5

Conc: 5



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 39 Ethyl Acetate
CAS #: 141-78-6
Report Date: 12/24/2009

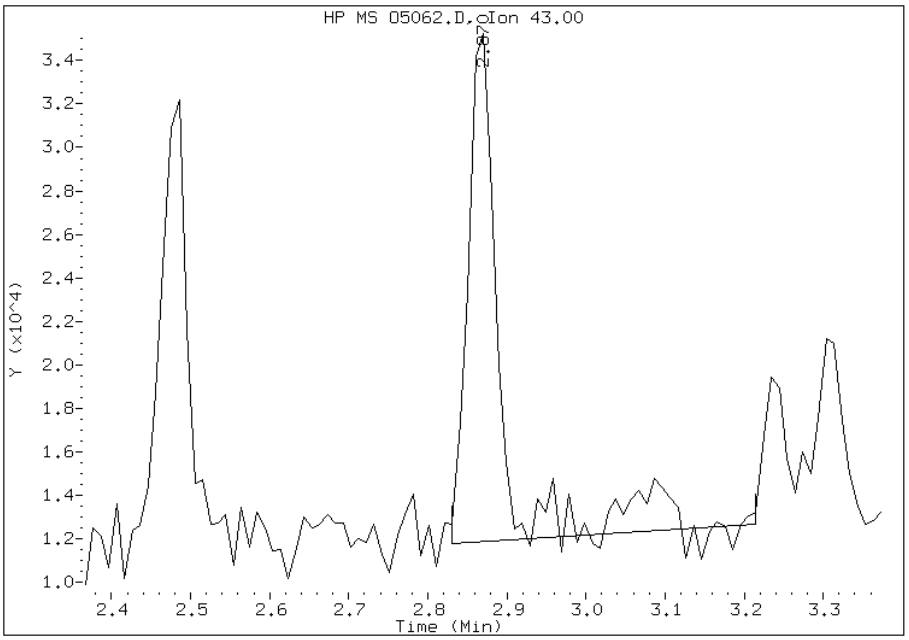
Processing Integration Results

RT: 2.87

Response: 65785

Amount: 11

Conc: 11



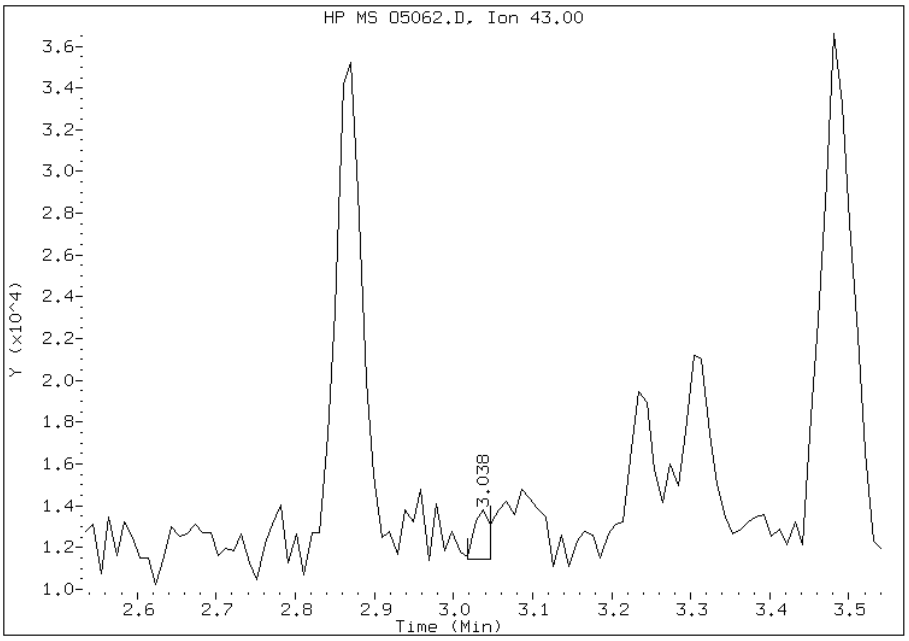
Manual Integration Results

RT: 3.04

Response: 3514

Amount: 10

Conc: 10



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/24/2009

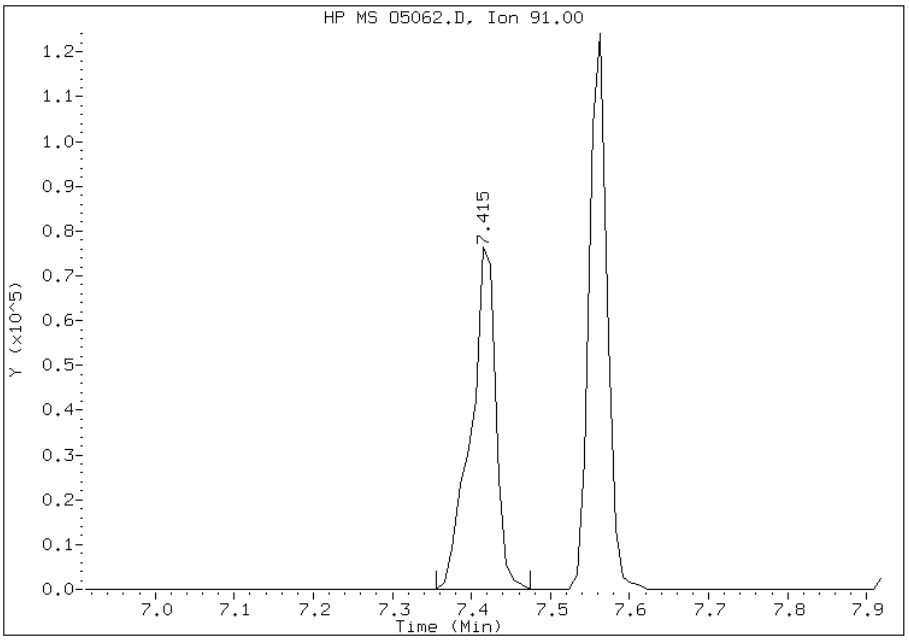
Processing Integration Results

RT: 7.41

Response: 170666

Amount: 6

Conc: 6



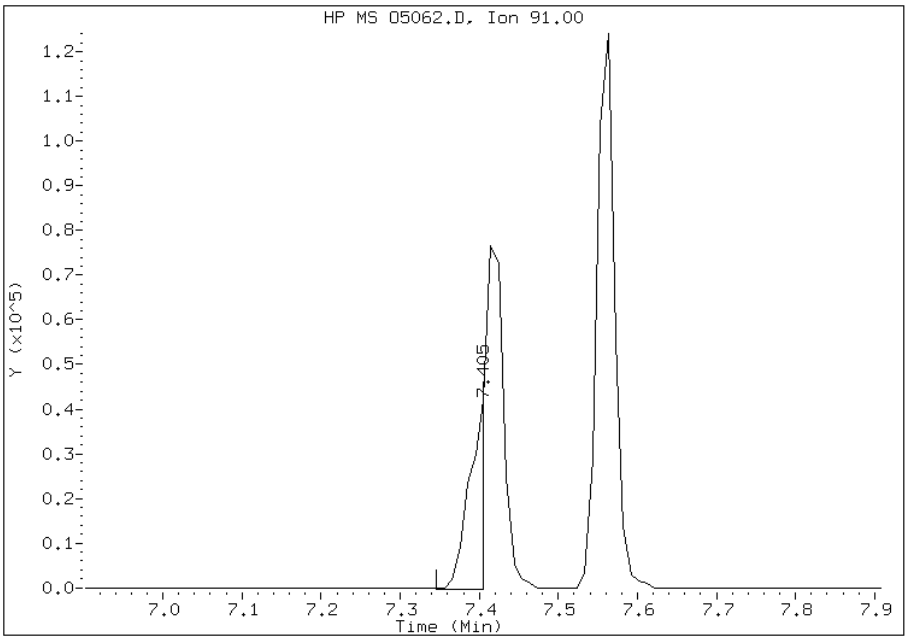
Manual Integration Results

RT: 7.41

Response: 64320

Amount: 5

Conc: 5



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 79 4-Methyl-2-Pentanone
CAS #: 108-10-1
Report Date: 12/24/2009

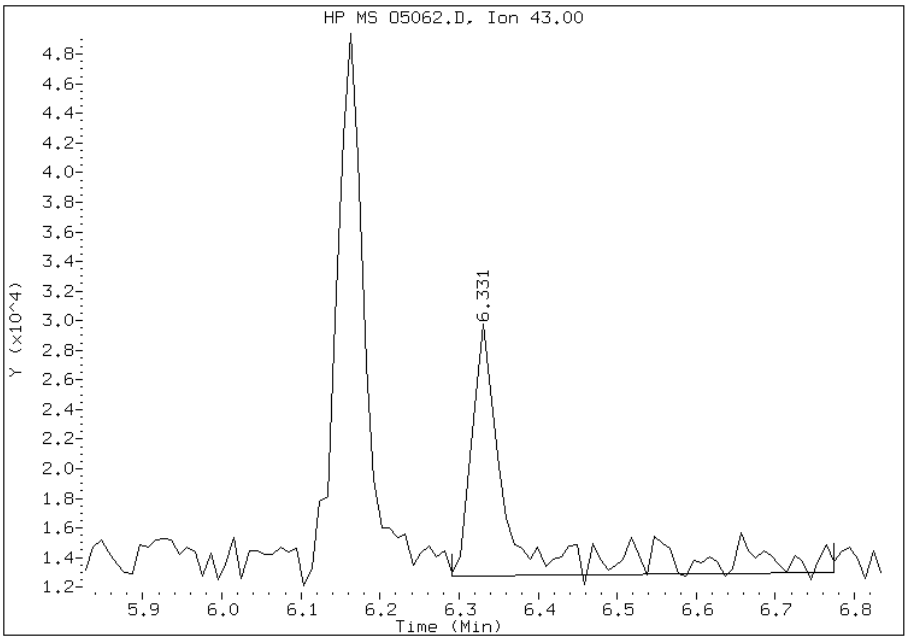
Processing Integration Results

RT: 6.33

Response: 63394

Amount: 8

Conc: 8



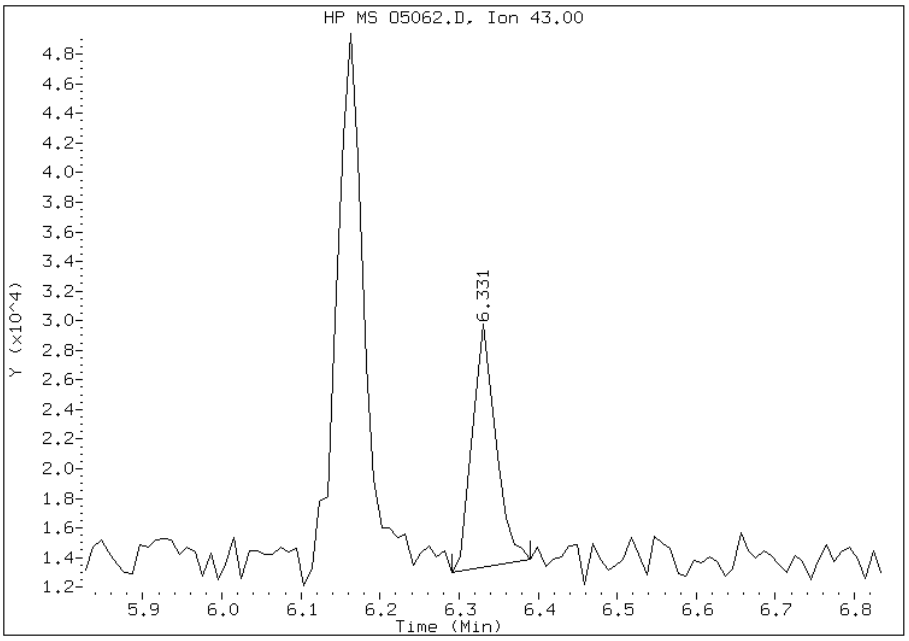
Manual Integration Results

RT: 6.33

Response: 34577

Amount: 5

Conc: 5



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 115 n-Butylbenzene
CAS #: 104-51-8
Report Date: 12/24/2009

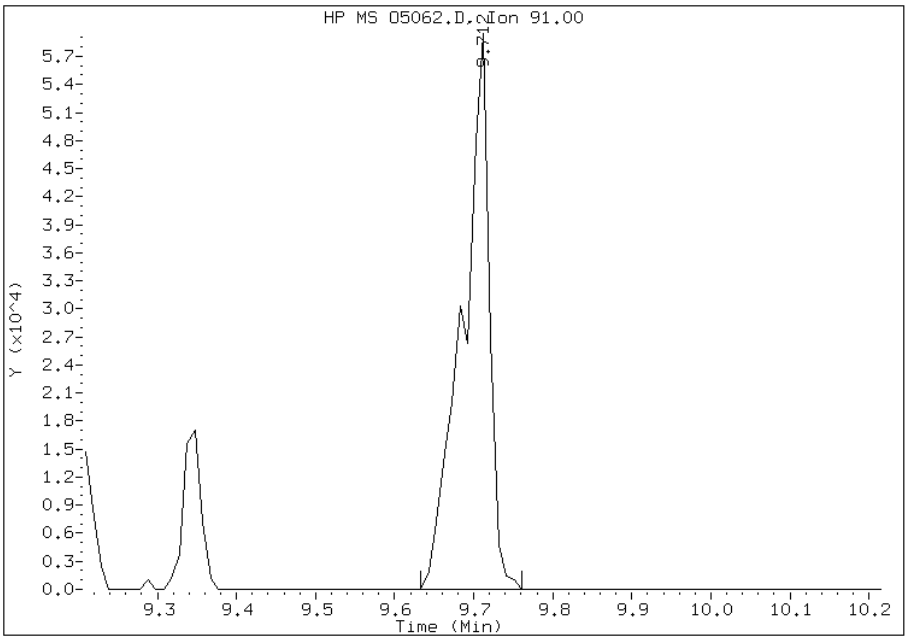
Processing Integration Results

RT: 9.71

Response: 142909

Amount: 6

Conc: 6



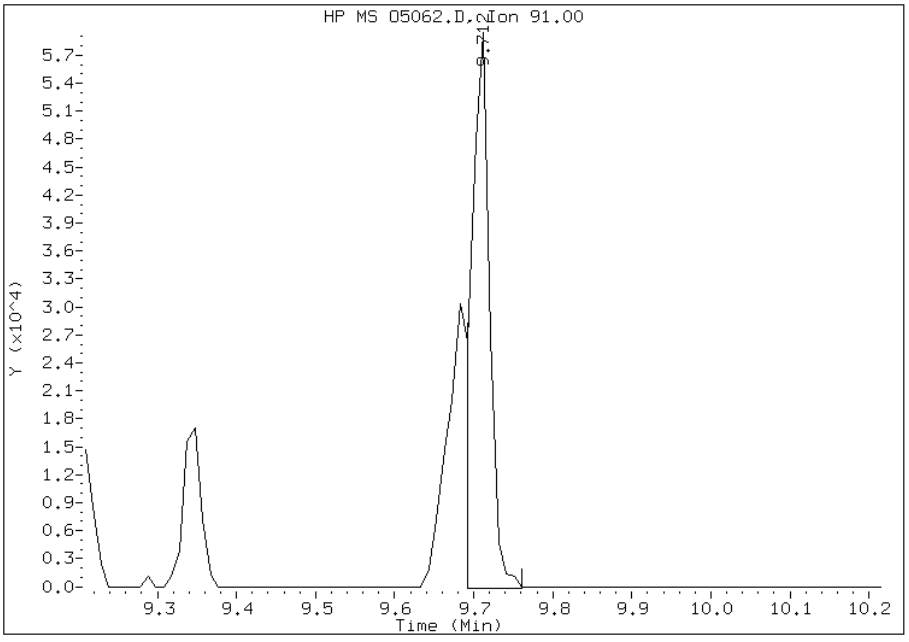
Manual Integration Results

RT: 9.71

Response: 100082

Amount: 5

Conc: 5



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5062.D
Inj. Date and Time: 23-DEC-2009 13:26
Instrument ID: mso.i
Client ID: IC;5
Compound: 86 2-Hexanone
CAS #: 591-78-6
Report Date: 12/24/2009

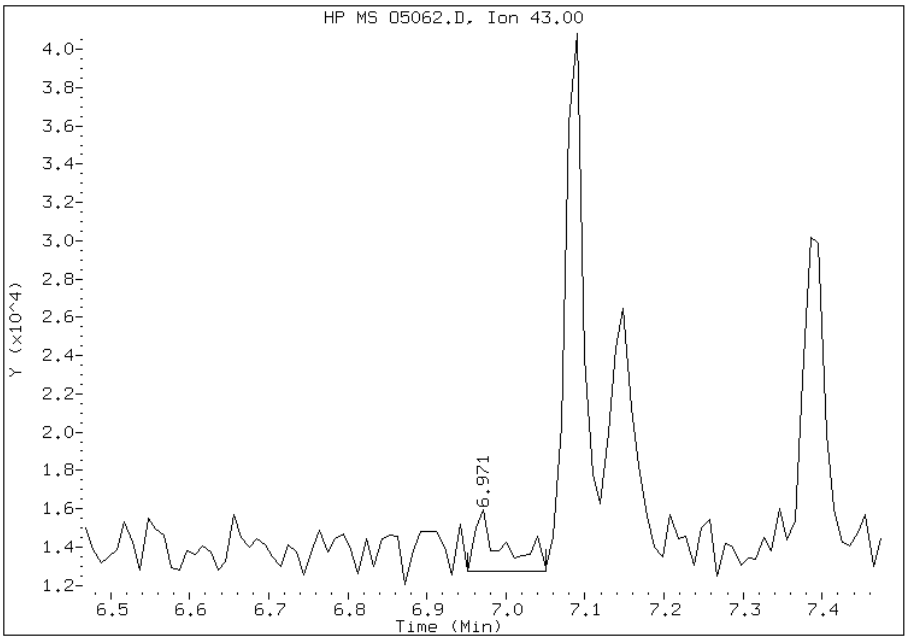
Processing Integration Results

RT: 6.97

Response: 8138

Amount: 2

Conc: 2



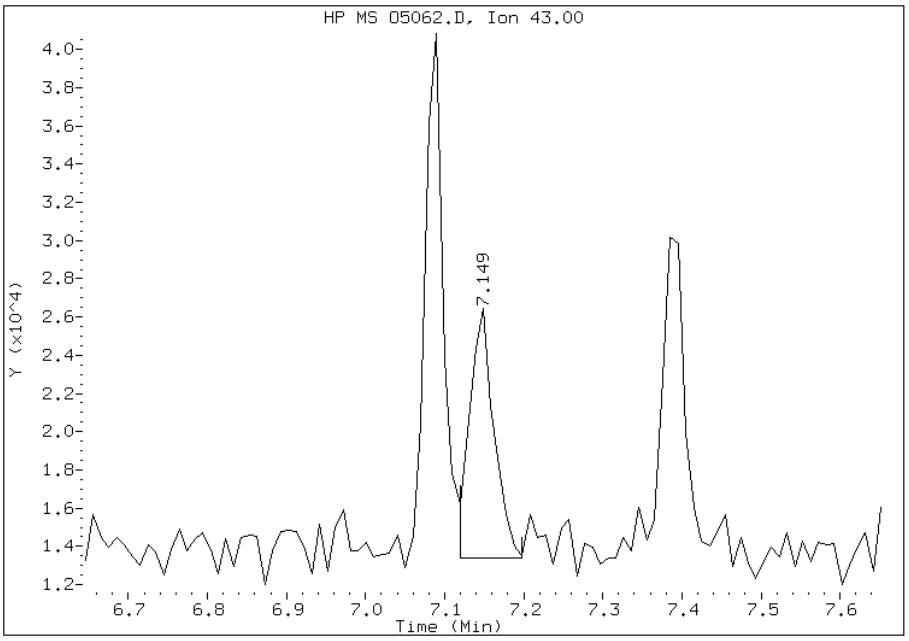
Manual Integration Results

RT: 7.15

Response: 29013

Amount: 5

Conc: 5



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O5063.D
Lab Smp Id: IC;20 Client Smp ID: IC;20
Inj Date : 23-DEC-2009 14:02 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : IC;20
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095055.b\O8260BNS.m
Meth Date : 23-Dec-2009 17:13 mso.i Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 68 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
* 1	Fluorobenzene	96	4.023	4.023	(1.000)	272934	25.0000	
2	Dichlorodifluoromethane	85	0.947	0.947	(0.235)	86838	20.0000	16
3	Chloromethane	50	1.025	1.025	(0.255)	150498	20.0000	17
4	Vinyl Chloride	62	1.065	1.065	(0.265)	120048	20.0000	16
5	Bromomethane	94	1.213	1.213	(0.302)	91397	20.0000	19
6	Chloroethane	64	1.262	1.262	(0.314)	73422	20.0000	18
7	Trichlorofluoromethane	101	1.321	1.321	(0.329)	163429	20.0000	17
8	Dichlorofluoromethane	67	1.341	1.341	(0.333)	246598	20.0000	18
9	Ethyl Ether	45	1.449	1.449	(0.360)	68887	20.0000	20
10	Ethanol	45	1.499	1.499	(0.373)	63399	200.000	160(M)
12	Freon 123	67	1.558	1.558	(0.387)	39089	20.0000	19
13	Trichlorotrifluoroethane	101	1.568	1.568	(0.390)	99491	20.0000	18
14	1,1-Dichloroethene	96	1.558	1.558	(0.387)	76395	20.0000	18
15	Carbon Disulfide	76	1.578	1.578	(0.392)	355462	20.0000	18
16	Iodomethane	142	1.637	1.637	(0.407)	134365	20.0000	17
17	Acrolein	56	1.716	1.716	(0.427)	49651	100.000	90
18	2-Propanol	45	1.834	1.834	(0.456)	21829	20.0000	22
19	3-Chloro-1-Propene	41	1.785	1.785	(0.444)	246147	20.0000	18
20	Methylene Chloride	84	1.844	1.844	(0.458)	104688	20.0000	19
21	Acetone	43	1.873	1.873	(0.466)	68930	20.0000	23(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
	22 trans-1,2-Dichloroethene	96	1.932	1.932	(0.480)	98822	20.0000	18
	23 Methyl Acetate	43	1.932	1.932	(0.480)	507260	20.0000	21
	24 Methyl tert-Butyl Ether	73	1.982	1.982	(0.493)	278236	20.0000	18
	25 tert-Butyl alcohol	59	2.061	2.061	(0.512)	78568	100.000	99
	26 Acetonitrile	41	2.159	2.159	(0.537)	129361	200.000	190
	27 Isopropyl ether	45	2.209	2.209	(0.549)	486571	20.0000	18
	28 tert-Butyl ethyl ether	59	2.465	2.465	(0.613)	397821	20.0000	19
	29 2-Chloro-1,3-Butadiene	88	2.297	2.297	(0.571)	79697	20.0000	18
	30 Acrylonitrile	53	2.347	2.347	(0.583)	75810	40.0000	38
	31 1,1-Dichloroethane	63	2.317	2.317	(0.576)	231813	20.0000	18
	32 Vinyl Acetate	43	2.475	2.475	(0.615)	189047	20.0000	10
	33 cis-1,2-Dichloroethene	96	2.711	2.711	(0.674)	104393	20.0000	18
	34 2,2-Dichloropropane	77	2.800	2.800	(0.696)	204987	20.0000	18
	35 Bromochloromethane	128	2.879	2.879	(0.716)	48804	20.0000	19
	37 Cyclohexane	84	2.879	2.879	(0.716)	175942	20.0000	18
	38 Chloroform	83	2.938	2.938	(0.730)	223656	20.0000	19
	39 Ethyl Acetate	43	3.047	3.047	(0.757)	9551	40.0000	23(MH)
	40 Methyl Acrylate	55	3.056	3.056	(0.760)	89253	20.0000	19(H)
$	41 Dibromofluoromethane	111	3.106	3.106	(0.772)	106177	20.0000	20
	42 Tetrahydrofuran	42	3.086	3.086	(0.767)	83794	40.0000	40
	43 Carbon Tetrachloride	117	3.066	3.066	(0.762)	157087	20.0000	17
	44 1,1,1-Trichloroethane	97	3.135	3.135	(0.779)	178754	20.0000	18
	45 2-Butanone	43	3.234	3.234	(0.804)	64035	20.0000	20
	46 1,1-Dichloropropene	75	3.254	3.254	(0.809)	171763	20.0000	18
	47 tert-Amyl methyl ether	73	3.658	3.658	(0.909)	299052	20.0000	19
	49 1-Chlorobutane	56	3.303	3.303	(0.821)	286757	20.0000	18
	50 Heptane	43	3.480	3.480	(0.865)	275108	20.0000	19
	51 Propionitrile	54	3.549	3.549	(0.882)	136430	200.000	190
	52 Benzene	78	3.510	3.510	(0.873)	405538	20.0000	18
	53 2-Methyl-2-Propenenitrile	41	3.569	3.569	(0.887)	70727	20.0000	19(M)
	54 Isobutyl alcohol	42	3.638	3.638	(0.904)	20551	200.000	200
$	55 1,2-Dichloroethane-d4	65	3.668	3.668	(0.912)	127082	20.0000	20
	56 1,2-Dichloroethane	62	3.746	3.746	(0.931)	161973	20.0000	18
	59 Methyl Cyclohexane	83	4.220	4.220	(1.049)	192789	20.0000	18
	60 Trichloroethene	130	4.239	4.239	(1.054)	104569	20.0000	18
	63 Dibromomethane	93	4.752	4.752	(1.181)	63867	20.0000	19
	64 1,2-Dichloropropane	63	4.870	4.870	(1.211)	114511	20.0000	18
	65 Bromodichloromethane	83	4.969	4.969	(1.235)	158473	20.0000	18
	66 Methyl Methacrylate	69	5.196	5.196	(1.292)	72220	20.0000	20
	67 1,4-Dioxane	58	5.265	5.265	(1.309)	8403	200.000	170(M)
	69 2-Chloroethylvinylether	63	5.639	5.639	(1.402)	48078	20.0000	41
	70 cis-1,3-Dichloropropene	75	5.669	5.669	(1.409)	178730	20.0000	19
	71 Chloroacetonitrile	48	6.103	6.103	(1.517)	42635	200.000	210
	72 2-Nitropropane	41	6.152	6.152	(1.529)	79040	40.0000	42
	73 trans-1,3-Dichloropropene	75	6.349	6.349	(1.578)	164115	20.0000	19
	74 1,1,2-Trichloroethane	97	6.497	6.497	(1.615)	70396	20.0000	19
*	75 Chlorobenzene-d5	117	7.355	7.355	(1.000)	220019	25.0000	
	76 Toluene	91	5.915	5.915	(0.804)	429522	20.0000	19
$	77 Toluene-d8	98	5.856	5.856	(0.796)	335759	20.0000	20
	78 1,1-Dichloro-2-propanone	43	6.162	6.162	(0.838)	346784	100.000	95(M)
	79 4-Methyl-2-Pentanone	43	6.329	6.329	(0.861)	134576	20.0000	19
	80 Tetrachloroethene	164	6.290	6.290	(0.855)	92507	20.0000	18
	81 Ethyl Methacrylate	69	6.556	6.556	(0.891)	130645	20.0000	19
	82 Dibromochloromethane	129	6.665	6.665	(0.906)	101527	20.0000	18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
83	1,3-Dichloropropane	76	6.753	6.753	(0.918)	149493	20.0000	19
84	1,2-Dibromoethane	107	6.862	6.862	(0.933)	78904	20.0000	19
86	2-Hexanone	43	7.148	7.148	(0.972)	106766	20.0000	19
87	1-Chlorohexane	91	7.404	7.404	(1.007)	222806	20.0000	18(M)
88	Chlorobenzene	112	7.374	7.374	(1.003)	251311	20.0000	19
89	1,1,1,2-Tetrachloroethane	131	7.443	7.443	(1.012)	94890	20.0000	18
90	Ethylbenzene	106	7.424	7.424	(1.009)	138072	20.0000	19(H)
91	Xylene (total)mp	106	7.562	7.562	(1.028)	341040	40.0000	38
92	Xylene (total)o	106	7.946	7.946	(1.080)	159484	20.0000	19
93	Styrene	104	7.996	7.996	(1.087)	254955	20.0000	19
94	Bromoform	173	7.996	7.996	(1.087)	68232	20.0000	18
* 95	1,4-Dichlorobenzene-d4	152	9.445	9.445	(1.000)	111897	25.0000	
96	Isopropylbenzene	105	8.232	8.232	(0.872)	432608	20.0000	19
97	Bromobenzene	156	8.548	8.548	(0.905)	107918	20.0000	18
98	1,1,2,2-Tetrachloroethane	83	8.676	8.676	(0.919)	97860	20.0000	19
99	4-Ethyltoluene	105	8.705	8.705	(0.922)	430473	20.0000	19(H)
100	1,2,3-Trichloropropane	110	8.774	8.774	(0.929)	25914	20.0000	19
101	trans-1,4-Dichloro-2-Butene	53	8.824	8.824	(0.934)	72690	40.0000	38
102	n-Propylbenzene	91	8.597	8.597	(0.910)	571349	20.0000	20(H)
103	2-Chlorotoluene	91	8.715	8.715	(0.923)	388624	20.0000	20(H)
104	4-Chlorotoluene	91	8.863	8.863	(0.938)	353365	20.0000	20
105	1,3,5-Trimethylbenzene	105	8.784	8.784	(0.930)	357355	20.0000	19
106	tert-Butylbenzene	119	9.050	9.050	(0.958)	307232	20.0000	19
107	1,2,4-Trimethylbenzene	105	9.119	9.119	(0.966)	354926	20.0000	19
108	sec-Butylbenzene	105	9.208	9.208	(0.975)	470141	20.0000	19
109	4-Isopropyltoluene	119	9.346	9.346	(0.990)	378883	20.0000	19
110	1,3-Dichlorobenzene	146	9.376	9.376	(0.993)	189170	20.0000	19
111	1,4-Dichlorobenzene	146	9.455	9.455	(1.001)	185160	20.0000	19
112	1,2-Dichlorobenzene	146	9.819	9.819	(1.040)	161988	20.0000	18
113	Benzyl Chloride	126	9.681	9.681	(1.025)	29730	20.0000	19
114	1,4-Diethylbenzene	119	9.662	9.662	(1.023)	184706	20.0000	19
115	n-Butylbenzene	91	9.711	9.711	(1.028)	445462	20.0000	20(M)
118	1,2,4,5-Tetramethylbenzene	119	10.372	10.372	(1.098)	281864	20.0000	19
119	1,2-Dibromo-3-chloropropane	75	10.519	10.519	(1.114)	16815	20.0000	19
120	Nitrobenzene	77	11.012	11.012	(1.166)	17926	200.000	160
121	1,2,4-Trichlorobenzene	180	11.111	11.111	(1.176)	86061	20.0000	15
122	Hexachlorobutadiene	225	11.111	11.111	(1.176)	89309	20.0000	18
123	Naphthalene	128	11.397	11.397	(1.207)	133614	20.0000	13
124	1,2,3-Trichlorobenzene	180	11.555	11.555	(1.223)	74245	20.0000	15
$ 125	Bromofluorobenzene	95	8.469	8.469	(0.897)	145614	20.0000	20
M 126	1,2-Dichloroethene (total)	100				203215	40.0000	36
M 127	Xylene (total)	100				500524	60.0000	57

QC Flag Legend

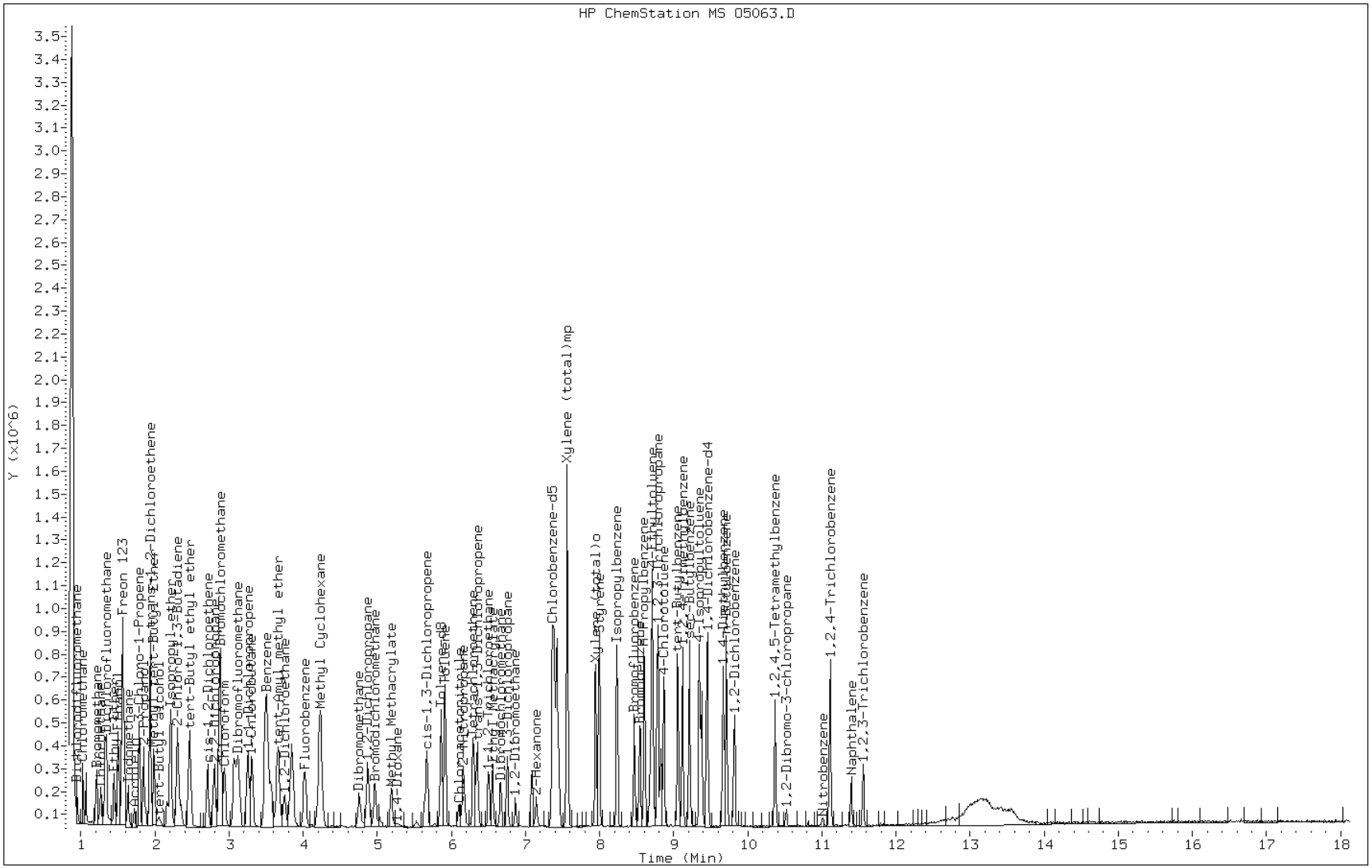
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: O5063.D

Date: 23-DEC-2009 14:02

Client ID: IC;20 Instrument: mso.i

Sample Info: IC;20 Operator: D. HUMBERT



Manual Integration Report

Data File: O5063.D
Inj. Date and Time: 23-DEC-2009 14:02
Instrument ID: mso.i
Client ID: IC;20
Compound: 39 Ethyl Acetate
CAS #: 141-78-6
Report Date: 12/24/2009

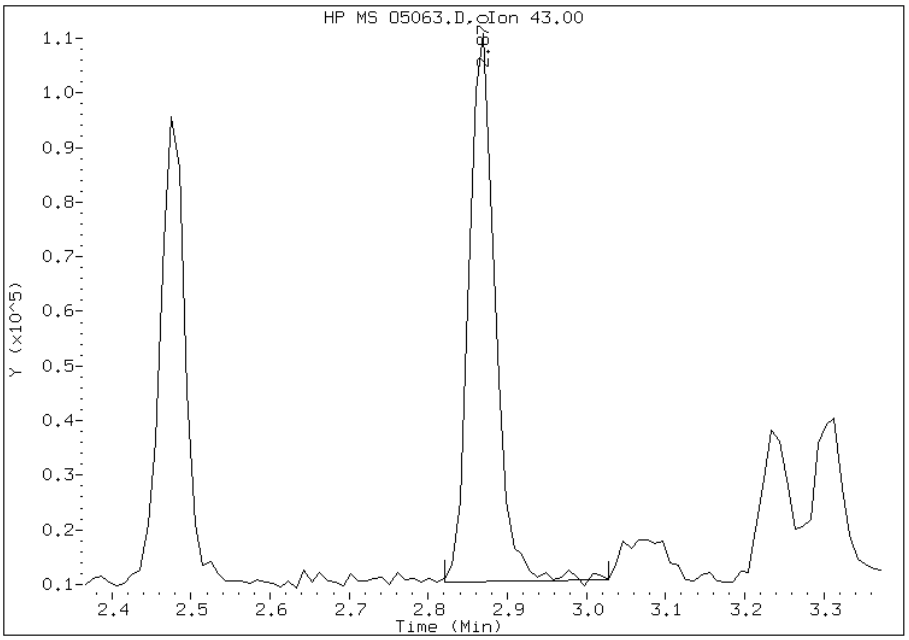
Processing Integration Results

RT: 2.87

Response: 236818

Amount: 37

Conc: 37



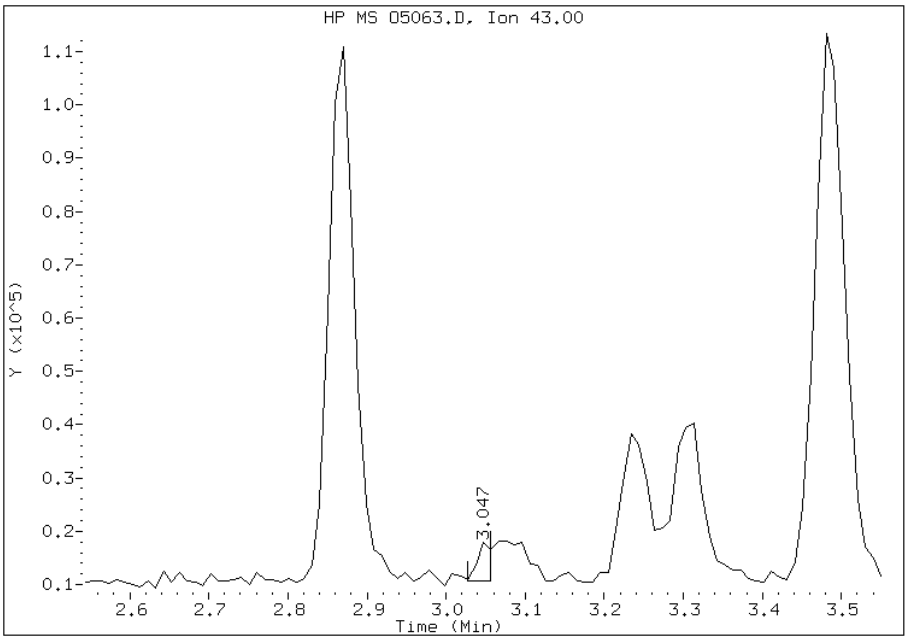
Manual Integration Results

RT: 3.05

Response: 9551

Amount: 23

Conc: 23



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5063.D
Inj. Date and Time: 23-DEC-2009 14:02
Instrument ID: mso.i
Client ID: IC;20
Compound: 78 1,1-Dichloro-2-propanone
CAS #: 513-88-2
Report Date: 12/24/2009

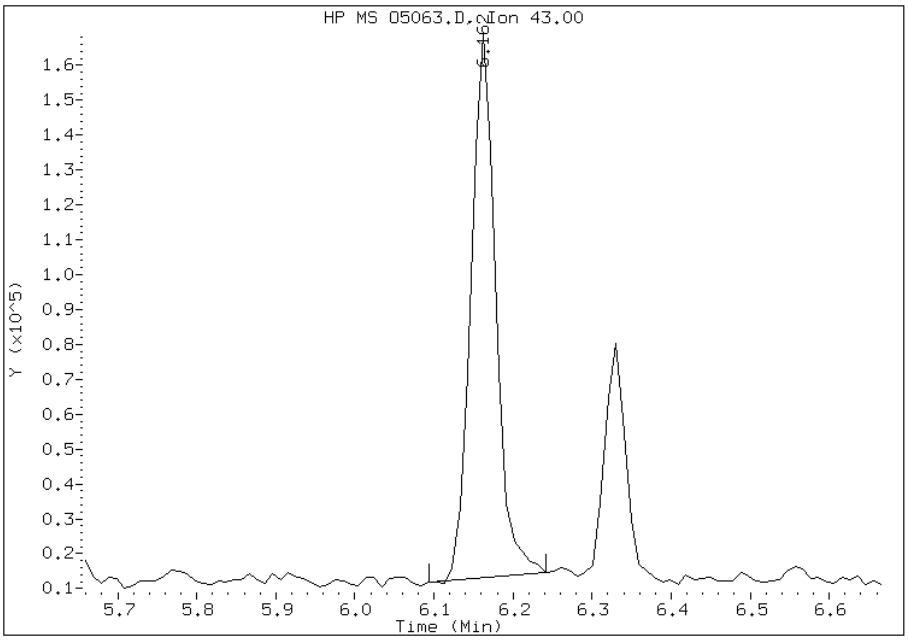
Processing Integration Results

RT: 6.16

Response: 346784

Amount: 95

Conc: 95



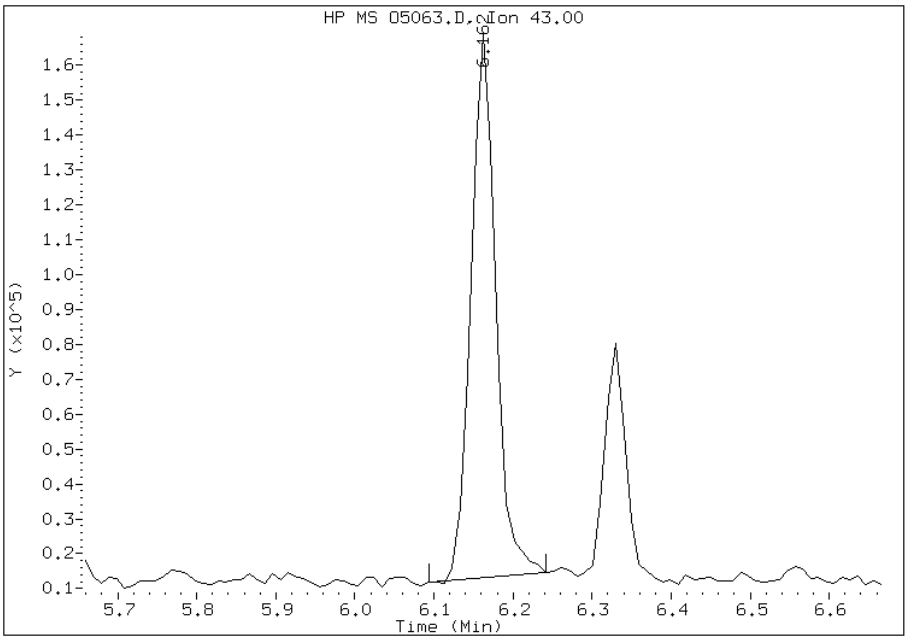
Manual Integration Results

RT: 6.16

Response: 346784

Amount: 95

Conc: 95



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5063.D
Inj. Date and Time: 23-DEC-2009 14:02
Instrument ID: mso.i
Client ID: IC;20
Compound: 53 2-Methyl-2-Propenenitrile
CAS #: 126-98-7
Report Date: 12/24/2009

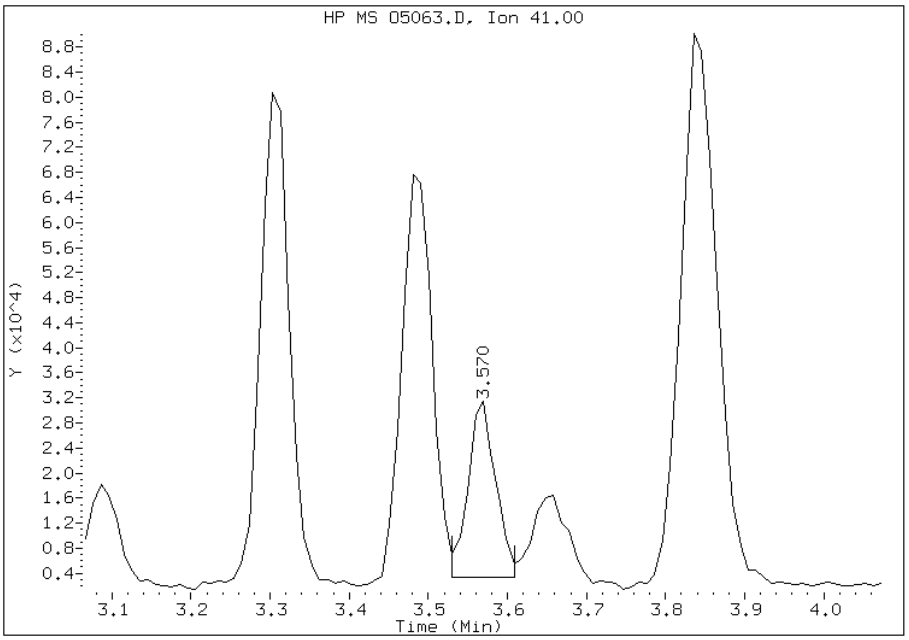
Processing Integration Results

RT: 3.57

Response: 70727

Amount: 19

Conc: 19



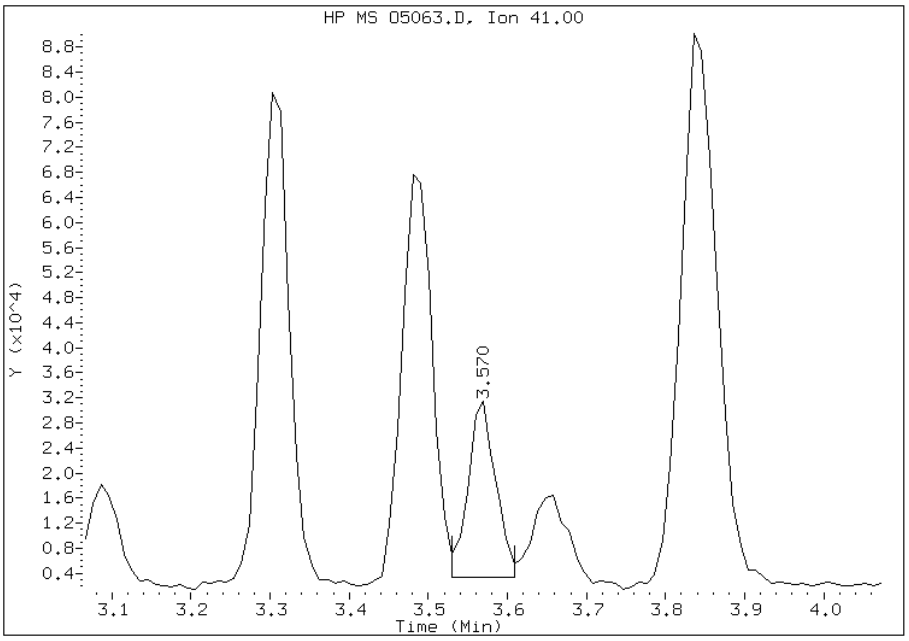
Manual Integration Results

RT: 3.57

Response: 70727

Amount: 19

Conc: 19



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5063.D
Inj. Date and Time: 23-DEC-2009 14:02
Instrument ID: mso.i
Client ID: IC;20
Compound: 67 1,4-Dioxane
CAS #: 123-91-1
Report Date: 12/24/2009

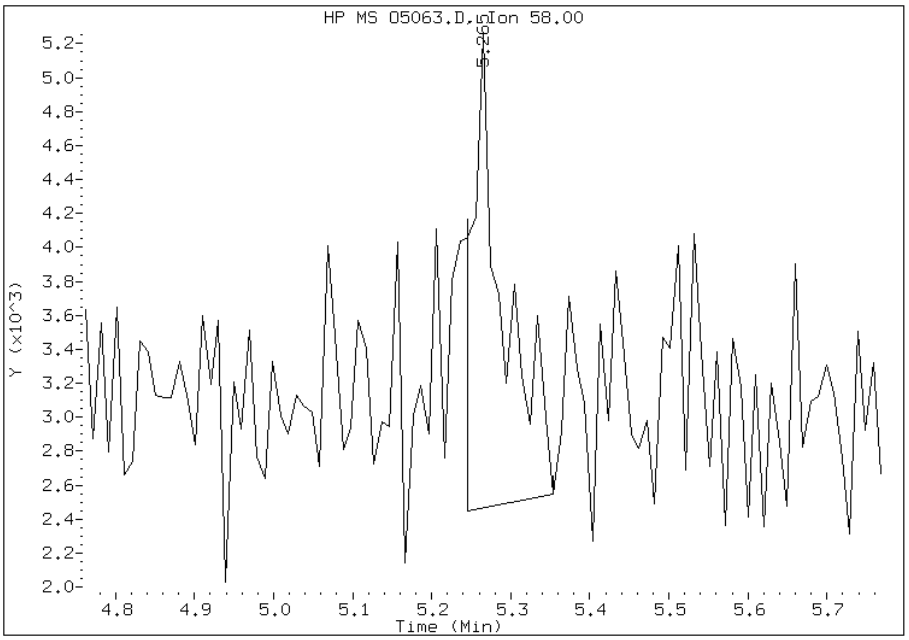
Processing Integration Results

RT: 5.27

Response: 7970

Amount: 70

Conc: 70



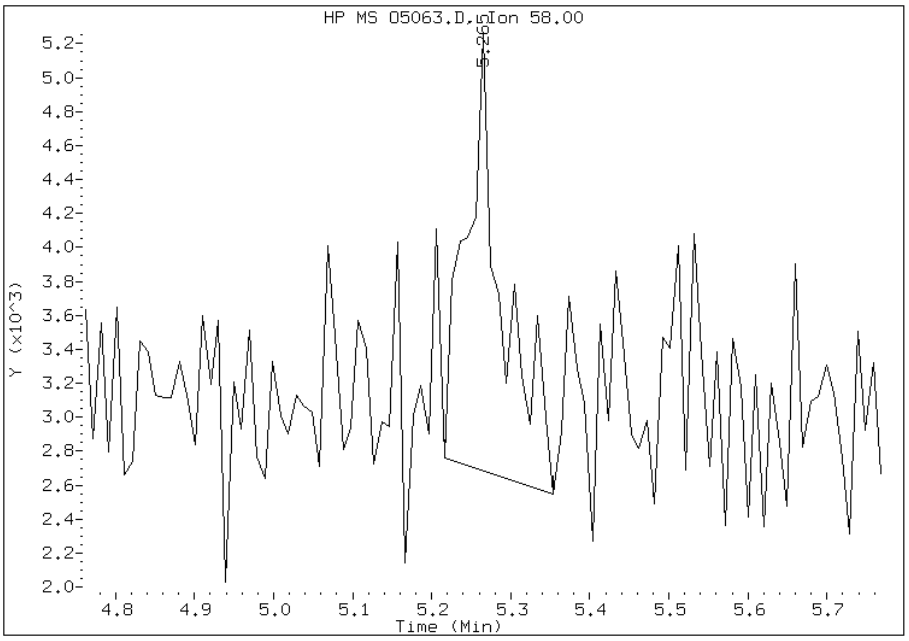
Manual Integration Results

RT: 5.27

Response: 8403

Amount: 169

Conc: 169



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5063.D
Inj. Date and Time: 23-DEC-2009 14:02
Instrument ID: mso.i
Client ID: IC;20
Compound: 115 n-Butylbenzene
CAS #: 104-51-8
Report Date: 12/24/2009

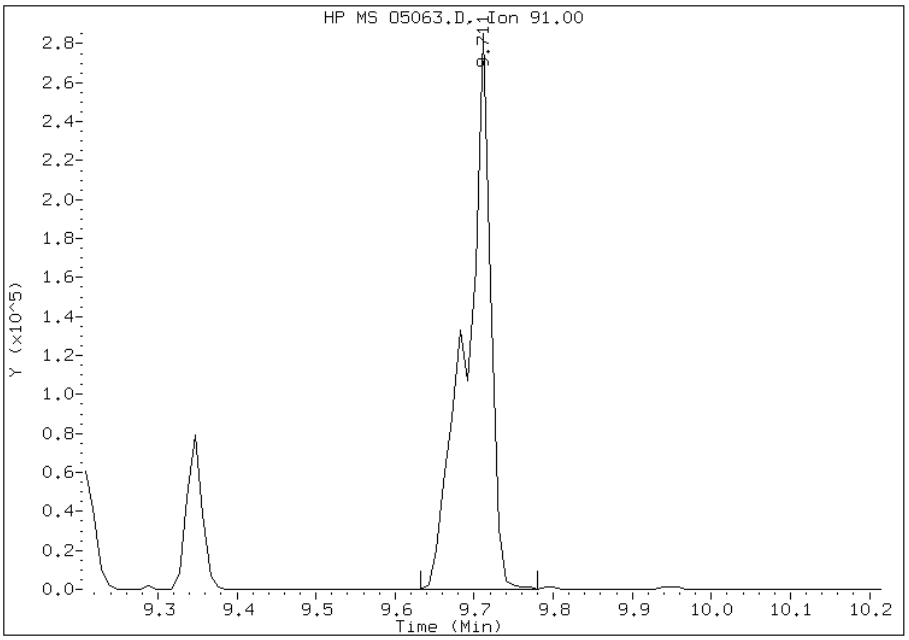
Processing Integration Results

RT: 9.71

Response: 625108

Amount: 27

Conc: 27



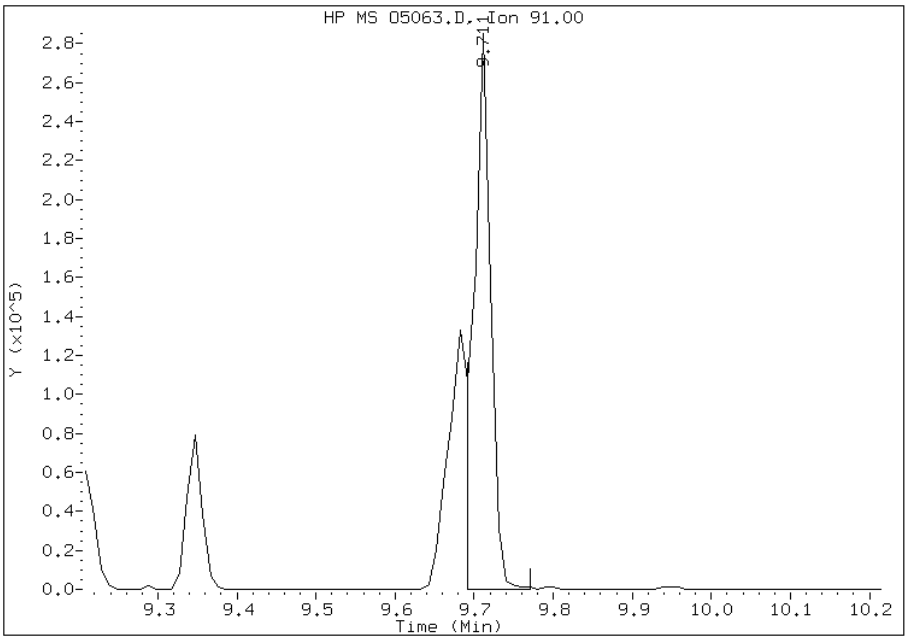
Manual Integration Results

RT: 9.71

Response: 445462

Amount: 20

Conc: 20



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5063.D
Inj. Date and Time: 23-DEC-2009 14:02
Instrument ID: mso.i
Client ID: IC;20
Compound: 10 Ethanol
CAS #: 64-17-5
Report Date: 12/24/2009

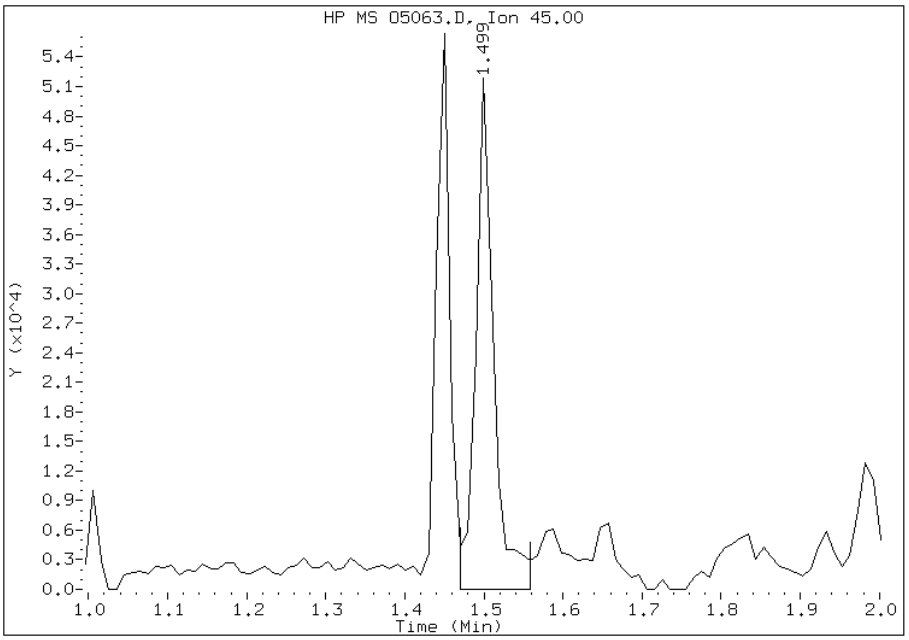
Processing Integration Results

RT: 1.50

Response: 85238

Amount: 217

Conc: 217



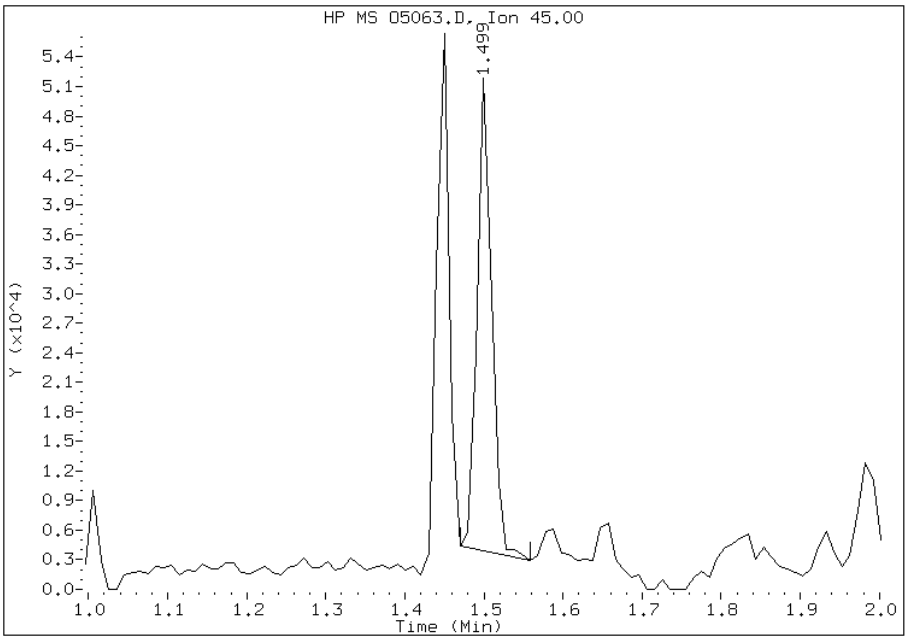
Manual Integration Results

RT: 1.50

Response: 63399

Amount: 164

Conc: 164



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: O5063.D
Inj. Date and Time: 23-DEC-2009 14:02
Instrument ID: mso.i
Client ID: IC;20
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/24/2009

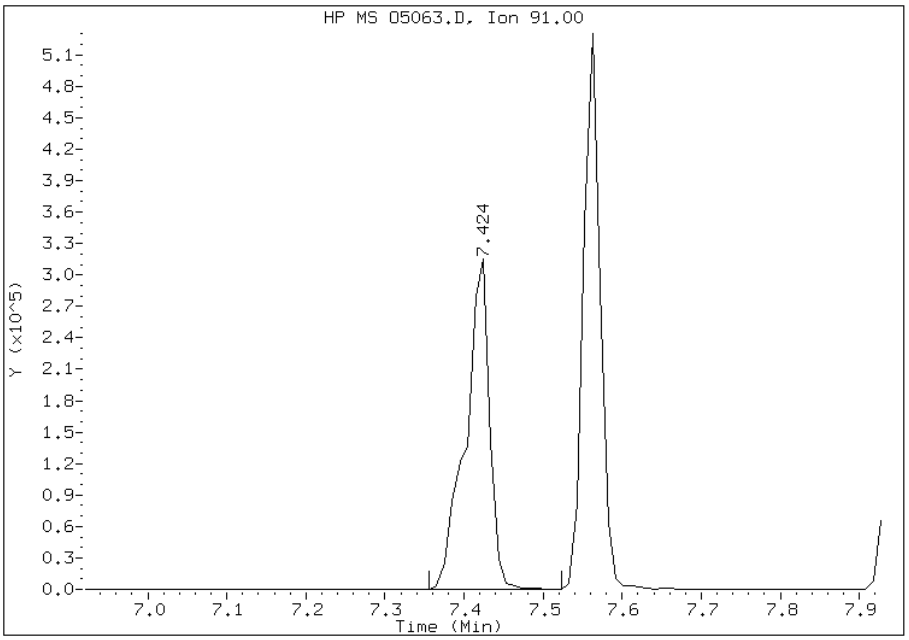
Processing Integration Results

RT: 7.42

Response: 679071

Amount: 24

Conc: 24



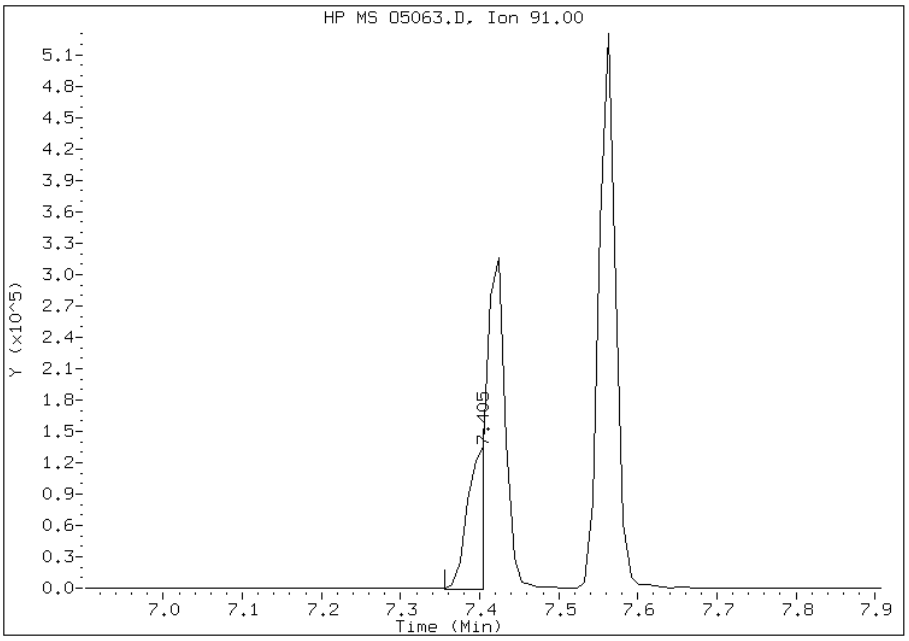
Manual Integration Results

RT: 7.40

Response: 222806

Amount: 18

Conc: 18



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34085/6	V8468.D
Level 2	IC 220-34085/1	V8457.D
Level 3	IC 220-34085/2	V8458.D
Level 4	IC 220-34085/3	V8459.D
Level 5	IC 220-34085/4	V8460.D
Level 6	IC 220-34085/5	V8461.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1145 0.1404	0.1184	0.1450	0.1476	0.1446	Ave		0.1351				10.9		15.0			
Chloromethane	0.1409 0.1209	0.1177	0.1188	0.1262	0.1239	Ave		0.1247			0.1000	6.8		15.0			
Vinyl chloride	0.1845 0.1816	0.1815	0.1966	0.1999	0.1887	Ave		0.1888				4.2		30.0			
Bromomethane	0.1611 0.1050	0.1080	0.0971	0.0955	0.1004	Lin	0.0239	0.1047							0.9993		
Chloroethane	0.1326 0.1039	0.1162	0.1187	0.1243	0.1143	Ave		0.1183				8.2		15.0			
Trichlorofluoromethane	0.4691 0.4785	0.4711	0.4737	0.5012	0.4903	Ave		0.4807				2.6		15.0			
Dichlorofluoromethane	0.4371 0.3495	0.4240	0.3986	0.4022	0.3807	Ave		0.3987				7.8		15.0			
Ethyl ether	0.1226 0.1202	0.1264	0.1160	0.1219	0.1204	Ave		0.1212				2.8		15.0			
Ethanol	0.0099 0.0098	0.0102	0.0093	0.0099	0.0099	Ave		0.0098				2.9		15.0			
1,1-Dichloroethene	0.1888 0.1789	0.1706	0.1665	0.1752	0.1760	Ave		0.1760				4.3		30.0			
Carbon disulfide	0.6185 0.6569	0.6107	0.6182	0.6583	0.6602	Ave		0.6371				3.7		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2547 0.2364	0.2267	0.2242	0.2351	0.2351	Ave		0.2354				4.6		15.0			
1,1,1-Trifluoro-2,2-dichloroethane	0.0692 0.0541	0.0571	0.0527	0.0530	0.0559	Ave		0.0570				10.9		15.0			
Iodomethane	0.1443 0.2778	0.1964	0.2019	0.2613	0.2727	Lin	0.0362	0.2796							0.9999		
Isopropyl alcohol	0.0128 0.0098	0.0130	0.0113	0.0103	0.0099	Ave		0.0112				12.8		15.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	0.0044 0.0031	0.0027	0.0024	0.0026	0.0028	Lin	0.2609	0.0031							0.9977		
3-Chloro-1-propene	0.3213 0.3447	0.3336	0.3154	0.3353	0.3415	Ave		0.3320				3.4		15.0			
Methylene Chloride	+++++ 0.2015	0.2233	0.2079	0.2093	0.2038	Ave		0.2092				4.0		15.0			
Acetone	+++++ 0.0443	0.0467	0.0423	0.0448	0.0438	Ave		0.0444				3.6		15.0			
trans-1,2-Dichloroethene	0.2230 0.2340	0.2319	0.2152	0.2277	0.2314	Ave		0.2272				3.1		15.0			
Methyl acetate	0.5307 0.5755	0.5537	0.5497	0.5852	0.5791	Ave		0.5623				3.7		15.0			
Methyl tert-butyl ether	0.6541 0.7098	0.6694	0.6357	0.6987	0.7015	Ave		0.6782				4.4		15.0			
2-Methyl-2-propanol	0.0122 0.0116	0.0127	0.0097	0.0107	0.0105	Ave		0.0112				10.2		15.0			
Acetonitrile	0.0115 0.0114	0.0127	0.0105	0.0111	0.0112	Ave		0.0114				6.3		15.0			
Isopropyl ether	0.6902 0.7181	0.6958	0.6627	0.7190	0.7156	Ave		0.7002				3.2		15.0			
2-Chloro-1,3-butadiene	0.1796 0.1910	0.1701	0.1700	0.1813	0.1882	Ave		0.1801				4.9		15.0			
1,1-Dichloroethane	0.4363 0.4330	0.4432	0.4127	0.4344	0.4341	Ave		0.4323			0.1000	2.4		15.0			
Acrylonitrile	0.0541 0.0535	0.0482	0.0537	0.0524	0.0533	Ave		0.0525				4.2		15.0			
Vinyl acetate	0.4206 0.5119	0.4912	0.4855	0.5129	0.5090	Ave		0.4885				7.2		15.0			
Tert-butyl ethyl ether	0.7355 0.7853	0.7667	0.7174	0.7781	0.7834	Ave		0.7611				3.7		15.0			
cis-1,2-Dichloroethene	0.2609 0.2554	0.2492	0.2402	0.2495	0.2527	Ave		0.2513				2.8		15.0			
2,2-Dichloropropane	0.4367 0.4126	0.4236	0.4142	0.4305	0.4238	Ave		0.4236				2.2		15.0			
Chlorobromomethane	0.1204 0.1267	0.1224	0.1177	0.1249	0.1225	Ave		0.1224				2.6		15.0			
Cyclohexane	0.3468 0.3400	0.3346	0.3158	0.3450	0.3418	Ave		0.3373				3.4		15.0			
Chloroform	0.4516 0.4577	0.4451	0.4266	0.4580	0.4586	Ave		0.4496				2.8		30.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.3941 0.4073	0.4179	0.3881	0.4164	0.4155	Ave		0.4066				3.1		15.0			
Methyl acrylate	0.1565 0.1648	0.1503	0.1476	0.1608	0.1625	Ave		0.1571				4.4		15.0			
Ethyl acetate	0.0222 0.0166	0.0170	0.0175	0.0162	0.0166	Ave		0.0177				12.7		15.0			
Tetrahydrofuran	0.0382 0.0416	0.0405	0.0394	0.0423	0.0423	Ave		0.0407				4.1		15.0			
1,1,1-Trichloroethane	0.4389 0.4456	0.4544	0.4364	0.4548	0.4548	Ave		0.4475				1.9		15.0			
2-Butanone (MEK)	0.0668 0.0606	0.0670	0.0596	0.0616	0.0608	Ave		0.0627				5.2		15.0			
1,1-Dichloropropene	0.3619 0.3471	0.3436	0.3296	0.3537	0.3489	Ave		0.3475				3.1		15.0			
1-Chlorobutane	0.4550 0.4820	0.4992	0.4662	0.4919	0.4883	Ave		0.4804				3.5		15.0			
Benzene	0.9866 0.9294	0.9440	0.8878	0.9327	0.9301	Ave		0.9351				3.4		15.0			
n-Heptane	0.3184 0.2753	0.2734	0.2591	0.2731	0.2728	Ave		0.2787				7.3		15.0			
Propionitrile	0.0130 0.0149	0.0145	0.0139	0.0147	0.0146	Ave		0.0143				5.1		15.0			
Methacrylonitrile	0.3160 0.2708	0.2664	0.2645	0.2750	0.2727	Ave		0.2776				6.9		15.0			
Isobutyl alcohol	0.0030 0.0026	0.0032	0.0027	0.0027	0.0027	Ave		0.0028				8.4		15.0			
Tert-amyl methyl ether	0.5752 0.6780	0.6348	0.5870	0.6536	0.6683	Ave		0.6328				6.8		15.0			
1,2-Dichloroethane	0.3423 0.3456	0.3595	0.3333	0.3543	0.3503	Ave		0.3476				2.7		15.0			
1,4-Dioxane	+++++ 0.0009	0.0006	0.0010	0.0009	0.0009	Lin	0.2392	0.0009							0.9998		
Methylcyclohexane	0.4263 0.4205	0.4197	0.3932	0.4206	0.4193	Ave		0.4166				2.8		15.0			
Trichloroethene	0.2666 0.2691	0.2651	0.2523	0.2682	0.2685	Ave		0.2650				2.4		15.0			
Dibromomethane	0.1419 0.1403	0.1384	0.1302	0.1435	0.1411	Ave		0.1392				3.4		15.0			
1,2-Dichloropropane	0.2402 0.2414	0.2375	0.2262	0.2438	0.2427	Ave		0.2386				2.7		30.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorobromomethane	0.3253 0.3340	0.3134	0.3071	0.3357	0.3409	Ave		0.3261				4.1		15.0			
Methyl methacrylate	0.1138 0.1423	0.1280	0.1217	0.1363	0.1394	Ave		0.1302				8.5		15.0			
2-Chloroethyl vinyl ether	0.1207 0.1182	0.1195	0.1080	0.1172	0.1188	Ave		0.1171				3.9		15.0			
cis-1,3-Dichloropropene	0.3620 0.3814	0.3717	0.3571	0.3882	0.3926	Ave		0.3755				3.8		15.0			
Toluene	1.5930 1.7098	1.5487	1.4423	1.5576	1.6084	Ave		1.5766				5.5		30.0			
Chloroacetonitrile	0.0029 0.0037	0.0033	0.0031	0.0033	0.0034	Ave		0.0033				8.1		15.0			
2-Nitropropane	0.0443 0.0418	0.0444	0.0407	0.0436	0.0435	Ave		0.0431				3.5		15.0			
1,1-Dichloroacetone	0.0890 0.1277	0.1002	0.0995	0.1145	0.1186	Ave		0.1082				13.3		15.0			
Tetrachloroethene	0.3953 0.3830	0.3400	0.3296	0.3504	0.3579	Ave		0.3594				7.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.1651 0.2456	0.1945	0.1883	0.2168	0.2275	Ave		0.2063				14.2		15.0			
trans-1,3-Dichloropropene	0.3697 0.3484	0.3527	0.3320	0.3719	0.3666	Ave		0.3569				4.3		15.0			
1,1,2-Trichloroethane	0.1851 0.1763	0.1857	0.1747	0.1862	0.1814	Ave		0.1816				2.8		15.0			
Ethyl methacrylate	0.2866 0.4208	0.3095	0.2999	0.3571	0.3880	Ave		0.3437				15.6	*	15.0			
Chlorodibromomethane	0.3190 0.4248	0.3538	0.3464	0.3929	0.4111	Ave		0.3747				11.0		15.0			
1,3-Dichloropropane	0.5224 0.5533	0.5054	0.4951	0.5211	0.5350	Ave		0.5220				4.0		15.0			
Ethylene Dibromide	0.2950 0.3262	0.3151	0.2939	0.3119	0.3168	Ave		0.3098				4.1		15.0			
2-Hexanone	0.1056 0.1557	0.1289	0.1145	0.1367	0.1445	Ave		0.1310				14.3		15.0			
Chlorobenzene	0.9577 0.9185	0.8999	0.8213	0.8920	0.8973	Ave		0.8978			0.3000	5.0		15.0			
1-Chlorohexane	0.4267 0.4031	0.3439	0.3173	0.4104	0.4085	Ave		0.3850				11.3		15.0			
Ethylbenzene	0.5301 0.4907	0.4787	0.4424	0.4941	0.4884	Ave		0.4874				5.8		30.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	0.3583 0.3737	0.3611	0.3473	0.3761	0.3798	Ave		0.3660				3.4		15.0			
m-Xylene & p-Xylene	0.5947 0.5497	0.5295	0.4921	0.5485	0.5446	Ave		0.5432				6.1		15.0			
o-Xylene	0.5086 0.4945	0.5038	0.4517	0.4986	0.4937	Ave		0.4918				4.2		15.0			
Bromoform	0.1941 0.2255	0.2037	0.1973	0.2185	0.2267	Ave		0.2110			0.1000	6.8		15.0			
Styrene	0.7643 0.8064	0.7247	0.6797	0.7846	0.7806	Ave		0.7567				6.1		15.0			
Isopropylbenzene	3.7416 2.9061	3.4054	3.1209	3.4611	3.1964	Ave		3.3053				8.9		15.0			
Bromobenzene	1.0191 0.7986	0.9193	0.8341	0.8955	0.8362	Ave		0.8838				9.0		15.0			
N-Propylbenzene	3.9321 3.2328	3.5103	3.3760	3.6119	3.3957	Ave		3.5098				6.9		15.0			
1,1,2,2-Tetrachloroethane	0.7218 0.5843	0.6288	0.6048	0.6387	0.6159	Ave		0.6324			0.3000	7.5		15.0			
4-Ethyltoluene	3.2196 2.8536	3.0296	2.8611	3.0970	2.9126	Ave		2.9956				4.9		15.0			
2-Chlorotoluene	2.8797 2.3015	2.5055	2.3385	2.5528	2.3913	Ave		2.4949				8.5		15.0			
1,2,3-Trichloropropane	0.2036 0.1944	0.2269	0.2246	0.2192	0.2085	Ave		0.2129				6.0		15.0			
1,3,5-Trimethylbenzene	2.6348 2.4606	2.4863	2.3868	2.5563	2.4699	Ave		2.4991				3.4		15.0			
trans-1,4-Dichloro-2-butene	0.1896 0.2217	0.2253	0.2340	0.2493	0.2361	Ave		0.2260				9.0		15.0			
4-Chlorotoluene	2.5883 2.1079	2.2812	2.1117	2.2862	2.1415	Ave		2.2528				8.1		15.0			
tert-Butylbenzene	2.2020 2.0256	2.1042	1.9847	2.1022	2.0287	Ave		2.0746				3.8		15.0			
1,2,4-Trimethylbenzene	2.4990 2.4785	2.4126	2.2927	2.4660	2.4500	Ave		2.4331				3.1		15.0			
sec-Butylbenzene	3.1935 2.8045	2.7493	2.6249	2.8751	2.7941	Ave		2.8402				6.8		15.0			
4-Isopropyltoluene	2.5109 2.4447	2.1734	2.2291	2.3637	2.4246	Ave		2.3577				5.6		15.0			
1,3-Dichlorobenzene	1.5145 1.3605	1.3247	1.2534	1.3244	1.3233	Ave		1.3501				6.5		15.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	1.6114 1.3646	1.3000	1.2535	1.3383	1.3319	Ave		1.3666				9.2		15.0			
p-Diethylbenzene	1.3239 1.3139	1.1386	1.1265	1.1959	1.2740	Ave		1.2288				7.1		15.0			
Benzyl chloride	0.1998 0.2778	0.2442	0.2325	0.2489	0.2704	Ave		0.2456				11.4		15.0			
n-Butylbenzene	2.2203 2.1737	2.1091	1.9634	2.0498	2.1174	Ave		2.1056				4.3		15.0			
1,2-Dichlorobenzene	1.4286 1.2807	1.1762	1.1238	1.2073	1.2435	Ave		1.2434				8.5		15.0			
1,2,4,5-Tetramethylbenzene	2.3430 2.4255	1.8910	1.8997	2.1248	2.2514	Ave		2.1559				10.4		15.0			
1,2-Dibromo-3-Chloropropane	0.1376 0.1307	0.1041	0.1084	0.1073	0.1163	Ave		0.1174				11.7		15.0			
Nitrobenzene	0.0314 0.0522	0.0296	0.0290	0.0337	0.0417	Qua	0.3293	27.229	-3.953						0.9995		
Hexachlorobutadiene	0.5656 0.5306	0.4711	0.4539	0.4694	0.5014	Ave		0.4986				8.6		15.0			
1,2,4-Trichlorobenzene	1.1803 1.1215	0.8969	0.9067	0.9477	1.0297	Ave		1.0138				11.6		15.0			
Naphthalene	2.1883 2.1583	1.6770	1.6687	1.7889	1.9664	Ave		1.9079				12.2		15.0			
1,2,3-Trichlorobenzene	1.1729 1.0296	0.8455	0.8434	0.8962	0.9607	Ave		0.9580				13.3		15.0			
Dibromofluoromethane	0.2596 0.2295	0.2331	0.2371	0.2263	0.2282	Ave		0.2356				5.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3170 0.2689	0.2965	0.2910	0.2757	0.2772	Ave		0.2877				6.1		15.0			
Toluene-d8 (Surr)	1.5183 1.3997	1.3670	1.3103	1.2782	1.3228	Ave		1.3660				6.3		15.0			
4-Bromofluorobenzene	1.2372 0.8281	1.0905	1.0138	0.9689	0.8967	Ave		1.0059				14.4		15.0			

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

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34085/6	V8468.D
Level 2	IC 220-34085/1	V8457.D
Level 3	IC 220-34085/2	V8458.D
Level 4	IC 220-34085/3	V8459.D
Level 5	IC 220-34085/4	V8460.D
Level 6	IC 220-34085/5	V8461.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3185 777005	12086	37343	150792	379664	0.500 100	2.00	5.00	20.0	50.0
Chloromethane	FB	Ave	3919 669016	12009	30599	128927	325376	0.500 100	2.00	5.00	20.0	50.0
Vinyl chloride	FB	Ave	5130 1005220	18525	50625	204166	495295	0.500 100	2.00	5.00	20.0	50.0
Bromomethane	FB	Lin	4480 581282	11019	25012	97495	263530	0.500 100	2.00	5.00	20.0	50.0
Chloroethane	FB	Ave	3687 575123	11859	30553	126964	300168	0.500 100	2.00	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	13046 2648073	48076	121962	511967	1287322	0.500 100	2.00	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	12157 1934438	43272	102620	410843	999605	0.500 100	2.00	5.00	20.0	50.0
Ethyl ether	FB	Ave	3409 665282	12903	29863	124470	315989	0.500 100	2.00	5.00	20.0	50.0
Ethanol	FB	Ave	2747 541332	10403	24000	101312	260538	5.00 1000	20.0	50.0	200	500
1,1-Dichloroethene	FB	Ave	5251 989959	17412	42873	178961	462108	0.500 100	2.00	5.00	20.0	50.0
Carbon disulfide	FB	Ave	17201 3635350	62322	159156	672350	1733288	0.500 100	2.00	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	7084 1308531	23136	57719	240172	617313	0.500 100	2.00	5.00	20.0	50.0
1,1,1-Trifluoro-2,2-dichloroethane	FB	Ave	1924 299378	5825	13567	54141	146845	0.500 100	2.00	5.00	20.0	50.0
Iodomethane	FB	Lin	4012 1537554	20047	51980	266908	716032	0.500 100	2.00	5.00	20.0	50.0
Isopropyl alcohol	FB	Ave	355 54379	1329	2899	10547	25878	0.500 100	2.00	5.00	20.0	50.0
Acrolein	FB	Lin	610 84734	1362	3145	13517	36495	2.50 500	10.0	25.0	100	250

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
3-Chloro-1-propene	FB	Ave	8936 1907532	34047	81208	342437	896606	0.500 100	2.00	5.00	20.0	50.0
Methylene Chloride	FB	Ave	+++++ 1115417	22783	53529	213826	535198	+++++ 100	2.00	5.00	20.0	50.0
Acetone	FB	Ave	+++++ 245266	4767	10899	45713	114924	+++++ 100	2.00	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	6202 1294799	23669	55409	232528	607652	0.500 100	2.00	5.00	20.0	50.0
Methyl acetate	FB	Ave	14760 3184883	56510	141516	597688	1520474	0.500 100	2.00	5.00	20.0	50.0
Methyl tert-butyl ether	FB	Ave	18190 3928347	68317	163673	713663	1841647	0.500 100	2.00	5.00	20.0	50.0
2-Methyl-2-propanol	FB	Ave	1700 321232	6496	12475	54771	137797	2.50 500	10.0	25.0	100	250
Acetonitrile	FB	Ave	3197 628912	12928	26966	113852	293665	5.00 1000	20.0	50.0	200	500
Isopropyl ether	FB	Ave	19195 3974105	71003	170618	734355	1878832	0.500 100	2.00	5.00	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	4996 1057272	17362	43777	185191	494182	0.500 100	2.00	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	12133 2396585	45233	106248	443719	1139610	0.500 100	2.00	5.00	20.0	50.0
Acrylonitrile	FB	Ave	3008 591840	9835	27632	106967	279788	1.00 200	4.00	10.0	40.0	100
Vinyl acetate	FB	Ave	11696 2833136	50123	125003	523926	1336438	0.500 100	2.00	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	20453 4346236	78247	184697	794758	2056720	0.500 100	2.00	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	7255 1413495	25427	61838	254820	663429	0.500 100	2.00	5.00	20.0	50.0
2,2-Dichloropropane	FB	Ave	12145 2283335	43225	106653	439727	1112563	0.500 100	2.00	5.00	20.0	50.0
Chlorobromomethane	FB	Ave	3348 701312	12494	30312	127531	321620	0.500 100	2.00	5.00	20.0	50.0
Cyclohexane	FB	Ave	9644 1881567	34143	81299	352333	897425	0.500 100	2.00	5.00	20.0	50.0
Chloroform	FB	Ave	12559 2533319	45420	109829	467795	1204079	0.500 100	2.00	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	10960 2254312	42647	99932	425349	1090790	0.500 100	2.00	5.00	20.0	50.0
Methyl acrylate	FB	Ave	4353 912313	15341	38006	164222	426557	0.500 100	2.00	5.00	20.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethyl acetate	FB	Ave	1234 184044	3462	9011	33089	87062	1.00 200	4.00	10.0	40.0	100
Tetrahydrofuran	FB	Ave	2127 460751	8256	20264	86403	222123	1.00 200	4.00	10.0	40.0	100
1,1,1-Trichloroethane	FB	Ave	12205 2465947	46368	112349	464486	1194165	0.500 100	2.00	5.00	20.0	50.0
2-Butanone (MEK)	FB	Ave	1858 335178	6835	15355	62958	159705	0.500 100	2.00	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	10064 1921034	35063	84863	361218	915910	0.500 100	2.00	5.00	20.0	50.0
1-Chlorobutane	FB	Ave	12654 2667315	50948	120030	502449	1281980	0.500 100	2.00	5.00	20.0	50.0
Benzene	FB	Ave	27438 5143436	96335	228578	952677	2441908	0.500 100	2.00	5.00	20.0	50.0
n-Heptane	FB	Ave	8855 1523777	27898	66710	278959	716151	0.500 100	2.00	5.00	20.0	50.0
Propionitrile	FB	Ave	3608 826495	14847	35861	149904	384524	5.00 1000	20.0	50.0	200	500
Methacrylonitrile	FB	Ave	8789 1498486	27191	68102	280900	715837	0.500 100	2.00	5.00	20.0	50.0
Isobutyl alcohol	FB	Ave	845 145852	3280	6892	27970	70339	5.00 1000	20.0	50.0	200	500
Tert-amyl methyl ether	FB	Ave	15997 3752516	64777	151120	667595	1754584	0.500 100	2.00	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	9519 1912807	36687	85819	361861	919799	0.500 100	2.00	5.00	20.0	50.0
1,4-Dioxane	FB	Lin	+++++ 50752	645	2510	8710	23778	+++++ 1000	20.0	50.0	200	500
Methylcyclohexane	FB	Ave	11855 2327033	42826	101234	429575	1100799	0.500 100	2.00	5.00	20.0	50.0
Trichloroethene	FB	Ave	7415 1489077	27053	64966	273977	705024	0.500 100	2.00	5.00	20.0	50.0
Dibromomethane	FB	Ave	3945 776633	14127	33521	146542	370543	0.500 100	2.00	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	6680 1335923	24234	58230	248986	637138	0.500 100	2.00	5.00	20.0	50.0
Dichlorobromomethane	FB	Ave	9047 1848586	31984	79074	342890	894967	0.500 100	2.00	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	3166 787385	13058	31342	139191	366023	0.500 100	2.00	5.00	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	3358 653891	12196	27803	119750	311814	0.500 100	2.00	5.00	20.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
cis-1,3-Dichloropropene	FB	Ave	10068 2110888	37928	91941	396557	1030853	0.500 100	2.00	5.00	20.0	50.0
Toluene	CBZ	Ave	27522 5163159	99190	225974	983340	2508636	0.500 100	2.00	5.00	20.0	50.0
Chloroacetonitrile	FB	Ave	795 202224	3387	8026	33675	88295	5.00 1000	20.0	50.0	200	500
2-Nitropropane	FB	Ave	2464 462399	9071	20970	89100	228515	1.00 200	4.00	10.0	40.0	100
1,1-Dichloroacetone	CBZ	Ave	7691 1927515	32079	77970	361345	924722	2.50 500	10.0	25.0	100	250
Tetrachloroethene	CBZ	Ave	6830 1156626	21777	51642	221232	558202	0.500 100	2.00	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	2853 741743	12456	29509	136843	354836	0.500 100	2.00	5.00	20.0	50.0
trans-1,3-Dichloropropene	FB	Ave	10282 1928129	35995	85488	379872	962491	0.500 100	2.00	5.00	20.0	50.0
1,1,2-Trichloroethane	FB	Ave	5147 975514	18955	44975	190218	476134	0.500 100	2.00	5.00	20.0	50.0
Ethyl methacrylate	CBZ	Ave	4951 1270865	19821	46990	225435	605233	0.500 100	2.00	5.00	20.0	50.0
Chlorodibromomethane	CBZ	Ave	5512 1282912	22659	54268	248074	641138	0.500 100	2.00	5.00	20.0	50.0
1,3-Dichloropropane	CBZ	Ave	9025 1670885	32369	77567	328985	834423	0.500 100	2.00	5.00	20.0	50.0
Ethylene Dibromide	CBZ	Ave	5097 985111	20184	46056	196896	494175	0.500 100	2.00	5.00	20.0	50.0
2-Hexanone	CBZ	Ave	1825 470278	8257	17946	86274	225438	0.500 100	2.00	5.00	20.0	50.0
Chlorobenzene	CBZ	Ave	16546 2773798	57637	128685	563115	1399484	0.500 100	2.00	5.00	20.0	50.0
1-Chlorohexane	CBZ	Ave	7372 1217286	22027	49715	259123	637202	0.500 100	2.00	5.00	20.0	50.0
Ethylbenzene	CBZ	Ave	9158 1481664	30662	69308	311919	761817	0.500 100	2.00	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6191 1128408	23127	54408	237458	592350	0.500 100	2.00	5.00	20.0	50.0
m-Xylene & p-Xylene	CBZ	Ave	20549 3320079	67833	154208	692573	1698926	1.00 200	4.00	10.0	40.0	100
o-Xylene	CBZ	Ave	8786 1493297	32269	70771	314768	770073	0.500 100	2.00	5.00	20.0	50.0
Bromoform	CBZ	Ave	3353 680856	13047	30912	137949	353598	0.500 100	2.00	5.00	20.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Styrene	CBZ	Ave	13204 2435152	46414	106500	495324	1217506	0.500 100	2.00	5.00	20.0	50.0
Isopropylbenzene	DCB	Ave	22917 3680354	80034	177515	812234	1915293	0.500 100	2.00	5.00	20.0	50.0
Bromobenzene	DCB	Ave	6242 1011378	21606	47444	210148	501062	0.500 100	2.00	5.00	20.0	50.0
N-Propylbenzene	DCB	Ave	24084 4094027	82499	192026	847623	2034735	0.500 100	2.00	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCB	Ave	4421 739984	14777	34401	149888	369042	0.500 100	2.00	5.00	20.0	50.0
4-Ethyltoluene	DCB	Ave	19720 3613886	71201	162738	726773	1745244	0.500 100	2.00	5.00	20.0	50.0
2-Chlorotoluene	DCB	Ave	17638 2914650	58884	133013	599072	1432870	0.500 100	2.00	5.00	20.0	50.0
1,2,3-Trichloropropane	DCB	Ave	1247 246200	5332	12773	51434	124956	0.500 100	2.00	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	16138 3116080	58432	135761	599896	1479989	0.500 100	2.00	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	2322 561535	10591	26619	116992	282940	1.00 200	4.00	10.0	40.0	100
4-Chlorotoluene	DCB	Ave	15853 2669516	53613	120111	536510	1283220	0.500 100	2.00	5.00	20.0	50.0
tert-Butylbenzene	DCB	Ave	13487 2565263	49452	112885	493332	1215605	0.500 100	2.00	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	15306 3138849	56700	130409	578699	1468076	0.500 100	2.00	5.00	20.0	50.0
sec-Butylbenzene	DCB	Ave	19560 3551616	64614	149300	674715	1674217	0.500 100	2.00	5.00	20.0	50.0
4-Isopropyltoluene	DCB	Ave	15379 3096011	51078	126791	554694	1452816	0.500 100	2.00	5.00	20.0	50.0
1,3-Dichlorobenzene	DCB	Ave	9276 1722981	31134	71292	310793	792931	0.500 100	2.00	5.00	20.0	50.0
1,4-Dichlorobenzene	DCB	Ave	9870 1728167	30553	71299	314071	798104	0.500 100	2.00	5.00	20.0	50.0
p-Diethylbenzene	DCB	Ave	8109 1663910	26760	64075	280644	763364	0.500 100	2.00	5.00	20.0	50.0
Benzyl chloride	DCB	Ave	1224 351781	5740	13225	58409	161996	0.500 100	2.00	5.00	20.0	50.0
n-Butylbenzene	DCB	Ave	13599 2752763	49569	111677	481027	1268757	0.500 100	2.00	5.00	20.0	50.0
1,2-Dichlorobenzene	DCB	Ave	8750 1621958	27643	63922	283320	745107	0.500 100	2.00	5.00	20.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34085

SDG No.:

Instrument ID: MSV GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2009 15:46 Calibration End Date: 12/07/2009 21:55 Calibration ID: 5965

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetramethylbenzene	DCB	Ave	14351 3071719	44441	108054	498627	1349042	0.500 100	2.00	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	843 165546	2446	6164	25173	69700	0.500 100	2.00	5.00	20.0	50.0
Nitrobenzene	DCB	Qua	1926 661442	6945	16522	78987	249918	5.00 1000	20.0	50.0	200	500
Hexachlorobutadiene	DCB	Ave	3464 671964	11071	25815	110151	300438	0.500 100	2.00	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	7229 1420318	21078	51570	222393	616972	0.500 100	2.00	5.00	20.0	50.0
Naphthalene	DCB	Ave	13403 2733289	39413	94912	419800	1178262	0.500 100	2.00	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCB	Ave	7184 1303891	19871	47969	210307	575670	0.500 100	2.00	5.00	20.0	50.0
Dibromofluoromethane	FB	Ave	7220 1269972	23785	61052	231144	599057	0.500 100	2.00	5.00	20.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	8816 1488192	30254	74926	281627	727723	0.500 100	2.00	5.00	20.0	50.0
Toluene-d8 (Surr)	CBZ	Ave	26231 4226675	87557	205292	806941	2063254	0.500 100	2.00	5.00	20.0	50.0
4-Bromofluorobenzene	DCB	Ave	7578 1048756	25629	57665	227381	537308	0.500 100	2.00	5.00	20.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8457.D
Lab Smp Id: IC;2 Client Smp ID: IC;2
Inj Date : 07-DEC-2009 15:46 MS Autotune Date: 17-AUG-2009 09:58
Operator : D. HUMBERT Inst ID: msv.i
Smp Info : IC;2
Misc Info : : ;;; ; 8260 ; 1 ; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8260LOW.m
Meth Date : 08-Dec-2009 11:26 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 21:55 Cal File: V8468.D
Als bottle: 28 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	5.488	5.488	(1.000)	1275639	25.0000	
2	Dichlorodifluoromethane	85	1.187	1.187	(0.216)	12086	2.00000	2
3	Chloromethane	50	1.315	1.315	(0.240)	12009	2.00000	2
4	Vinyl Chloride	62	1.374	1.374	(0.250)	18525	2.00000	2
5	Bromomethane	94	1.603	1.603	(0.292)	11019	2.00000	3
6	Chloroethane	64	1.694	1.694	(0.309)	11859	2.00000	2
7	Trichlorofluoromethane	101	1.795	1.795	(0.327)	48076	2.00000	2
8	Dichlorofluoromethane	67	1.838	1.838	(0.335)	43272	2.00000	2
9	Ethyl Ether	45	2.035	2.035	(0.371)	12903	2.00000	2
10	Ethanol	45	2.105	2.105	(0.384)	10403	20.0000	21
12	Freon 123	67	2.238	2.238	(0.408)	5825	2.00000	2
13	Trichlorotrifluoroethane	101	2.227	2.227	(0.406)	23136	2.00000	2
14	1,1-Dichloroethene	96	2.190	2.190	(0.399)	17412	2.00000	2
15	Carbon Disulfide	76	2.211	2.211	(0.403)	62322	2.00000	2
16	Iodomethane	142	2.308	2.308	(0.420)	20047	2.00000	2
17	Acrolein	56	2.484	2.484	(0.453)	1362	10.0000	15
18	2-Propanol	45	2.388	2.388	(0.435)	1329	2.00000	2(TM)
19	3-Chloro-1-Propene	41	2.596	2.596	(0.473)	34047	2.00000	2
20	Methylene Chloride	84	2.697	2.697	(0.491)	22783	2.00000	2
21	Acetone	43	2.756	2.756	(0.502)	4767	2.00000	2
22	trans-1,2-Dichloroethene	96	2.857	2.857	(0.521)	23669	2.00000	2
23	Methyl Acetate	43	2.873	2.873	(0.524)	56510	2.00000	2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Methyl tert-Butyl Ether	73	2.975	2.975	(0.542)	68317	2.00000	2
	25 tert-Butyl alcohol	59	3.113	3.113	(0.567)	6496	10.0000	11(M)
	26 Acetonitrile	41	3.215	3.215	(0.586)	12928	20.0000	22
	27 Isopropyl ether	45	3.396	3.396	(0.619)	71003	2.00000	2
	28 tert-Butyl ethyl ether	59	3.791	3.791	(0.691)	78247	2.00000	2
	29 2-Chloro-1,3-Butadiene	88	3.476	3.476	(0.633)	17362	2.00000	2
	30 Acrylonitrile	53	3.540	3.540	(0.645)	9835	4.00000	4
	31 1,1-Dichloroethane	63	3.492	3.492	(0.636)	45233	2.00000	2
	32 Vinyl Acetate	43	3.791	3.791	(0.691)	50123	2.00000	2
	33 cis-1,2-Dichloroethene	96	4.074	4.074	(0.742)	25427	2.00000	2
	34 2,2-Dichloropropane	77	4.191	4.191	(0.764)	43225	2.00000	2
	35 Bromochloromethane	128	4.288	4.288	(0.781)	12494	2.00000	2
	37 Cyclohexane	84	4.298	4.298	(0.783)	34143	2.00000	2
	38 Chloroform	83	4.389	4.389	(0.800)	45420	2.00000	2
	39 Ethyl Acetate	43	4.554	4.554	(0.830)	3462	4.00000	4(M)
	40 Methyl Acrylate	55	4.544	4.544	(0.828)	15341	2.00000	2
$	41 Dibromofluoromethane	111	4.586	4.586	(0.836)	23785	2.00000	2
	42 Tetrahydrofuran	42	4.554	4.554	(0.830)	8256	4.00000	4
	43 Carbon Tetrachloride	117	4.533	4.533	(0.826)	42647	2.00000	2
	44 1,1,1-Trichloroethane	97	4.597	4.597	(0.838)	46368	2.00000	2
	45 2-Butanone	43	4.730	4.730	(0.862)	6835	2.00000	2(H)
	46 1,1-Dichloropropene	75	4.746	4.746	(0.865)	35063	2.00000	2
	47 tert-Amyl methyl ether	73	5.184	5.184	(0.945)	64777	2.00000	2
	49 1-Chlorobutane	56	4.805	4.805	(0.876)	50948	2.00000	2
	50 Heptane	43	5.029	5.029	(0.916)	27898	2.00000	2
	51 Propionitrile	54	5.035	5.035	(0.917)	14847	20.0000	20
	52 Benzene	78	5.013	5.013	(0.913)	96335	2.00000	2
	53 2-Methyl-2-Propenenitrile	41	5.040	5.040	(0.918)	27191	2.00000	2
	54 Isobutyl alcohol	42	5.173	5.173	(0.943)	3280	20.0000	23
$	55 1,2-Dichloroethane-d4	65	5.152	5.152	(0.939)	30254	2.00000	2
	56 1,2-Dichloroethane	62	5.232	5.232	(0.953)	36687	2.00000	2
	59 Methyl Cyclohexane	83	5.675	5.675	(1.034)	42826	2.00000	2
	60 Trichloroethene	130	5.686	5.686	(1.036)	27053	2.00000	2
	63 Dibromomethane	93	6.145	6.145	(1.120)	14127	2.00000	2
	64 1,2-Dichloropropane	63	6.273	6.273	(1.143)	24234	2.00000	2(T)
	65 Bromodichloromethane	83	6.369	6.369	(1.160)	31984	2.00000	2
	66 Methyl Methacrylate	69	6.604	6.604	(1.203)	13058	2.00000	2
	67 1,4-Dioxane	58	6.652	6.652	(1.212)	645	20.0000	20
	69 2-Chloroethylvinylether	63	7.079	7.079	(1.290)	12196	2.00000	2
	70 cis-1,3-Dichloropropene	75	7.121	7.121	(1.298)	37928	2.00000	2
	71 Chloroacetonitrile	48	7.586	7.586	(1.382)	3387	20.0000	20
	72 2-Nitropropane	41	7.666	7.666	(1.397)	9071	4.00000	4
	73 trans-1,3-Dichloropropene	75	7.927	7.927	(1.444)	35995	2.00000	2
	74 1,1,2-Trichloroethane	97	8.114	8.114	(1.478)	18955	2.00000	2
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	800611	25.0000	
	76 Toluene	91	7.404	7.404	(0.800)	99190	2.00000	2
$	77 Toluene-d8	98	7.346	7.346	(0.794)	87557	2.00000	2
	78 1,1-Dichloro-2-propanone	43	7.692	7.692	(0.832)	32079	10.0000	9
	79 4-Methyl-2-Pentanone	43	7.901	7.901	(0.854)	12456	2.00000	2
	80 Tetrachloroethene	164	7.874	7.874	(0.851)	21777	2.00000	2
	81 Ethyl Methacrylate	69	8.189	8.189	(0.885)	19821	2.00000	2
	82 Dibromochloromethane	129	8.322	8.322	(0.900)	22659	2.00000	2
	83 1,3-Dichloropropane	76	8.440	8.440	(0.912)	32369	2.00000	2
	84 1,2-Dibromoethane	107	8.584	8.584	(0.928)	20184	2.00000	2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
86	2-Hexanone	43	8.957	8.957	(0.968)	8257	2.00000	2
87	1-Chlorohexane	91	9.299	9.299	(1.005)	22027	2.00000	2
88	Chlorobenzene	112	9.272	9.272	(1.002)	57637	2.00000	2
89	1,1,1,2-Tetrachloroethane	131	9.368	9.368	(1.013)	23127	2.00000	2
90	Ethylbenzene	106	9.336	9.336	(1.009)	30662	2.00000	2
91	Xylene (total)mp	106	9.512	9.512	(1.028)	67833	4.00000	4
92	Xylene (total)o	106	9.966	9.966	(1.077)	32269	2.00000	2
93	Styrene	104	10.019	10.019	(1.083)	46414	2.00000	2
94	Bromoform	173	10.014	10.014	(1.082)	13047	2.00000	2
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	293774	25.0000	
96	Isopropylbenzene	105	10.292	10.292	(0.896)	80034	2.00000	2
97	Bromobenzene	156	10.612	10.612	(0.924)	21606	2.00000	2
98	1,1,2,2-Tetrachloroethane	83	10.740	10.740	(0.935)	14777	2.00000	2
99	4-Ethyltoluene	105	10.777	10.777	(0.938)	71201	2.00000	2
100	1,2,3-Trichloropropane	110	10.836	10.836	(0.943)	5332	2.00000	2
101	trans-1,4-Dichloro-2-Butene	53	10.889	10.889	(0.948)	10591	4.00000	4
102	n-Propylbenzene	91	10.676	10.676	(0.929)	82499	2.00000	2
103	2-Chlorotoluene	91	10.793	10.793	(0.940)	58884	2.00000	2
104	4-Chlorotoluene	91	10.937	10.937	(0.952)	53613	2.00000	2
105	1,3,5-Trimethylbenzene	105	10.857	10.857	(0.945)	58432	2.00000	2
106	tert-Butylbenzene	119	11.124	11.124	(0.968)	49452	2.00000	2
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	56700	2.00000	2
108	sec-Butylbenzene	105	11.274	11.274	(0.981)	64614	2.00000	2
109	4-Isopropyltoluene	119	11.396	11.396	(0.992)	51078	2.00000	2
110	1,3-Dichlorobenzene	146	11.428	11.428	(0.995)	31134	2.00000	2
111	1,4-Dichlorobenzene	146	11.503	11.503	(1.001)	30553	2.00000	2
112	1,2-Dichlorobenzene	146	11.829	11.829	(1.030)	27643	2.00000	2
113	Benzyl Chloride	126	11.706	11.706	(1.019)	5740	2.00000	2
114	1,4-Diethylbenzene	119	11.684	11.684	(1.017)	26760	2.00000	2
115	n-Butylbenzene	91	11.727	11.727	(1.021)	49569	2.00000	2
118	1,2,4,5-Tetramethylbenzene	119	12.298	12.298	(1.071)	44441	2.00000	2
119	1,2-Dibromo-3-chloropropane	75	12.426	12.426	(1.082)	2446	2.00000	2
120	Nitrobenzene	77	12.832	12.832	(1.117)	6945	20.0000	24
121	1,2,4-Trichlorobenzene	180	12.923	12.923	(1.125)	21078	2.00000	2
122	Hexachlorobutadiene	225	12.917	12.917	(1.125)	11071	2.00000	2
123	Naphthalene	128	13.152	13.152	(1.145)	39413	2.00000	2
124	1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	19871	2.00000	2
$ 125	Bromofluorobenzene	95	10.532	10.532	(0.917)	25629	2.00000	2
M 126	1,2-Dichloroethene (total)	100				49096	4.00000	4
M 127	Xylene (total)	100				100102	6.00000	6

QC Flag Legend

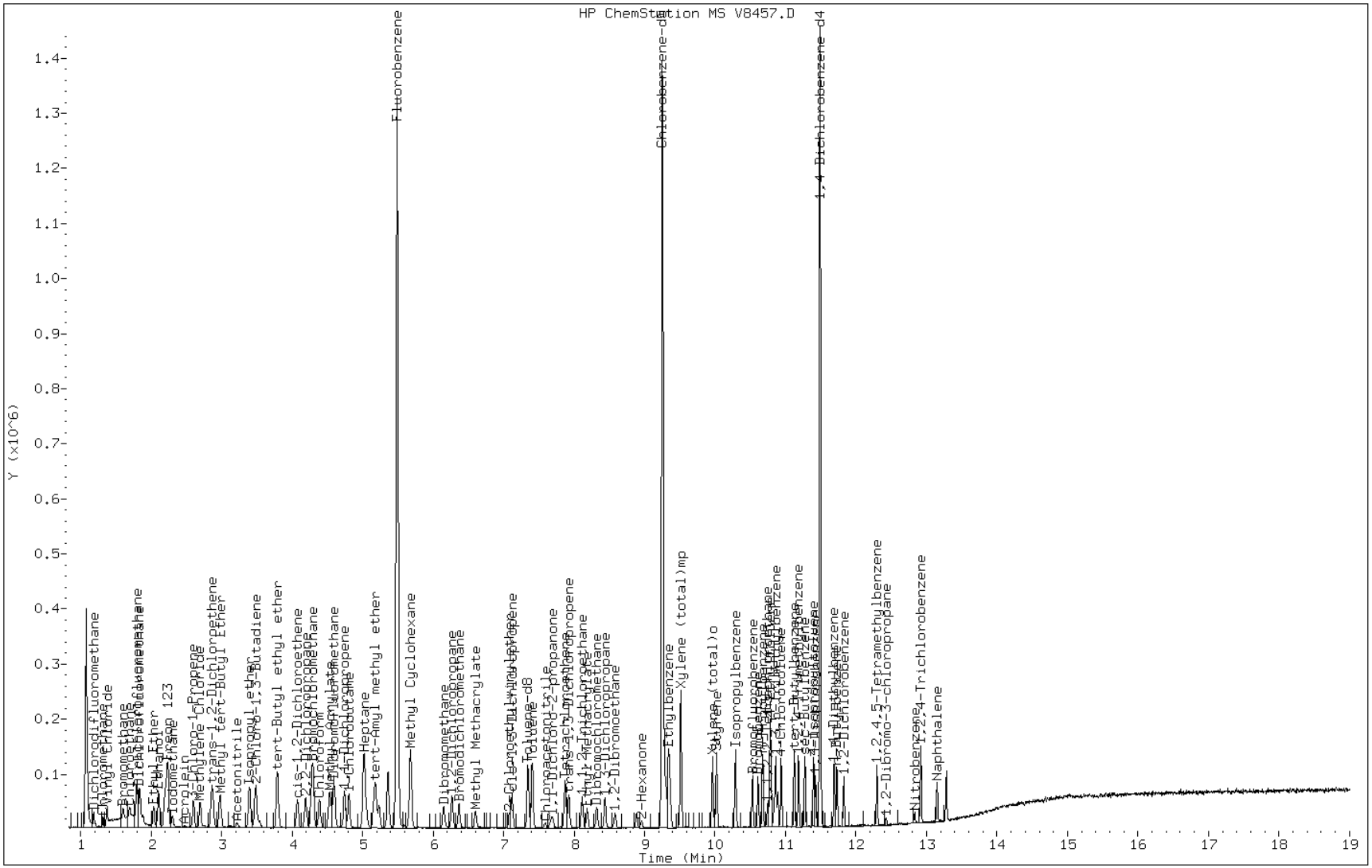
T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: V8457.D

Date: 07-DEC-2009 15:46

Client ID: IC;2 Instrument: msv.i

Sample Info: IC;2 Operator: D. HUMBERT



Manual Integration Report

Data File: V8457.D
Inj. Date and Time: 07-DEC-2009 15:46
Instrument ID: msv.i
Client ID: IC;2
Compound: 25 tert-Butyl alcohol
CAS #: 75-65-0
Report Date: 12/09/2009

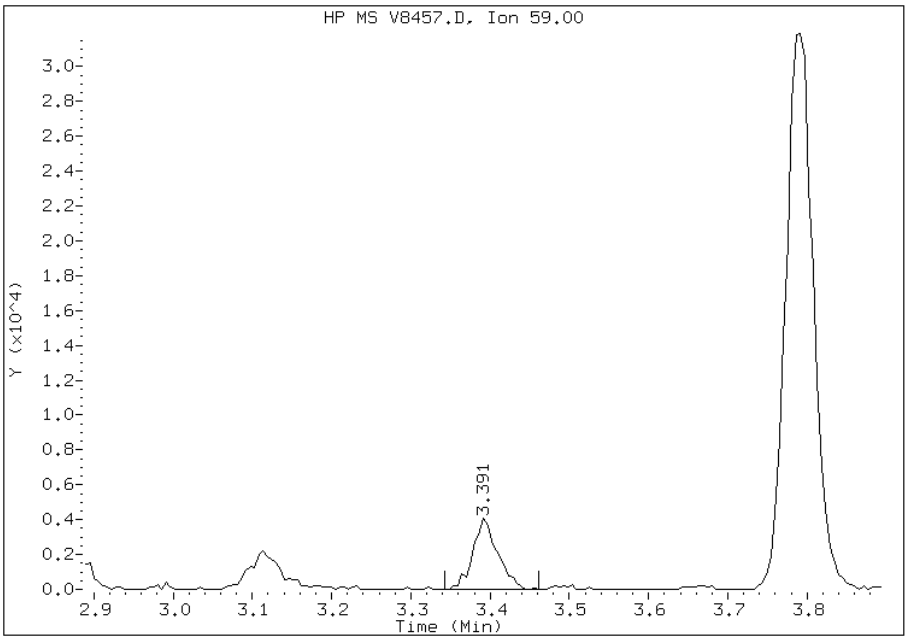
Processing Integration Results

RT: 3.39

Response: 8711

Amount: 10

Conc: 10



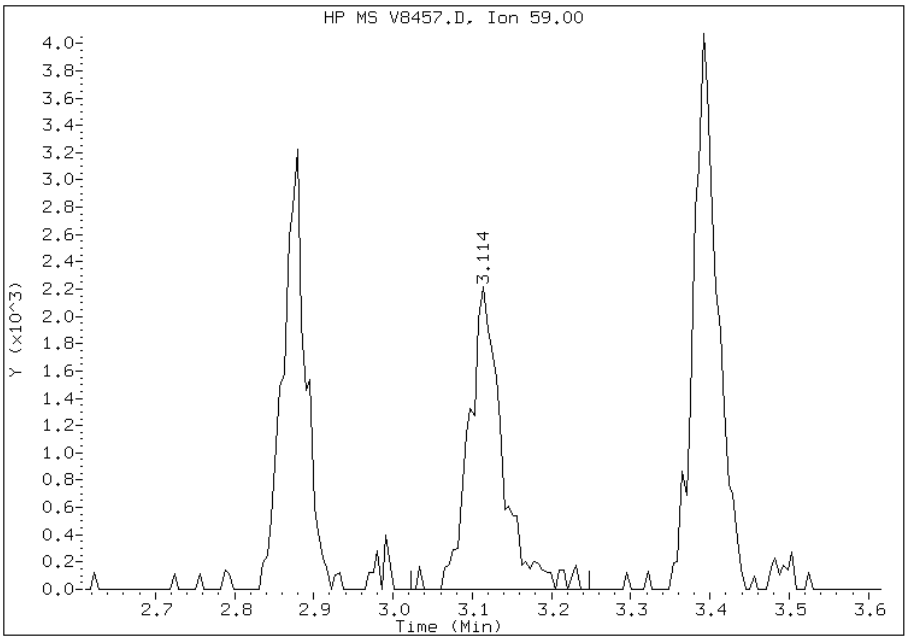
Manual Integration Results

RT: 3.11

Response: 6496

Amount: 11

Conc: 11



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

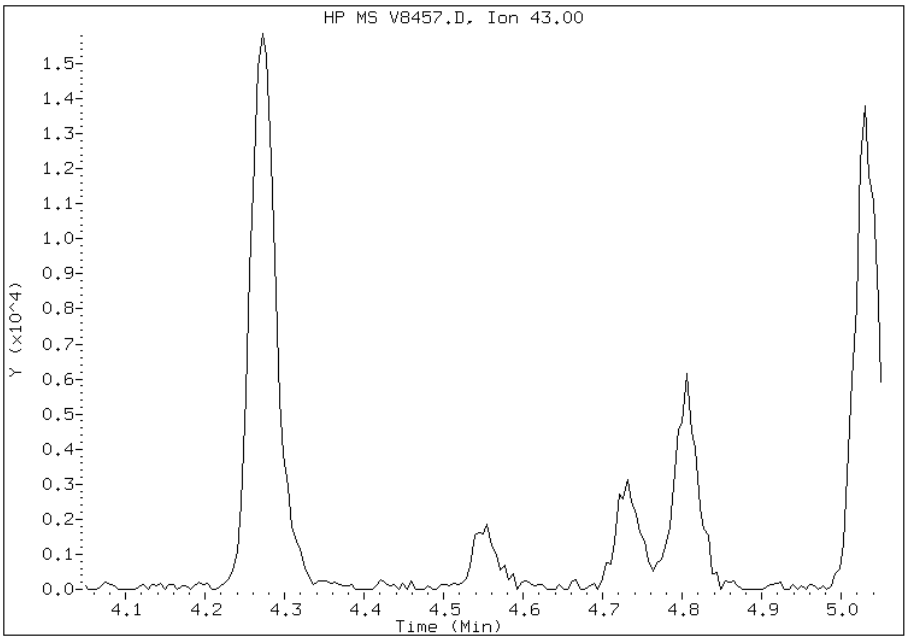
Manual Integration Report

Data File: V8457.D
Inj. Date and Time: 07-DEC-2009 15:46
Instrument ID: msv.i
Client ID: IC;2
Compound: 39 Ethyl Acetate
CAS #: 141-78-6
Report Date: 12/09/2009

Processing Integration Results

Not Detected

Expected RT: 4.55



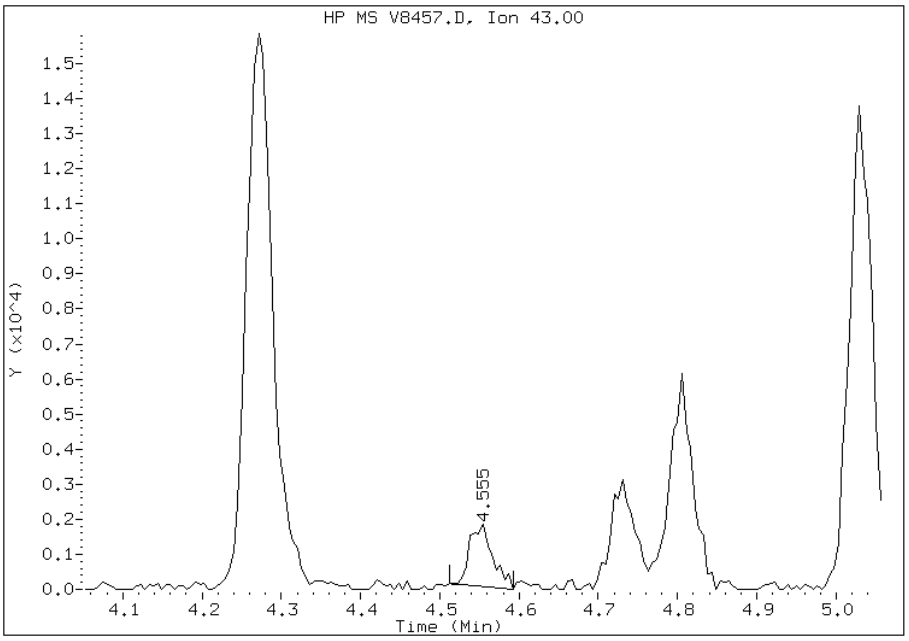
Manual Integration Results

RT: 4.55

Response: 3462

Amount: 4

Conc: 4



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: V8457.D
Inj. Date and Time: 07-DEC-2009 15:46
Instrument ID: msv.i
Client ID: IC;2
Compound: 18 2-Propanol
CAS #: 67-63-0
Report Date: 12/09/2009

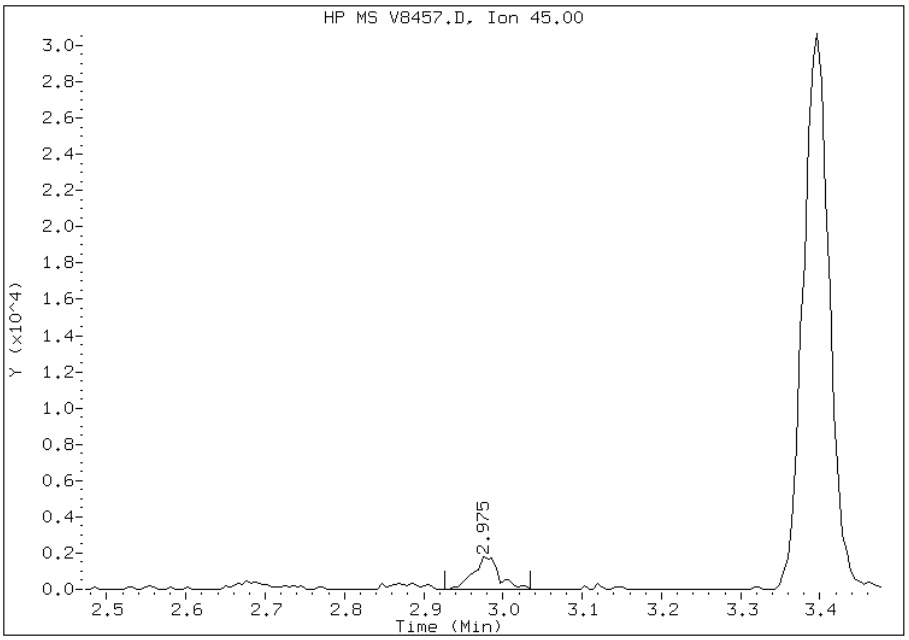
Processing Integration Results

RT: 2.98

Response: 3998

Amount: 2

Conc: 2



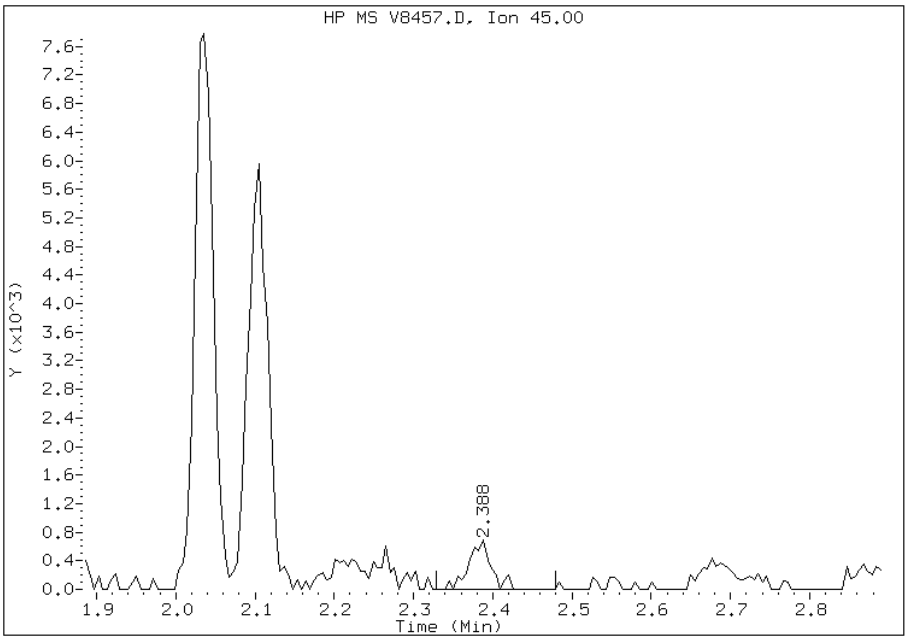
Manual Integration Results

RT: 2.39

Response: 1329

Amount: 2

Conc: 2



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8458.D
Lab Smp Id: IC;5 Client Smp ID: IC;5
Inj Date : 07-DEC-2009 17:00 MS Autotune Date: 17-AUG-2009 09:58
Operator : D. HUMBERT Inst ID: msv.i
Smp Info : IC;5
Misc Info : : ;;; ; 8260 ; 1 ; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8260LOW.m
Meth Date : 08-Dec-2009 11:26 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 15:46 Cal File: V8457.D
Als bottle: 28 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	5.488	5.488	(1.000)	1287313	25.0000	
2	Dichlorodifluoromethane	85	1.187	1.187	(0.216)	37343	5.00000	5
3	Chloromethane	50	1.315	1.315	(0.240)	30599	5.00000	5
4	Vinyl Chloride	62	1.374	1.374	(0.250)	50625	5.00000	5
5	Bromomethane	94	1.603	1.603	(0.292)	25012	5.00000	5
6	Chloroethane	64	1.694	1.694	(0.309)	30553	5.00000	5
7	Trichlorofluoromethane	101	1.801	1.801	(0.328)	121962	5.00000	5
8	Dichlorofluoromethane	67	1.838	1.838	(0.335)	102620	5.00000	5
9	Ethyl Ether	45	2.035	2.035	(0.371)	29863	5.00000	5
10	Ethanol	45	2.105	2.105	(0.384)	24000	50.0000	47
12	Freon 123	67	2.244	2.244	(0.409)	13567	5.00000	5
13	Trichlorotrifluoroethane	101	2.233	2.233	(0.407)	57719	5.00000	5
14	1,1-Dichloroethene	96	2.190	2.190	(0.399)	42873	5.00000	5
15	Carbon Disulfide	76	2.212	2.212	(0.403)	159156	5.00000	5
16	Iodomethane	142	2.302	2.302	(0.420)	51980	5.00000	4
17	Acrolein	56	2.468	2.468	(0.450)	3145	25.0000	26
18	2-Propanol	45	2.382	2.382	(0.434)	2899	5.00000	5(M)
19	3-Chloro-1-Propene	41	2.601	2.601	(0.474)	81208	5.00000	5
20	Methylene Chloride	84	2.697	2.697	(0.491)	53529	5.00000	5
21	Acetone	43	2.751	2.751	(0.501)	10899	5.00000	5
22	trans-1,2-Dichloroethene	96	2.857	2.857	(0.521)	55409	5.00000	5
23	Methyl Acetate	43	2.873	2.873	(0.524)	141516	5.00000	5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Methyl tert-Butyl Ether	73	2.975	2.975	(0.542)	163673	5.00000	5
	25 tert-Butyl alcohol	59	3.103	3.103	(0.565)	12475	25.0000	22(H)
	26 Acetonitrile	41	3.210	3.210	(0.585)	26966	50.0000	46
	27 Isopropyl ether	45	3.396	3.396	(0.619)	170618	5.00000	5
	28 tert-Butyl ethyl ether	59	3.791	3.791	(0.691)	184697	5.00000	5
	29 2-Chloro-1,3-Butadiene	88	3.471	3.471	(0.632)	43777	5.00000	5
	30 Acrylonitrile	53	3.535	3.535	(0.644)	27632	10.0000	10
	31 1,1-Dichloroethane	63	3.492	3.492	(0.636)	106248	5.00000	5
	32 Vinyl Acetate	43	3.786	3.786	(0.690)	125003	5.00000	5
	33 cis-1,2-Dichloroethene	96	4.074	4.074	(0.742)	61838	5.00000	5
	34 2,2-Dichloropropane	77	4.192	4.192	(0.764)	106653	5.00000	5
	35 Bromochloromethane	128	4.282	4.282	(0.780)	30312	5.00000	5
	37 Cyclohexane	84	4.298	4.298	(0.783)	81299	5.00000	5
	38 Chloroform	83	4.389	4.389	(0.800)	109829	5.00000	5
	39 Ethyl Acetate	43	4.549	4.549	(0.829)	9011	10.0000	10
	40 Methyl Acrylate	55	4.538	4.538	(0.827)	38006	5.00000	5
$	41 Dibromofluoromethane	111	4.586	4.586	(0.836)	61052	5.00000	5
	42 Tetrahydrofuran	42	4.554	4.554	(0.830)	20264	10.0000	10
	43 Carbon Tetrachloride	117	4.528	4.528	(0.825)	99932	5.00000	5
	44 1,1,1-Trichloroethane	97	4.602	4.602	(0.839)	112349	5.00000	5
	45 2-Butanone	43	4.725	4.725	(0.861)	15355	5.00000	5(H)
	46 1,1-Dichloropropene	75	4.741	4.741	(0.864)	84863	5.00000	5
	47 tert-Amyl methyl ether	73	5.184	5.184	(0.945)	151120	5.00000	5
	49 1-Chlorobutane	56	4.805	4.805	(0.876)	120030	5.00000	5
	50 Heptane	43	5.035	5.035	(0.917)	66710	5.00000	5
	51 Propionitrile	54	5.029	5.029	(0.916)	35861	50.0000	49
	52 Benzene	78	5.008	5.008	(0.912)	228578	5.00000	5
	53 2-Methyl-2-Propenenitrile	41	5.035	5.035	(0.917)	68102	5.00000	5
	54 Isobutyl alcohol	42	5.184	5.184	(0.945)	6892	50.0000	47
$	55 1,2-Dichloroethane-d4	65	5.163	5.163	(0.941)	74926	5.00000	5
	56 1,2-Dichloroethane	62	5.232	5.232	(0.953)	85819	5.00000	5
	59 Methyl Cyclohexane	83	5.670	5.670	(1.033)	101234	5.00000	5
	60 Trichloroethene	130	5.681	5.681	(1.035)	64966	5.00000	5
	63 Dibromomethane	93	6.150	6.150	(1.121)	33521	5.00000	5
	64 1,2-Dichloropropane	63	6.268	6.268	(1.142)	58230	5.00000	5
	65 Bromodichloromethane	83	6.369	6.369	(1.160)	79074	5.00000	5
	66 Methyl Methacrylate	69	6.598	6.598	(1.202)	31342	5.00000	5
	67 1,4-Dioxane	58	6.652	6.652	(1.212)	2510	50.0000	59(M)
	69 2-Chloroethylvinylether	63	7.079	7.079	(1.290)	27803	5.00000	5
	70 cis-1,3-Dichloropropene	75	7.121	7.121	(1.298)	91941	5.00000	5
	71 Chloroacetonitrile	48	7.586	7.586	(1.382)	8026	50.0000	48
	72 2-Nitropropane	41	7.666	7.666	(1.397)	20970	10.0000	9
	73 trans-1,3-Dichloropropene	75	7.927	7.927	(1.444)	85488	5.00000	5
	74 1,1,2-Trichloroethane	97	8.114	8.114	(1.478)	44975	5.00000	5
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	783405	25.0000	
	76 Toluene	91	7.404	7.404	(0.800)	225974	5.00000	4
$	77 Toluene-d8	98	7.346	7.346	(0.794)	205292	5.00000	5
	78 1,1-Dichloro-2-propanone	43	7.693	7.693	(0.832)	77970	25.0000	23
	79 4-Methyl-2-Pentanone	43	7.895	7.895	(0.853)	29509	5.00000	4
	80 Tetrachloroethene	164	7.869	7.869	(0.851)	51642	5.00000	4
	81 Ethyl Methacrylate	69	8.184	8.184	(0.885)	46990	5.00000	4
	82 Dibromochloromethane	129	8.322	8.322	(0.900)	54268	5.00000	5
	83 1,3-Dichloropropane	76	8.434	8.434	(0.912)	77567	5.00000	5
	84 1,2-Dibromoethane	107	8.578	8.578	(0.927)	46056	5.00000	5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
86	2-Hexanone	43	8.957	8.957	(0.968)	17946	5.00000	4
87	1-Chlorohexane	91	9.304	9.304	(1.006)	49715	5.00000	4
88	Chlorobenzene	112	9.272	9.272	(1.002)	128685	5.00000	4
89	1,1,1,2-Tetrachloroethane	131	9.363	9.363	(1.012)	54408	5.00000	5
90	Ethylbenzene	106	9.336	9.336	(1.009)	69308	5.00000	4
91	Xylene (total)mp	106	9.518	9.518	(1.029)	154208	10.0000	9
92	Xylene (total)o	106	9.966	9.966	(1.077)	70771	5.00000	4
93	Styrene	104	10.019	10.019	(1.083)	106500	5.00000	4
94	Bromoform	173	10.019	10.019	(1.083)	30912	5.00000	5
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	284395	25.0000	
96	Isopropylbenzene	105	10.292	10.292	(0.896)	177515	5.00000	5
97	Bromobenzene	156	10.612	10.612	(0.924)	47444	5.00000	5
98	1,1,2,2-Tetrachloroethane	83	10.740	10.740	(0.935)	34401	5.00000	5
99	4-Ethyltoluene	105	10.783	10.783	(0.939)	162738	5.00000	5
100	1,2,3-Trichloropropane	110	10.841	10.841	(0.944)	12773	5.00000	5
101	trans-1,4-Dichloro-2-Butene	53	10.889	10.889	(0.948)	26619	10.0000	10
102	n-Propylbenzene	91	10.676	10.676	(0.929)	192026	5.00000	5
103	2-Chlorotoluene	91	10.788	10.788	(0.939)	133013	5.00000	5
104	4-Chlorotoluene	91	10.937	10.937	(0.952)	120111	5.00000	5
105	1,3,5-Trimethylbenzene	105	10.863	10.863	(0.946)	135761	5.00000	5
106	tert-Butylbenzene	119	11.124	11.124	(0.968)	112885	5.00000	5
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	130409	5.00000	5
108	sec-Butylbenzene	105	11.274	11.274	(0.981)	149300	5.00000	5
109	4-Isopropyltoluene	119	11.396	11.396	(0.992)	126791	5.00000	5
110	1,3-Dichlorobenzene	146	11.428	11.428	(0.995)	71292	5.00000	5
111	1,4-Dichlorobenzene	146	11.503	11.503	(1.001)	71299	5.00000	4
112	1,2-Dichlorobenzene	146	11.829	11.829	(1.030)	63922	5.00000	4
113	Benzyl Chloride	126	11.701	11.701	(1.019)	13225	5.00000	5
114	1,4-Diethylbenzene	119	11.690	11.690	(1.018)	64075	5.00000	4
115	n-Butylbenzene	91	11.727	11.727	(1.021)	111677	5.00000	5
118	1,2,4,5-Tetramethylbenzene	119	12.298	12.298	(1.071)	108054	5.00000	4
119	1,2-Dibromo-3-chloropropane	75	12.432	12.432	(1.082)	6164	5.00000	5
120	Nitrobenzene	77	12.832	12.832	(1.117)	16522	50.0000	47
121	1,2,4-Trichlorobenzene	180	12.923	12.923	(1.125)	51570	5.00000	4
122	Hexachlorobutadiene	225	12.917	12.917	(1.125)	25815	5.00000	4
123	Naphthalene	128	13.152	13.152	(1.145)	94912	5.00000	4
124	1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	47969	5.00000	4
$ 125	Bromofluorobenzene	95	10.532	10.532	(0.917)	57665	5.00000	5
M 126	1,2-Dichloroethene (total)	100				117247	10.0000	10
M 127	Xylene (total)	100				224979	15.0000	14

QC Flag Legend

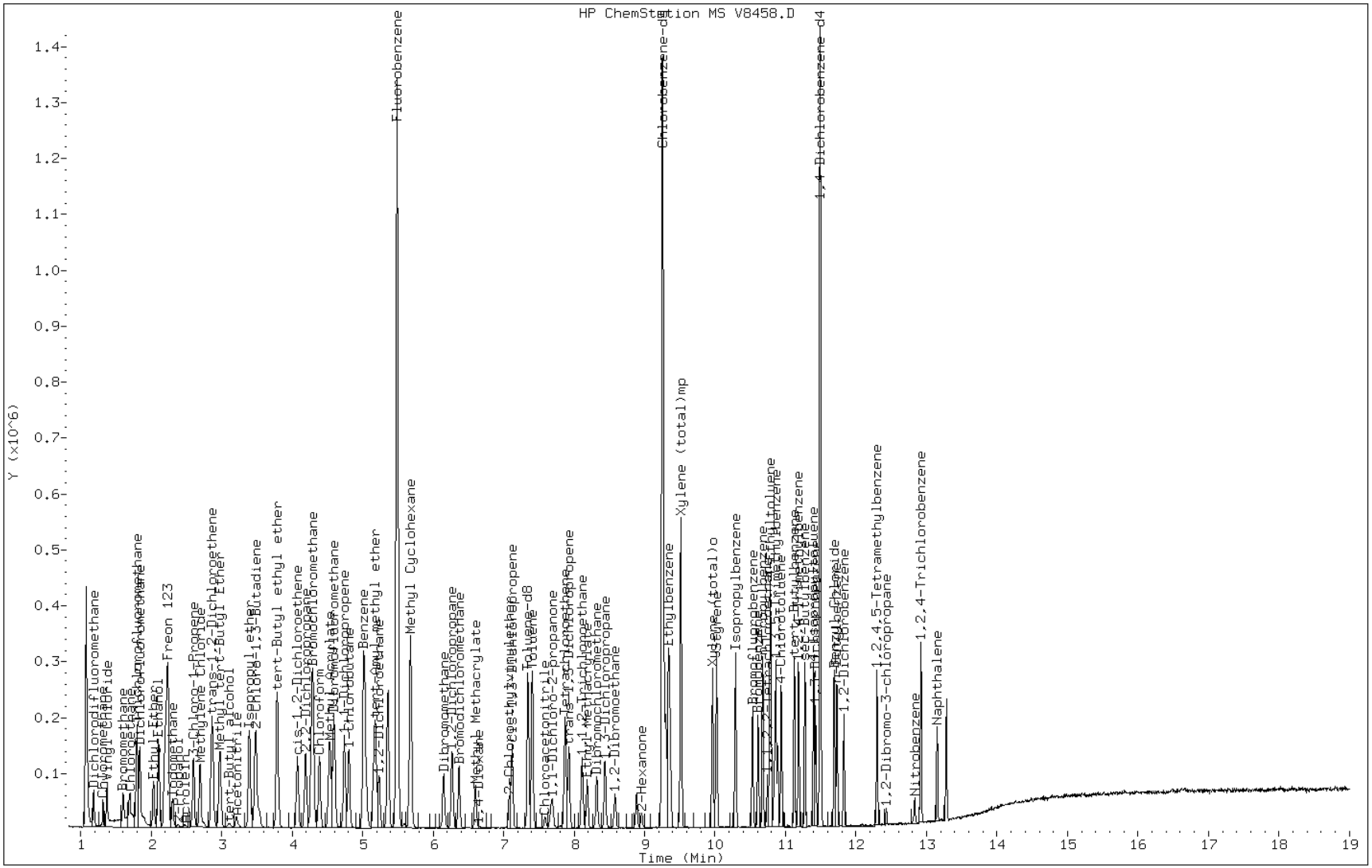
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: V8458.D

Date: 07-DEC-2009 17:00

Client ID: IC;5 Instrument: msv.i

Sample Info: IC;5 Operator: D. HUMBERT



Manual Integration Report

Data File: V8458.D
Inj. Date and Time: 07-DEC-2009 17:00
Instrument ID: msv.i
Client ID: IC;5
Compound: 67 1,4-Dioxane
CAS #: 123-91-1
Report Date: 12/09/2009

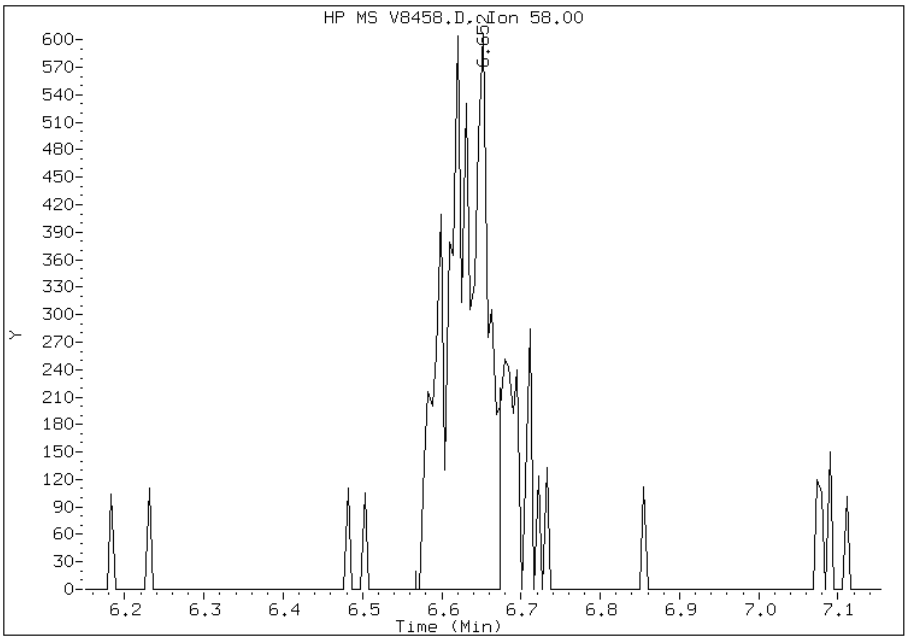
Processing Integration Results

RT: 6.65

Response: 2002

Amount: 51

Conc: 51



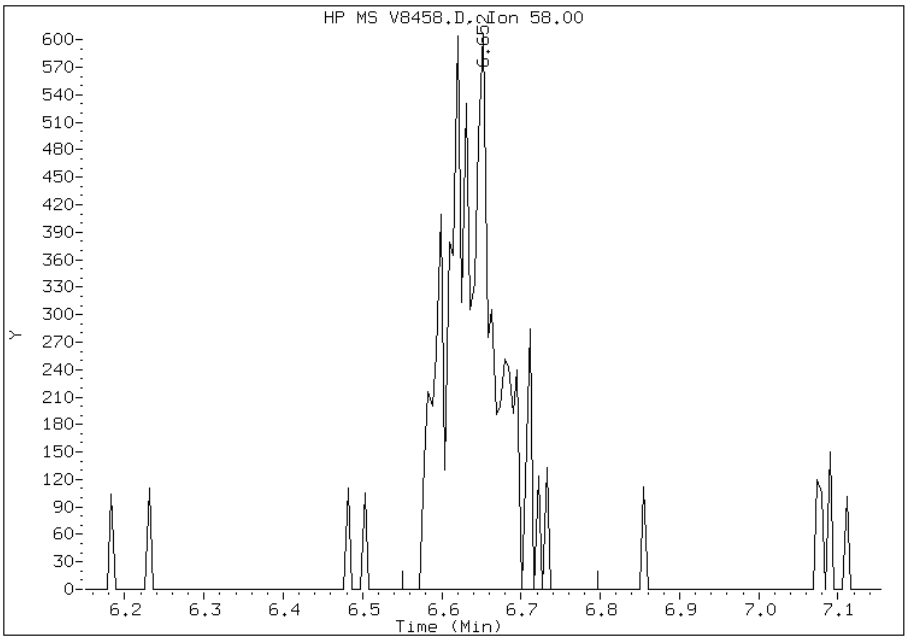
Manual Integration Results

RT: 6.65

Response: 2510

Amount: 59

Conc: 59



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: V8458.D
Inj. Date and Time: 07-DEC-2009 17:00
Instrument ID: msv.i
Client ID: IC;5
Compound: 18 2-Propanol
CAS #: 67-63-0
Report Date: 12/09/2009

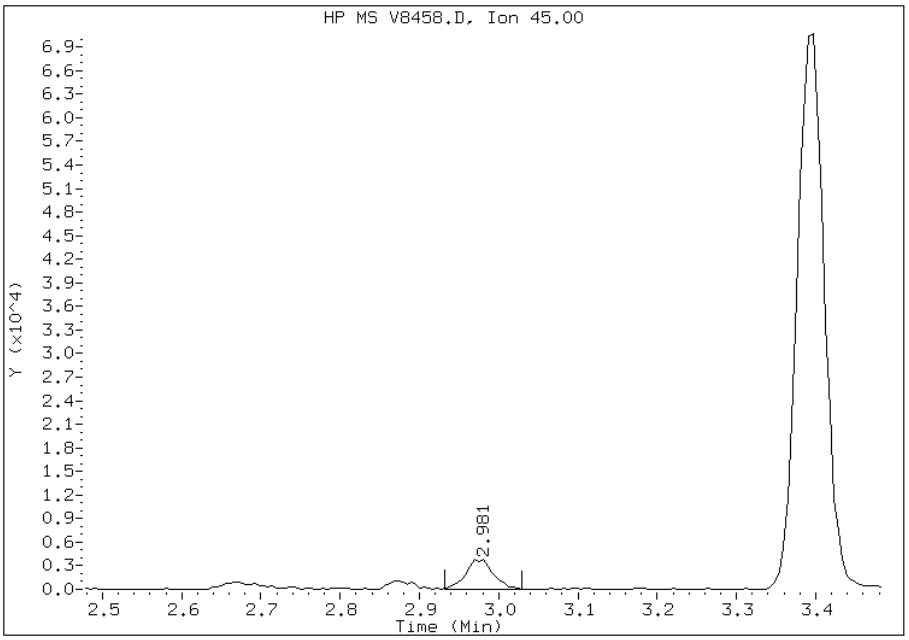
Processing Integration Results

RT: 2.98

Response: 9102

Amount: 6

Conc: 6



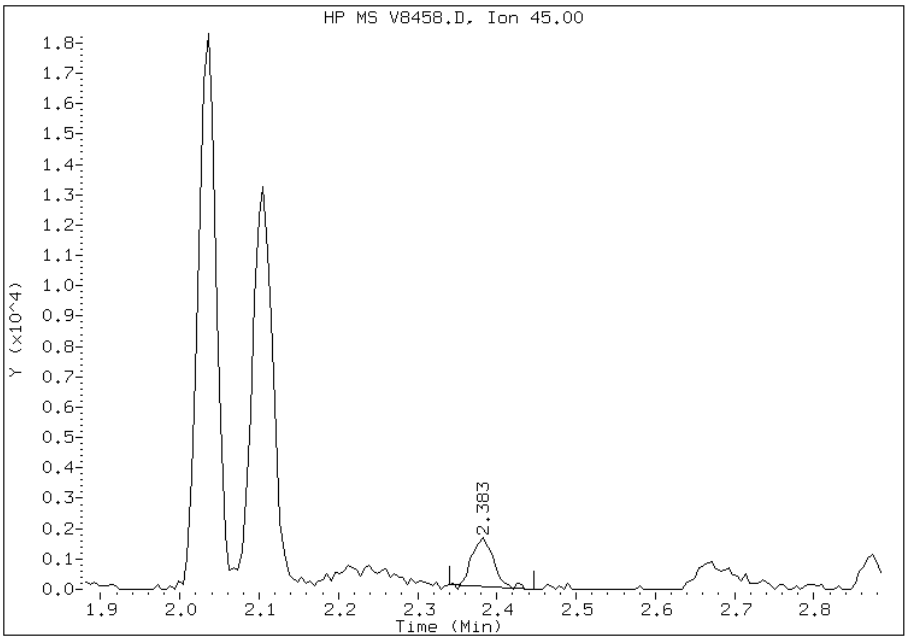
Manual Integration Results

RT: 2.38

Response: 2899

Amount: 5

Conc: 5



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8459.D
Lab Smp Id: IC;20 Client Smp ID: IC;20
Inj Date : 07-DEC-2009 17:33 MS Autotune Date: 17-AUG-2009 09:58
Operator : D. HUMBERT Inst ID: msv.i
Smp Info : IC;20
Misc Info : : ;;; ; 8260 ; 1 ; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8260LOW.m
Meth Date : 08-Dec-2009 11:26 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 17:00 Cal File: V8458.D
Als bottle: 29 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	5.488	5.488	(1.000)	1276749	25.0000	
2	Dichlorodifluoromethane	85	1.187	1.187	(0.216)	150792	20.0000	22
3	Chloromethane	50	1.315	1.315	(0.240)	128927	20.0000	20
4	Vinyl Chloride	62	1.374	1.374	(0.250)	204166	20.0000	21
5	Bromomethane	94	1.603	1.603	(0.292)	97495	20.0000	19
6	Chloroethane	64	1.694	1.694	(0.309)	126964	20.0000	21
7	Trichlorofluoromethane	101	1.795	1.795	(0.327)	511967	20.0000	21
8	Dichlorofluoromethane	67	1.838	1.838	(0.335)	410843	20.0000	20
9	Ethyl Ether	45	2.035	2.035	(0.371)	124470	20.0000	20
10	Ethanol	45	2.105	2.105	(0.384)	101312	200.000	200
12	Freon 123	67	2.233	2.233	(0.407)	54141	20.0000	18
13	Trichlorotrifluoroethane	101	2.228	2.228	(0.406)	240172	20.0000	20
14	1,1-Dichloroethene	96	2.190	2.190	(0.399)	178961	20.0000	20
15	Carbon Disulfide	76	2.212	2.212	(0.403)	672350	20.0000	21
16	Iodomethane	142	2.308	2.308	(0.421)	266908	20.0000	20
17	Acrolein	56	2.473	2.473	(0.451)	13517	100.000	93
18	2-Propanol	45	2.377	2.377	(0.433)	10547	20.0000	18(M)
19	3-Chloro-1-Propene	41	2.601	2.601	(0.474)	342437	20.0000	20
20	Methylene Chloride	84	2.692	2.692	(0.491)	213826	20.0000	20
21	Acetone	43	2.745	2.745	(0.500)	45713	20.0000	20
22	trans-1,2-Dichloroethene	96	2.857	2.857	(0.521)	232528	20.0000	20
23	Methyl Acetate	43	2.873	2.873	(0.524)	597688	20.0000	21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Methyl tert-Butyl Ether	73	2.975	2.975	(0.542)	713663	20.0000	21
	25 tert-Butyl alcohol	59	3.108	3.108	(0.566)	54771	100.000	95(H)
	26 Acetonitrile	41	3.210	3.210	(0.585)	113852	200.000	200
	27 Isopropyl ether	45	3.396	3.396	(0.619)	734355	20.0000	20
	28 tert-Butyl ethyl ether	59	3.791	3.791	(0.691)	794758	20.0000	20
	29 2-Chloro-1,3-Butadiene	88	3.476	3.476	(0.633)	185191	20.0000	20
	30 Acrylonitrile	53	3.535	3.535	(0.644)	106967	40.0000	40
	31 1,1-Dichloroethane	63	3.492	3.492	(0.636)	443719	20.0000	20
	32 Vinyl Acetate	43	3.786	3.786	(0.690)	523926	20.0000	21
	33 cis-1,2-Dichloroethene	96	4.074	4.074	(0.742)	254820	20.0000	20
	34 2,2-Dichloropropane	77	4.192	4.192	(0.764)	439727	20.0000	20
	35 Bromochloromethane	128	4.282	4.282	(0.780)	127531	20.0000	20
	37 Cyclohexane	84	4.298	4.298	(0.783)	352333	20.0000	20
	38 Chloroform	83	4.389	4.389	(0.800)	467795	20.0000	20
	39 Ethyl Acetate	43	4.549	4.549	(0.829)	33089	40.0000	37
	40 Methyl Acrylate	55	4.544	4.544	(0.828)	164222	20.0000	20
$	41 Dibromofluoromethane	111	4.581	4.581	(0.835)	231144	20.0000	19
	42 Tetrahydrofuran	42	4.544	4.544	(0.828)	86403	40.0000	42
	43 Carbon Tetrachloride	117	4.528	4.528	(0.825)	425349	20.0000	20
	44 1,1,1-Trichloroethane	97	4.597	4.597	(0.838)	464486	20.0000	20
	45 2-Butanone	43	4.725	4.725	(0.861)	62958	20.0000	20(H)
	46 1,1-Dichloropropene	75	4.741	4.741	(0.864)	361218	20.0000	20
	47 tert-Amyl methyl ether	73	5.184	5.184	(0.945)	667595	20.0000	21
	49 1-Chlorobutane	56	4.805	4.805	(0.876)	502449	20.0000	20
	50 Heptane	43	5.029	5.029	(0.916)	278959	20.0000	20
	51 Propionitrile	54	5.029	5.029	(0.916)	149904	200.000	200
	52 Benzene	78	5.013	5.013	(0.913)	952677	20.0000	20
	53 2-Methyl-2-Propenenitrile	41	5.035	5.035	(0.917)	280900	20.0000	20
	54 Isobutyl alcohol	42	5.184	5.184	(0.945)	27970	200.000	190
$	55 1,2-Dichloroethane-d4	65	5.158	5.158	(0.940)	281627	20.0000	19
	56 1,2-Dichloroethane	62	5.232	5.232	(0.953)	361861	20.0000	20
	59 Methyl Cyclohexane	83	5.675	5.675	(1.034)	429575	20.0000	20
	60 Trichloroethene	130	5.686	5.686	(1.036)	273977	20.0000	20
	63 Dibromomethane	93	6.150	6.150	(1.121)	146542	20.0000	21
	64 1,2-Dichloropropane	63	6.268	6.268	(1.142)	248986	20.0000	20
	65 Bromodichloromethane	83	6.369	6.369	(1.160)	342890	20.0000	20
	66 Methyl Methacrylate	69	6.599	6.599	(1.202)	139191	20.0000	21
	67 1,4-Dioxane	58	6.647	6.647	(1.211)	8710	200.000	190(M)
	69 2-Chloroethylvinylether	63	7.079	7.079	(1.290)	119750	20.0000	20
	70 cis-1,3-Dichloropropene	75	7.122	7.122	(1.298)	396557	20.0000	21
	71 Chloroacetonitrile	48	7.591	7.591	(1.383)	33675	200.000	200
	72 2-Nitropropane	41	7.666	7.666	(1.397)	89100	40.0000	40
	73 trans-1,3-Dichloropropene	75	7.927	7.927	(1.444)	379872	20.0000	21
	74 1,1,2-Trichloroethane	97	8.114	8.114	(1.478)	190218	20.0000	20
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	789159	25.0000	
	76 Toluene	91	7.404	7.404	(0.800)	983340	20.0000	20
$	77 Toluene-d8	98	7.346	7.346	(0.794)	806941	20.0000	19
	78 1,1-Dichloro-2-propanone	43	7.693	7.693	(0.832)	361345	100.000	100
	79 4-Methyl-2-Pentanone	43	7.895	7.895	(0.853)	136843	20.0000	21
	80 Tetrachloroethene	164	7.869	7.869	(0.851)	221232	20.0000	20
	81 Ethyl Methacrylate	69	8.184	8.184	(0.885)	225435	20.0000	21
	82 Dibromochloromethane	129	8.322	8.322	(0.900)	248074	20.0000	21
	83 1,3-Dichloropropane	76	8.440	8.440	(0.912)	328985	20.0000	20
	84 1,2-Dibromoethane	107	8.584	8.584	(0.928)	196896	20.0000	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
86	2-Hexanone	43	8.957	8.957	(0.968)	86274	20.0000	21
87	1-Chlorohexane	91	9.304	9.304	(1.006)	259123	20.0000	21
88	Chlorobenzene	112	9.272	9.272	(1.002)	563115	20.0000	20
89	1,1,1,2-Tetrachloroethane	131	9.363	9.363	(1.012)	237458	20.0000	20
90	Ethylbenzene	106	9.336	9.336	(1.009)	311919	20.0000	20
91	Xylene (total)mp	106	9.518	9.518	(1.029)	692573	40.0000	40
92	Xylene (total)o	106	9.966	9.966	(1.077)	314768	20.0000	20
93	Styrene	104	10.019	10.019	(1.083)	495324	20.0000	21
94	Bromoform	173	10.019	10.019	(1.083)	137949	20.0000	21
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	293340	25.0000	
96	Isopropylbenzene	105	10.292	10.292	(0.896)	812234	20.0000	21
97	Bromobenzene	156	10.612	10.612	(0.924)	210148	20.0000	20
98	1,1,2,2-Tetrachloroethane	83	10.740	10.740	(0.935)	149888	20.0000	20
99	4-Ethyltoluene	105	10.777	10.777	(0.938)	726773	20.0000	21
100	1,2,3-Trichloropropane	110	10.841	10.841	(0.944)	51434	20.0000	20
101	trans-1,4-Dichloro-2-Butene	53	10.889	10.889	(0.948)	116992	40.0000	44
102	n-Propylbenzene	91	10.676	10.676	(0.929)	847623	20.0000	20
103	2-Chlorotoluene	91	10.788	10.788	(0.939)	599072	20.0000	20
104	4-Chlorotoluene	91	10.937	10.937	(0.952)	536510	20.0000	20
105	1,3,5-Trimethylbenzene	105	10.863	10.863	(0.946)	599896	20.0000	20
106	tert-Butylbenzene	119	11.124	11.124	(0.968)	493332	20.0000	20
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	578699	20.0000	20
108	sec-Butylbenzene	105	11.274	11.274	(0.981)	674715	20.0000	20
109	4-Isopropyltoluene	119	11.396	11.396	(0.992)	554694	20.0000	20
110	1,3-Dichlorobenzene	146	11.428	11.428	(0.995)	310793	20.0000	20
111	1,4-Dichlorobenzene	146	11.503	11.503	(1.001)	314071	20.0000	20
112	1,2-Dichlorobenzene	146	11.829	11.829	(1.030)	283320	20.0000	19
113	Benzyl Chloride	126	11.701	11.701	(1.019)	58409	20.0000	20
114	1,4-Diethylbenzene	119	11.685	11.685	(1.017)	280644	20.0000	19
115	n-Butylbenzene	91	11.727	11.727	(1.021)	481027	20.0000	19
118	1,2,4,5-Tetramethylbenzene	119	12.298	12.298	(1.071)	498627	20.0000	20
119	1,2-Dibromo-3-chloropropane	75	12.426	12.426	(1.082)	25173	20.0000	18
120	Nitrobenzene	77	12.832	12.832	(1.117)	78987	200.000	180
121	1,2,4-Trichlorobenzene	180	12.923	12.923	(1.125)	222393	20.0000	19
122	Hexachlorobutadiene	225	12.917	12.917	(1.125)	110151	20.0000	19
123	Naphthalene	128	13.152	13.152	(1.145)	419800	20.0000	19
124	1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	210307	20.0000	19
$ 125	Bromofluorobenzene	95	10.532	10.532	(0.917)	227381	20.0000	19
M 126	1,2-Dichloroethene (total)	100				487348	40.0000	40
M 127	Xylene (total)	100				1007341	60.0000	61

QC Flag Legend

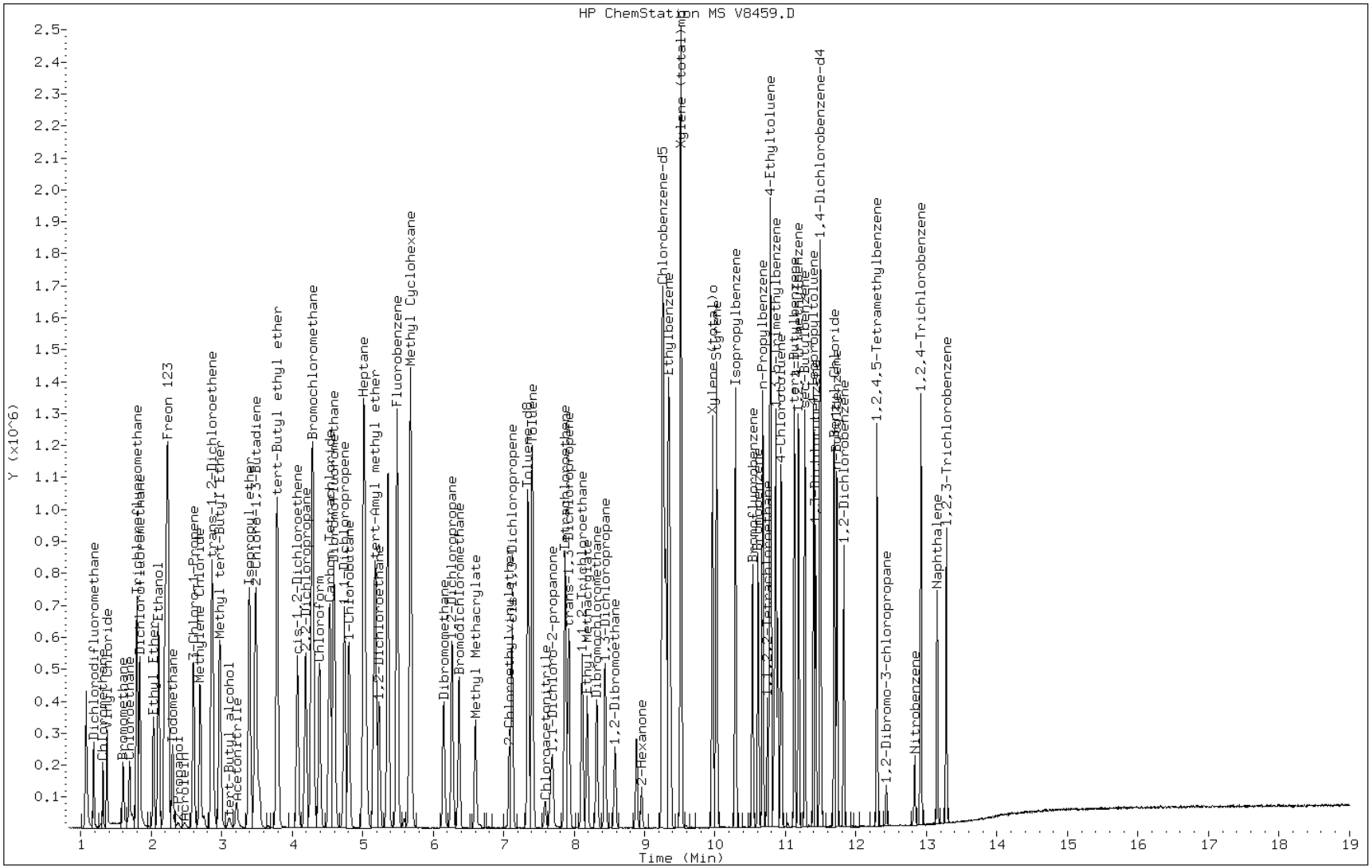
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: V8459.D

Date: 07-DEC-2009 17:33

Client ID: IC;20 Instrument: msv.i

Sample Info: IC;20 Operator: D. HUMBERT



Manual Integration Report

Data File: V8459.D
Inj. Date and Time: 07-DEC-2009 17:33
Instrument ID: msv.i
Client ID: IC;20
Compound: 67 1,4-Dioxane
CAS #: 123-91-1
Report Date: 12/09/2009

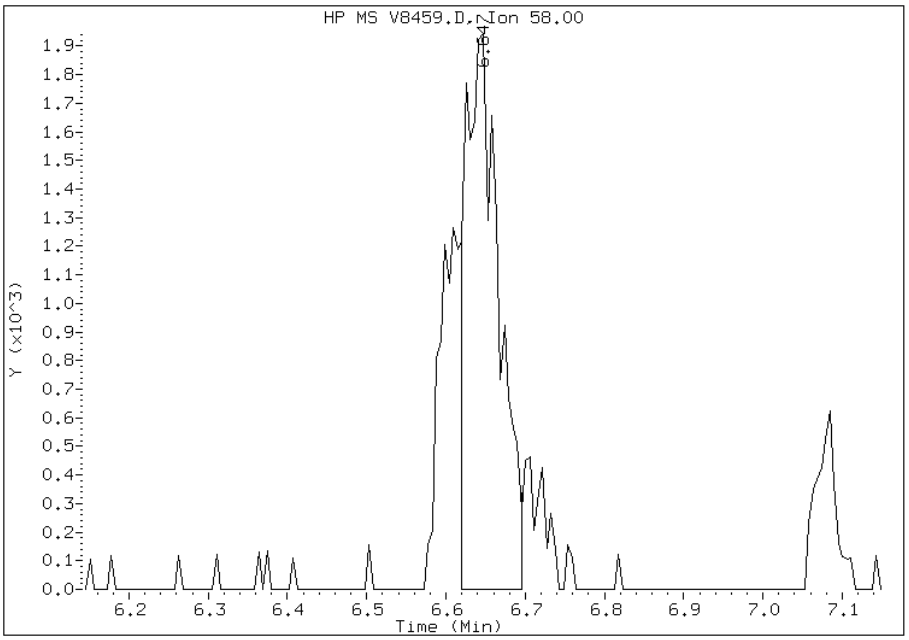
Processing Integration Results

RT: 6.65

Response: 5762

Amount: 141

Conc: 141



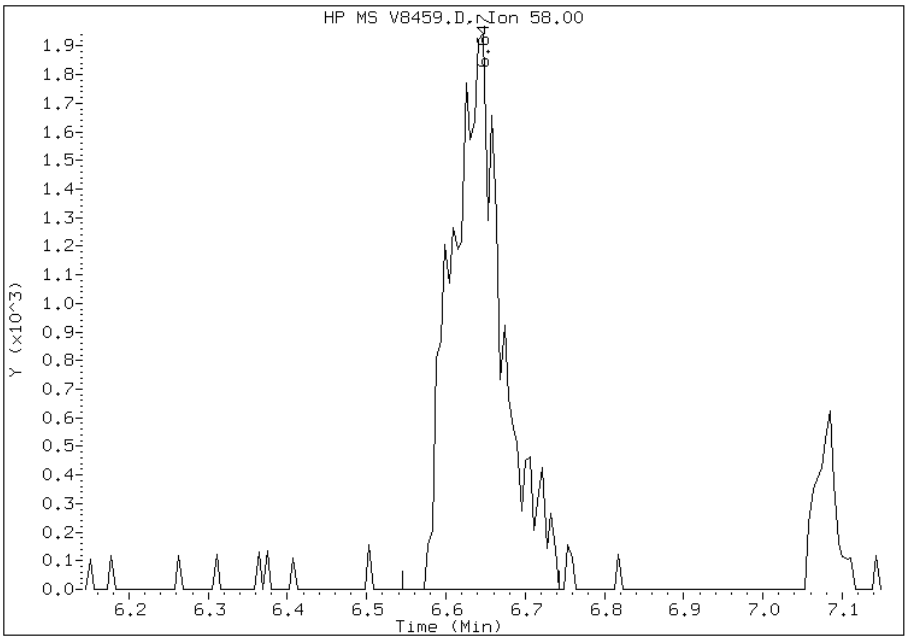
Manual Integration Results

RT: 6.65

Response: 8710

Amount: 191

Conc: 191



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: V8459.D
Inj. Date and Time: 07-DEC-2009 17:33
Instrument ID: msv.i
Client ID: IC;20
Compound: 18 2-Propanol
CAS #: 67-63-0
Report Date: 12/09/2009

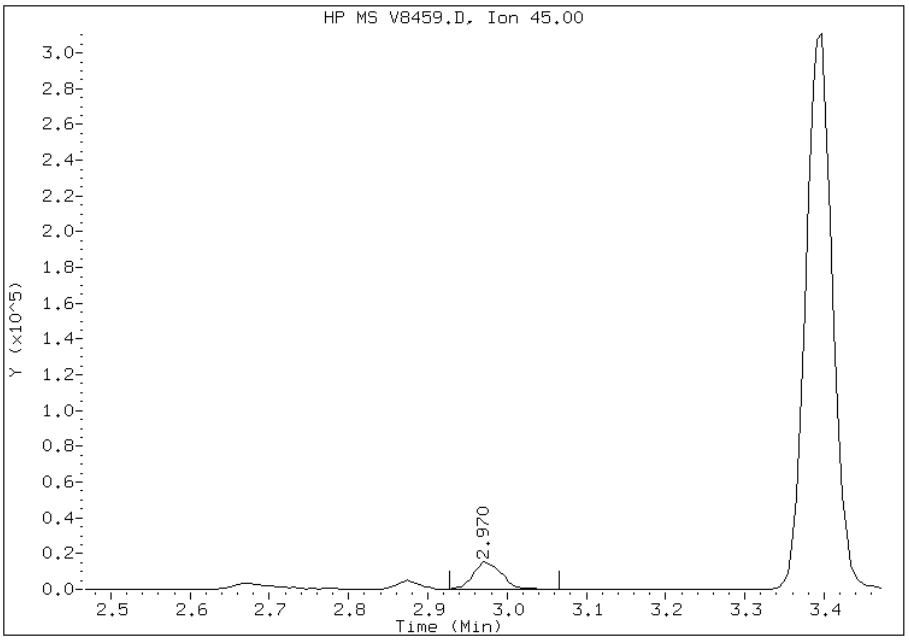
Processing Integration Results

RT: 2.97

Response: 37278

Amount: 23

Conc: 23



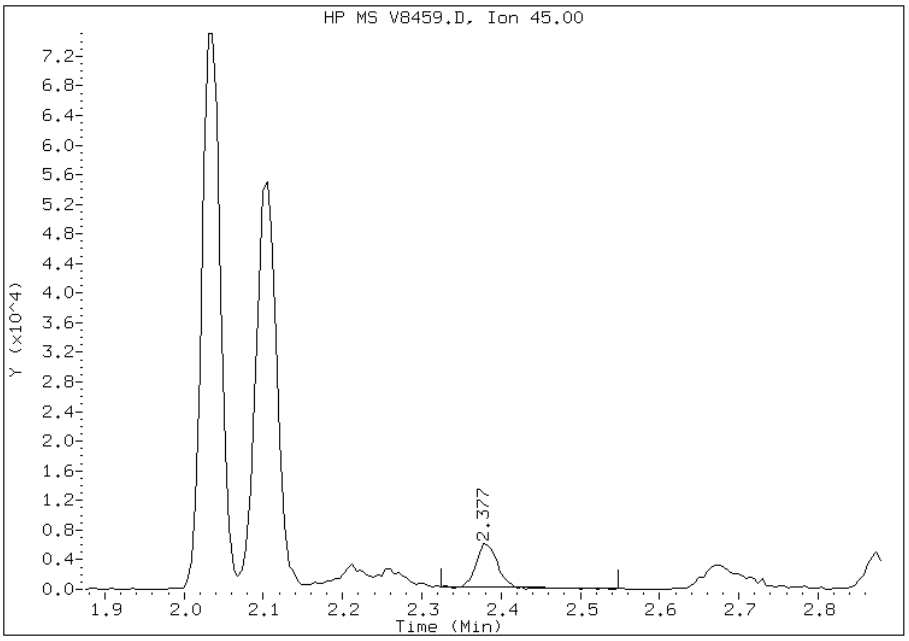
Manual Integration Results

RT: 2.38

Response: 10547

Amount: 18

Conc: 18



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8460.D
Lab Smp Id: IC;50 Client Smp ID: IC;50
Inj Date : 07-DEC-2009 17:59 MS Autotune Date: 17-AUG-2009 09:58
Operator : D. HUMBERT Inst ID: msv.i
Smp Info : IC;50
Misc Info : : ;;; ; 8260 ; 1 ; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8260LOW.m
Meth Date : 08-Dec-2009 11:26 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 17:33 Cal File: V8459.D
Als bottle: 30 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	5.488	5.488	(1.000)	1312727	25.0000	
2	Dichlorodifluoromethane	85	1.187	1.187	(0.216)	379664	50.0000	54
3	Chloromethane	50	1.315	1.315	(0.240)	325376	50.0000	50
4	Vinyl Chloride	62	1.373	1.373	(0.250)	495295	50.0000	50
5	Bromomethane	94	1.603	1.603	(0.292)	263530	50.0000	48
6	Chloroethane	64	1.694	1.694	(0.309)	300168	50.0000	48
7	Trichlorofluoromethane	101	1.795	1.795	(0.327)	1287322	50.0000	51
8	Dichlorofluoromethane	67	1.838	1.838	(0.335)	999605	50.0000	48
9	Ethyl Ether	45	2.035	2.035	(0.371)	315989	50.0000	50
10	Ethanol	45	2.105	2.105	(0.384)	260538	500.000	500
12	Freon 123	67	2.238	2.238	(0.408)	146845	50.0000	49
13	Trichlorotrifluoroethane	101	2.227	2.227	(0.406)	617313	50.0000	50
14	1,1-Dichloroethene	96	2.190	2.190	(0.399)	462108	50.0000	50
15	Carbon Disulfide	76	2.211	2.211	(0.403)	1733288	50.0000	52
16	Iodomethane	142	2.307	2.307	(0.420)	716032	50.0000	50
17	Acrolein	56	2.473	2.473	(0.451)	36495	250.000	230
18	2-Propanol	45	2.382	2.382	(0.434)	25878	50.0000	44(M)
19	3-Chloro-1-Propene	41	2.601	2.601	(0.474)	896606	50.0000	51
20	Methylene Chloride	84	2.697	2.697	(0.491)	535198	50.0000	49
21	Acetone	43	2.745	2.745	(0.500)	114924	50.0000	49
22	trans-1,2-Dichloroethene	96	2.857	2.857	(0.521)	607652	50.0000	51
23	Methyl Acetate	43	2.873	2.873	(0.524)	1520474	50.0000	51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Methyl tert-Butyl Ether	73	2.975	2.975	(0.542)	1841647	50.0000	52
	25 tert-Butyl alcohol	59	3.113	3.113	(0.567)	137797	250.000	230(H)
	26 Acetonitrile	41	3.209	3.209	(0.585)	293665	500.000	490
	27 Isopropyl ether	45	3.391	3.391	(0.618)	1878832	50.0000	51
	28 tert-Butyl ethyl ether	59	3.786	3.786	(0.690)	2056720	50.0000	51
	29 2-Chloro-1,3-Butadiene	88	3.476	3.476	(0.633)	494182	50.0000	52
	30 Acrylonitrile	53	3.535	3.535	(0.644)	279788	100.000	100
	31 1,1-Dichloroethane	63	3.492	3.492	(0.636)	1139610	50.0000	50
	32 Vinyl Acetate	43	3.786	3.786	(0.690)	1336438	50.0000	52
	33 cis-1,2-Dichloroethene	96	4.074	4.074	(0.742)	663429	50.0000	50
	34 2,2-Dichloropropane	77	4.191	4.191	(0.764)	1112563	50.0000	50
	35 Bromochloromethane	128	4.287	4.287	(0.781)	321620	50.0000	50
	37 Cyclohexane	84	4.298	4.298	(0.783)	897425	50.0000	51
	38 Chloroform	83	4.389	4.389	(0.800)	1204079	50.0000	51
	39 Ethyl Acetate	43	4.549	4.549	(0.829)	87062	100.000	94
	40 Methyl Acrylate	55	4.544	4.544	(0.828)	426557	50.0000	52
$	41 Dibromofluoromethane	111	4.581	4.581	(0.835)	599057	50.0000	48
	42 Tetrahydrofuran	42	4.544	4.544	(0.828)	222123	100.000	100
	43 Carbon Tetrachloride	117	4.528	4.528	(0.825)	1090790	50.0000	51
	44 1,1,1-Trichloroethane	97	4.602	4.602	(0.839)	1194165	50.0000	51
	45 2-Butanone	43	4.725	4.725	(0.861)	159705	50.0000	48(H)
	46 1,1-Dichloropropene	75	4.741	4.741	(0.864)	915910	50.0000	50
	47 tert-Amyl methyl ether	73	5.184	5.184	(0.945)	1754584	50.0000	53
	49 1-Chlorobutane	56	4.805	4.805	(0.876)	1281980	50.0000	51
	50 Heptane	43	5.029	5.029	(0.916)	716151	50.0000	49
	51 Propionitrile	54	5.035	5.035	(0.917)	384524	500.000	510
	52 Benzene	78	5.013	5.013	(0.913)	2441908	50.0000	50
	53 2-Methyl-2-Propenenitrile	41	5.035	5.035	(0.917)	715837	50.0000	49
	54 Isobutyl alcohol	42	5.179	5.179	(0.944)	70339	500.000	470
$	55 1,2-Dichloroethane-d4	65	5.157	5.157	(0.940)	727723	50.0000	48
	56 1,2-Dichloroethane	62	5.232	5.232	(0.953)	919799	50.0000	50
	59 Methyl Cyclohexane	83	5.675	5.675	(1.034)	1100799	50.0000	50
	60 Trichloroethene	130	5.686	5.686	(1.036)	705024	50.0000	51
	63 Dibromomethane	93	6.150	6.150	(1.121)	370543	50.0000	51
	64 1,2-Dichloropropane	63	6.267	6.267	(1.142)	637138	50.0000	51
	65 Bromodichloromethane	83	6.369	6.369	(1.160)	894967	50.0000	52
	66 Methyl Methacrylate	69	6.598	6.598	(1.202)	366023	50.0000	54
	67 1,4-Dioxane	58	6.636	6.636	(1.209)	23778	500.000	500
	69 2-Chloroethylvinylether	63	7.084	7.084	(1.291)	311814	50.0000	51
	70 cis-1,3-Dichloropropene	75	7.121	7.121	(1.298)	1030853	50.0000	52
	71 Chloroacetonitrile	48	7.586	7.586	(1.382)	88295	500.000	510
	72 2-Nitropropane	41	7.666	7.666	(1.397)	228515	100.000	100
	73 trans-1,3-Dichloropropene	75	7.927	7.927	(1.444)	962491	50.0000	51
	74 1,1,2-Trichloroethane	97	8.114	8.114	(1.478)	476134	50.0000	50
*	75 Chlorobenzene-d5	117	9.256	9.256	(1.000)	779855	25.0000	
	76 Toluene	91	7.404	7.404	(0.800)	2508636	50.0000	51
$	77 Toluene-d8	98	7.345	7.345	(0.794)	2063254	50.0000	48
	78 1,1-Dichloro-2-propanone	43	7.687	7.687	(0.830)	924722	250.000	270
	79 4-Methyl-2-Pentanone	43	7.895	7.895	(0.853)	354836	50.0000	55
	80 Tetrachloroethene	164	7.868	7.868	(0.850)	558202	50.0000	50
	81 Ethyl Methacrylate	69	8.183	8.183	(0.884)	605233	50.0000	56
	82 Dibromochloromethane	129	8.322	8.322	(0.899)	641138	50.0000	55
	83 1,3-Dichloropropane	76	8.439	8.439	(0.912)	834423	50.0000	51
	84 1,2-Dibromoethane	107	8.584	8.584	(0.927)	494175	50.0000	51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
86	2-Hexanone	43	8.957	8.957	(0.968)	225438	50.0000	55
87	1-Chlorohexane	91	9.304	9.304	(1.005)	637202	50.0000	53
88	Chlorobenzene	112	9.272	9.272	(1.002)	1399484	50.0000	50
89	1,1,1,2-Tetrachloroethane	131	9.363	9.363	(1.012)	592350	50.0000	52
90	Ethylbenzene	106	9.341	9.341	(1.009)	761817	50.0000	50
91	Xylene (total)mp	106	9.518	9.518	(1.028)	1698926	100.000	100
92	Xylene (total)o	106	9.966	9.966	(1.077)	770073	50.0000	50
93	Styrene	104	10.019	10.019	(1.082)	1217506	50.0000	52
94	Bromoform	173	10.019	10.019	(1.082)	353598	50.0000	54
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	299602	25.0000	
96	Isopropylbenzene	105	10.291	10.291	(0.896)	1915293	50.0000	48
97	Bromobenzene	156	10.612	10.612	(0.924)	501062	50.0000	47
98	1,1,2,2-Tetrachloroethane	83	10.740	10.740	(0.935)	369042	50.0000	49
99	4-Ethyltoluene	105	10.777	10.777	(0.938)	1745244	50.0000	49
100	1,2,3-Trichloropropane	110	10.836	10.836	(0.943)	124956	50.0000	49
101	trans-1,4-Dichloro-2-Butene	53	10.889	10.889	(0.948)	282940	100.000	100
102	n-Propylbenzene	91	10.676	10.676	(0.929)	2034735	50.0000	48
103	2-Chlorotoluene	91	10.788	10.788	(0.939)	1432870	50.0000	48
104	4-Chlorotoluene	91	10.937	10.937	(0.952)	1283220	50.0000	48
105	1,3,5-Trimethylbenzene	105	10.862	10.862	(0.946)	1479989	50.0000	49
106	tert-Butylbenzene	119	11.124	11.124	(0.968)	1215605	50.0000	49
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	1468076	50.0000	50
108	sec-Butylbenzene	105	11.273	11.273	(0.981)	1674217	50.0000	49
109	4-Isopropyltoluene	119	11.396	11.396	(0.992)	1452816	50.0000	51
110	1,3-Dichlorobenzene	146	11.428	11.428	(0.995)	792931	50.0000	49
111	1,4-Dichlorobenzene	146	11.503	11.503	(1.001)	798104	50.0000	49
112	1,2-Dichlorobenzene	146	11.828	11.828	(1.030)	745107	50.0000	50
113	Benzyl Chloride	126	11.700	11.700	(1.019)	161996	50.0000	55
114	1,4-Diethylbenzene	119	11.684	11.684	(1.017)	763364	50.0000	52
115	n-Butylbenzene	91	11.727	11.727	(1.021)	1268757	50.0000	50
118	1,2,4,5-Tetramethylbenzene	119	12.298	12.298	(1.071)	1349042	50.0000	52
119	1,2-Dibromo-3-chloropropane	75	12.426	12.426	(1.082)	69700	50.0000	50
120	Nitrobenzene	77	12.832	12.832	(1.117)	249918	500.000	510
121	1,2,4-Trichlorobenzene	180	12.922	12.922	(1.125)	616972	50.0000	51
122	Hexachlorobutadiene	225	12.912	12.912	(1.124)	300438	50.0000	50
123	Naphthalene	128	13.152	13.152	(1.145)	1178262	50.0000	52
124	1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	575670	50.0000	50
$ 125	Bromofluorobenzene	95	10.532	10.532	(0.917)	537308	50.0000	44
M 126	1,2-Dichloroethene (total)	100				1271081	100.000	100
M 127	Xylene (total)	100				2468999	150.000	150

QC Flag Legend

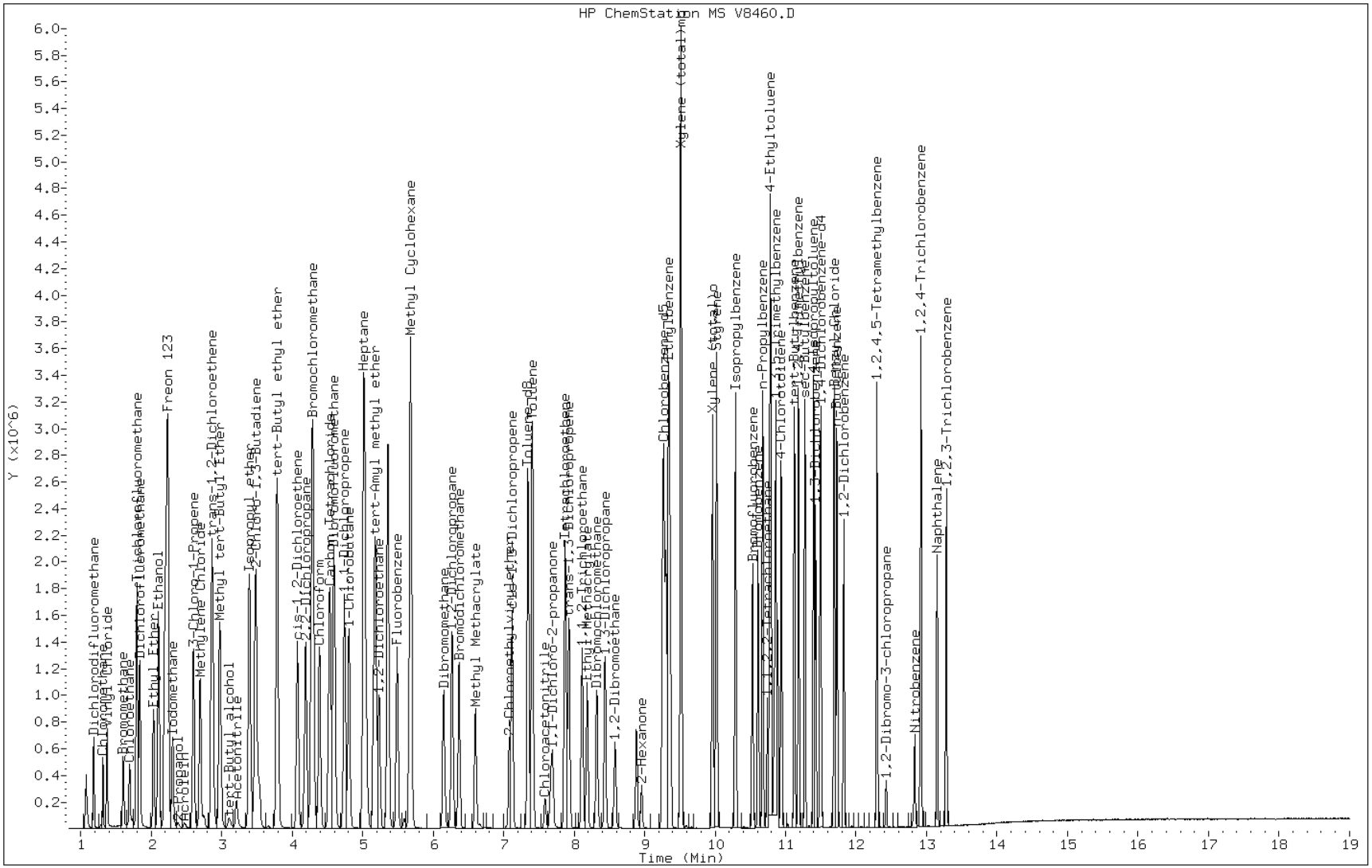
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: V8460.D

Date: 07-DEC-2009 17:59

Client ID: IC;50 Instrument: msv.i

Sample Info: IC;50 Operator: D. HUMBERT



Manual Integration Report

Data File: V8460.D
Inj. Date and Time: 07-DEC-2009 17:59
Instrument ID: msv.i
Client ID: IC;50
Compound: 18 2-Propanol
CAS #: 67-63-0
Report Date: 12/09/2009

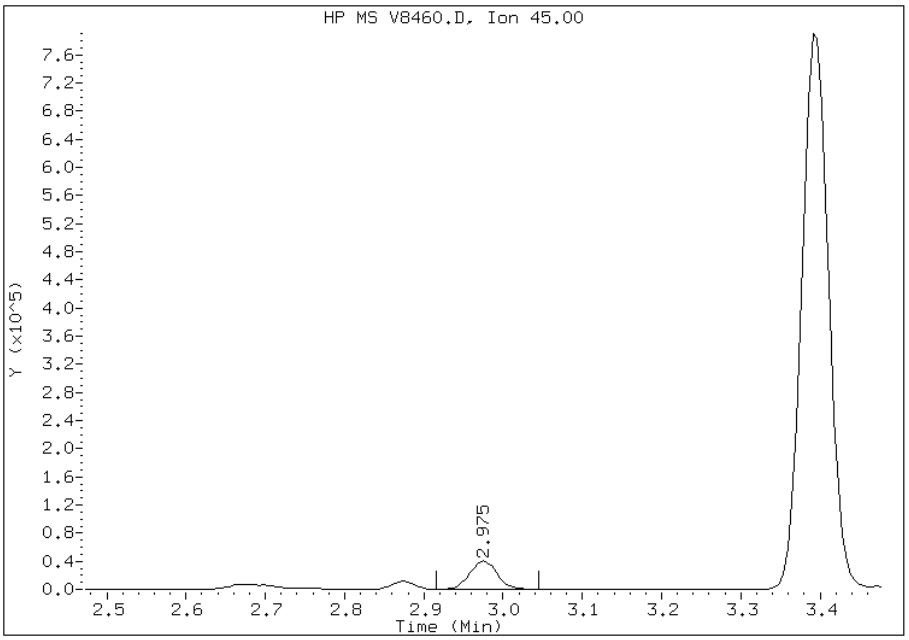
Processing Integration Results

RT: 2.98

Response: 95996

Amount: 54

Conc: 54



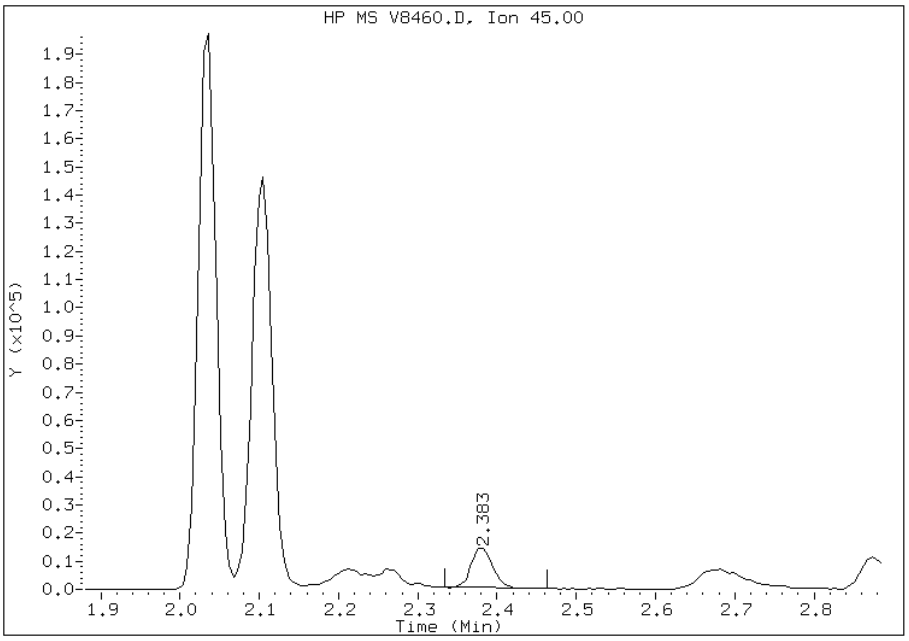
Manual Integration Results

RT: 2.38

Response: 25878

Amount: 44

Conc: 44



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8461.D
Lab Smp Id: IC;100 Client Smp ID: IC;100
Inj Date : 07-DEC-2009 18:26 MS Autotune Date: 17-AUG-2009 09:58
Operator : D. HUMBERT Inst ID: msv.i
Smp Info : IC;100
Misc Info : : ;;; ; 8260 ; 1 ; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8260LOW.m
Meth Date : 08-Dec-2009 11:26 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 17:59 Cal File: V8460.D
Als bottle: 31 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	5.488	5.488	(1.000)	1383583	25.0000	
2	Dichlorodifluoromethane	85	1.187	1.187	(0.216)	777005	100.000	100(A)
3	Chloromethane	50	1.315	1.315	(0.240)	669016	100.000	97
4	Vinyl Chloride	62	1.373	1.373	(0.250)	1005220	100.000	96
5	Bromomethane	94	1.603	1.603	(0.292)	581282	100.000	100(A)
6	Chloroethane	64	1.694	1.694	(0.309)	575123	100.000	88
7	Trichlorofluoromethane	101	1.795	1.795	(0.327)	2648073	100.000	100
8	Dichlorofluoromethane	67	1.838	1.838	(0.335)	1934438	100.000	88
9	Ethyl Ether	45	2.035	2.035	(0.371)	665282	100.000	99
10	Ethanol	45	2.105	2.105	(0.384)	541332	1000.00	990
12	Freon 123	67	2.238	2.238	(0.408)	299378	100.000	95
13	Trichlorotrifluoroethane	101	2.227	2.227	(0.406)	1308531	100.000	100(A)
14	1,1-Dichloroethene	96	2.190	2.190	(0.399)	989959	100.000	100(A)
15	Carbon Disulfide	76	2.211	2.211	(0.403)	3635350	100.000	100(A)
16	Iodomethane	142	2.302	2.302	(0.420)	1537554	100.000	100(A)
17	Acrolein	56	2.473	2.473	(0.451)	84734	500.000	510(A)
18	2-Propanol	45	2.382	2.382	(0.434)	54379	100.000	88(MH)
19	3-Chloro-1-Propene	41	2.601	2.601	(0.474)	1907532	100.000	100(A)
20	Methylene Chloride	84	2.697	2.697	(0.491)	1115417	100.000	96
21	Acetone	43	2.745	2.745	(0.500)	245266	100.000	100
22	trans-1,2-Dichloroethene	96	2.857	2.857	(0.521)	1294799	100.000	100(A)
23	Methyl Acetate	43	2.873	2.873	(0.524)	3184883	100.000	100(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Methyl tert-Butyl Ether	73	2.975	2.975	(0.542)	3928347	100.000	100(A)
	25 tert-Butyl alcohol	59	3.113	3.113	(0.567)	321232	500.000	520(AH)
	26 Acetonitrile	41	3.215	3.215	(0.586)	628912	1000.00	1000
	27 Isopropyl ether	45	3.396	3.396	(0.619)	3974105	100.000	100(A)
	28 tert-Butyl ethyl ether	59	3.791	3.791	(0.691)	4346236	100.000	100(A)
	29 2-Chloro-1,3-Butadiene	88	3.476	3.476	(0.633)	1057272	100.000	110(A)
	30 Acrylonitrile	53	3.535	3.535	(0.644)	591840	200.000	200(A)
	31 1,1-Dichloroethane	63	3.492	3.492	(0.636)	2396585	100.000	100(A)
	32 Vinyl Acetate	43	3.786	3.786	(0.690)	2833136	100.000	100(A)
	33 cis-1,2-Dichloroethene	96	4.079	4.079	(0.743)	1413495	100.000	100(A)
	34 2,2-Dichloropropane	77	4.191	4.191	(0.764)	2283335	100.000	97
	35 Bromochloromethane	128	4.287	4.287	(0.781)	701312	100.000	100(A)
	37 Cyclohexane	84	4.298	4.298	(0.783)	1881567	100.000	100(A)
	38 Chloroform	83	4.389	4.389	(0.800)	2533319	100.000	100(A)
	39 Ethyl Acetate	43	4.549	4.549	(0.829)	184044	200.000	190
	40 Methyl Acrylate	55	4.544	4.544	(0.828)	912313	100.000	100(A)
$	41 Dibromofluoromethane	111	4.586	4.586	(0.836)	1269972	100.000	97
	42 Tetrahydrofuran	42	4.549	4.549	(0.829)	460751	200.000	200(A)
	43 Carbon Tetrachloride	117	4.528	4.528	(0.825)	2254312	100.000	100(A)
	44 1,1,1-Trichloroethane	97	4.602	4.602	(0.839)	2465947	100.000	100
	45 2-Butanone	43	4.725	4.725	(0.861)	335178	100.000	96(H)
	46 1,1-Dichloropropene	75	4.741	4.741	(0.864)	1921034	100.000	100
	47 tert-Amyl methyl ether	73	5.184	5.184	(0.945)	3752516	100.000	110(A)
	49 1-Chlorobutane	56	4.805	4.805	(0.876)	2667315	100.000	100(A)
	50 Heptane	43	5.035	5.035	(0.917)	1523777	100.000	99
	51 Propionitrile	54	5.035	5.035	(0.917)	826495	1000.00	1000(A)
	52 Benzene	78	5.013	5.013	(0.913)	5143436	100.000	99
	53 2-Methyl-2-Propenenitrile	41	5.035	5.035	(0.917)	1498486	100.000	98
	54 Isobutyl alcohol	42	5.184	5.184	(0.945)	145852	1000.00	930
$	55 1,2-Dichloroethane-d4	65	5.157	5.157	(0.940)	1488192	100.000	93
	56 1,2-Dichloroethane	62	5.232	5.232	(0.953)	1912807	100.000	99
	59 Methyl Cyclohexane	83	5.675	5.675	(1.034)	2327033	100.000	100(A)
	60 Trichloroethene	130	5.686	5.686	(1.036)	1489077	100.000	100(A)
	63 Dibromomethane	93	6.150	6.150	(1.121)	776633	100.000	100(A)
	64 1,2-Dichloropropane	63	6.267	6.267	(1.142)	1335923	100.000	100(A)
	65 Bromodichloromethane	83	6.369	6.369	(1.160)	1848586	100.000	100(A)
	66 Methyl Methacrylate	69	6.598	6.598	(1.202)	787385	100.000	110(A)
	67 1,4-Dioxane	58	6.641	6.641	(1.210)	50752	1000.00	1000(A)
	69 2-Chloroethylvinylether	63	7.084	7.084	(1.291)	653891	100.000	100(A)
	70 cis-1,3-Dichloropropene	75	7.121	7.121	(1.298)	2110888	100.000	100(A)
	71 Chloroacetonitrile	48	7.586	7.586	(1.382)	202224	1000.00	1100(A)
	72 2-Nitropropane	41	7.666	7.666	(1.397)	462399	200.000	190
	73 trans-1,3-Dichloropropene	75	7.927	7.927	(1.444)	1928129	100.000	98
	74 1,1,2-Trichloroethane	97	8.114	8.114	(1.478)	975514	100.000	97
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	754940	25.0000	
	76 Toluene	91	7.410	7.410	(0.801)	5163159	100.000	110(A)
$	77 Toluene-d8	98	7.345	7.345	(0.794)	4226675	100.000	100(A)
	78 1,1-Dichloro-2-propanone	43	7.692	7.692	(0.832)	1927515	500.000	590(A)
	79 4-Methyl-2-Pentanone	43	7.895	7.895	(0.853)	741743	100.000	120(A)
	80 Tetrachloroethene	164	7.874	7.874	(0.851)	1156626	100.000	110(A)
	81 Ethyl Methacrylate	69	8.189	8.189	(0.885)	1270865	100.000	120(A)
	82 Dibromochloromethane	129	8.322	8.322	(0.900)	1282912	100.000	110(A)
	83 1,3-Dichloropropane	76	8.440	8.440	(0.912)	1670885	100.000	100(A)
	84 1,2-Dibromoethane	107	8.584	8.584	(0.928)	985111	100.000	100(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
86	2-Hexanone	43	8.957	8.957	(0.968)	470278	100.000	120(A)
87	1-Chlorohexane	91	9.304	9.304	(1.006)	1217286	100.000	100(AM)
88	Chlorobenzene	112	9.272	9.272	(1.002)	2773798	100.000	100(A)
89	1,1,1,2-Tetrachloroethane	131	9.368	9.368	(1.013)	1128408	100.000	100(A)
90	Ethylbenzene	106	9.341	9.341	(1.010)	1481664	100.000	100(A)
91	Xylene (total)mp	106	9.518	9.518	(1.029)	3320079	200.000	200(A)
92	Xylene (total)o	106	9.966	9.966	(1.077)	1493297	100.000	100(A)
93	Styrene	104	10.019	10.019	(1.083)	2435152	100.000	110(A)
94	Bromoform	173	10.019	10.019	(1.083)	680856	100.000	110(A)
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	316604	25.0000	
96	Isopropylbenzene	105	10.291	10.291	(0.896)	3680354	100.000	88
97	Bromobenzene	156	10.612	10.612	(0.924)	1011378	100.000	90
98	1,1,2,2-Tetrachloroethane	83	10.740	10.740	(0.935)	739984	100.000	92
99	4-Ethyltoluene	105	10.782	10.782	(0.939)	3613886	100.000	95
100	1,2,3-Trichloropropane	110	10.841	10.841	(0.944)	246200	100.000	91
101	trans-1,4-Dichloro-2-Butene	53	10.889	10.889	(0.948)	561535	200.000	200
102	n-Propylbenzene	91	10.676	10.676	(0.929)	4094027	100.000	92
103	2-Chlorotoluene	91	10.793	10.793	(0.940)	2914650	100.000	92
104	4-Chlorotoluene	91	10.937	10.937	(0.952)	2669516	100.000	94
105	1,3,5-Trimethylbenzene	105	10.863	10.863	(0.946)	3116080	100.000	98
106	tert-Butylbenzene	119	11.124	11.124	(0.968)	2565263	100.000	98
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	3138849	100.000	100(A)
108	sec-Butylbenzene	105	11.273	11.273	(0.981)	3551616	100.000	99
109	4-Isopropyltoluene	119	11.396	11.396	(0.992)	3096011	100.000	100(A)
110	1,3-Dichlorobenzene	146	11.428	11.428	(0.995)	1722981	100.000	100(A)
111	1,4-Dichlorobenzene	146	11.503	11.503	(1.001)	1728167	100.000	100
112	1,2-Dichlorobenzene	146	11.828	11.828	(1.030)	1621958	100.000	100(A)
113	Benzyl Chloride	126	11.700	11.700	(1.019)	351781	100.000	110(A)
114	1,4-Diethylbenzene	119	11.684	11.684	(1.017)	1663910	100.000	110(A)
115	n-Butylbenzene	91	11.727	11.727	(1.021)	2752763	100.000	100(A)
118	1,2,4,5-Tetramethylbenzene	119	12.298	12.298	(1.071)	3071719	100.000	110(A)
119	1,2-Dibromo-3-chloropropane	75	12.426	12.426	(1.082)	165546	100.000	110(A)
120	Nitrobenzene	77	12.832	12.832	(1.117)	661442	1000.00	1000
121	1,2,4-Trichlorobenzene	180	12.923	12.923	(1.125)	1420318	100.000	110(A)
122	Hexachlorobutadiene	225	12.917	12.917	(1.125)	671964	100.000	110(A)
123	Naphthalene	128	13.152	13.152	(1.145)	2733289	100.000	110(A)
124	1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	1303891	100.000	110(A)
$ 125	Bromofluorobenzene	95	10.532	10.532	(0.917)	1048756	100.000	82
M 126	1,2-Dichloroethene (total)	100				2708294	200.000	200
M 127	Xylene (total)	100				4813376	300.000	300

QC Flag Legend

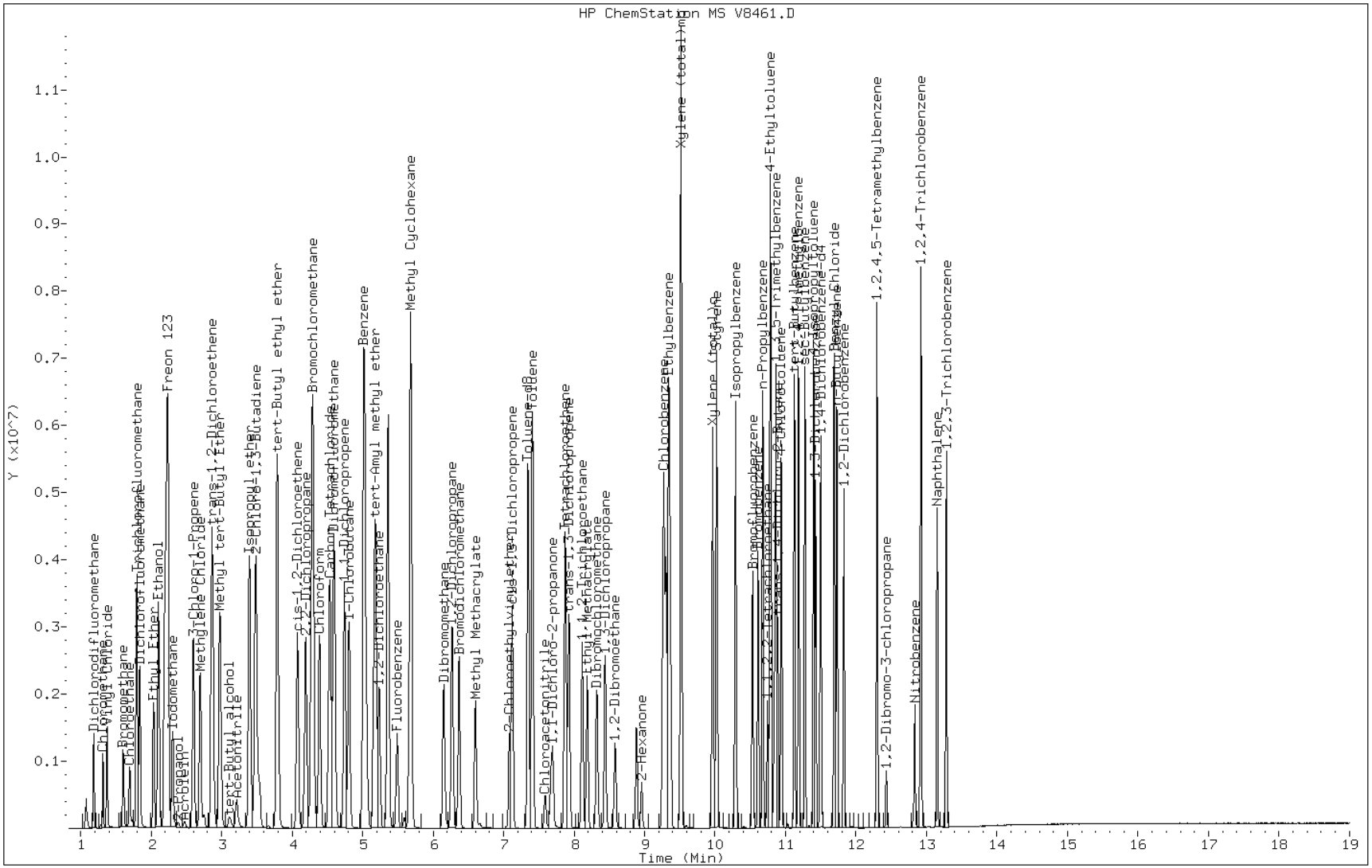
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: V8461.D

Date: 07-DEC-2009 18:26

Client ID: IC;100 Instrument: msv.i

Sample Info: IC;100 Operator: D. HUMBERT



Manual Integration Report

Data File: V8461.D
Inj. Date and Time: 07-DEC-2009 18:26
Instrument ID: msv.i
Client ID: IC;100
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/09/2009

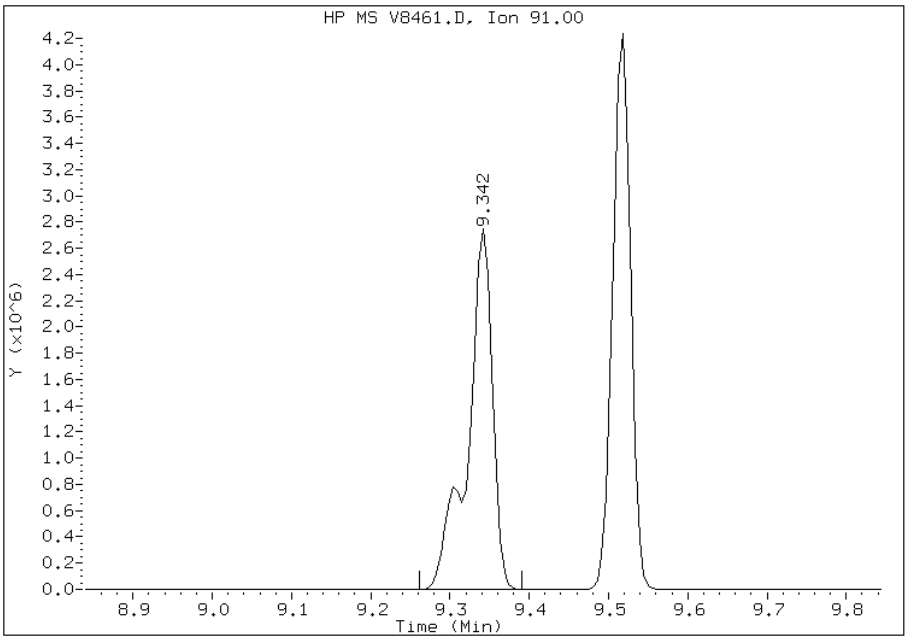
Processing Integration Results

RT: 9.34

Response: 5841917

Amount: 305

Conc: 305



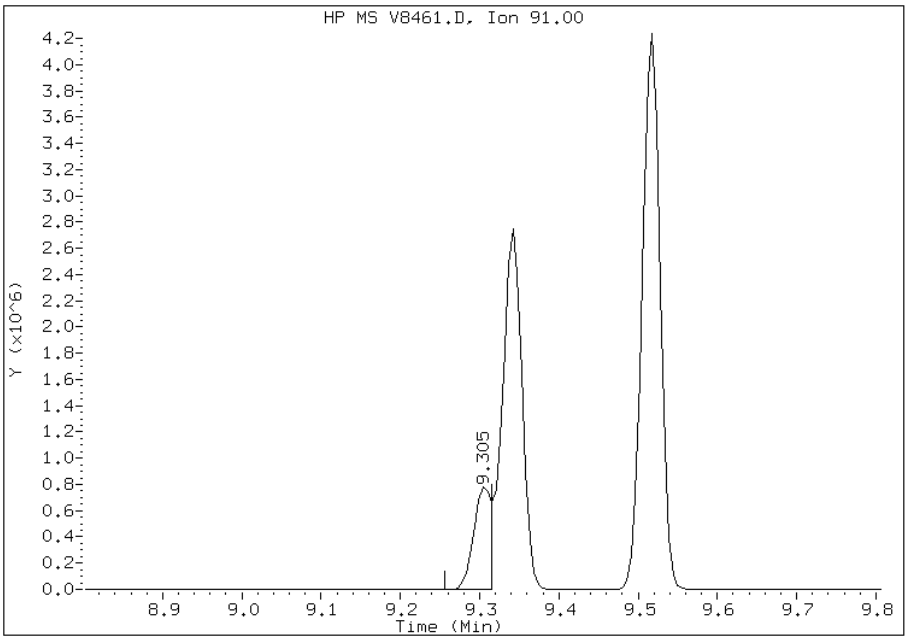
Manual Integration Results

RT: 9.30

Response: 1217286

Amount: 105

Conc: 105



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: V8461.D
Inj. Date and Time: 07-DEC-2009 18:26
Instrument ID: msv.i
Client ID: IC;100
Compound: 18 2-Propanol
CAS #: 67-63-0
Report Date: 12/09/2009

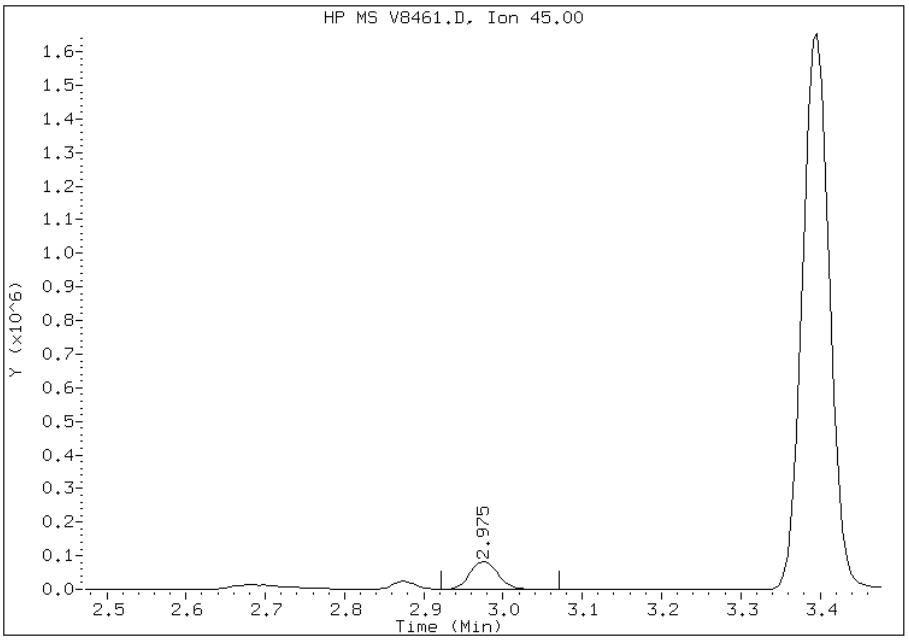
Processing Integration Results

RT: 2.98

Response: 201447

Amount: 225

Conc: 225



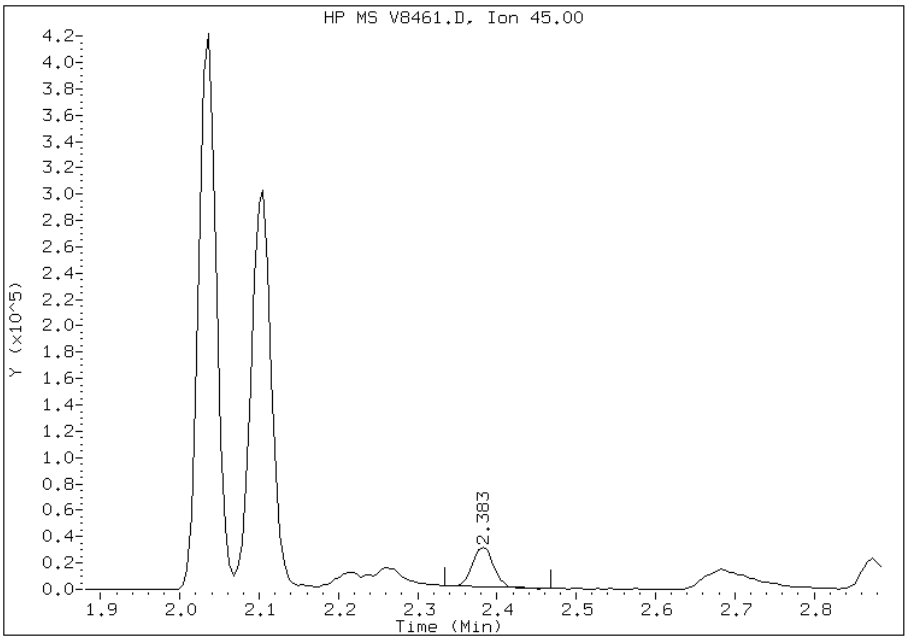
Manual Integration Results

RT: 2.38

Response: 54379

Amount: 88

Conc: 88



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8468.D
Lab Smp Id: IC;0.5 Client Smp ID: IC;0.5
Inj Date : 07-DEC-2009 21:55 MS Autotune Date: 17-AUG-2009 09:58
Operator : D. HUMBERT Inst ID: msv.i
Smp Info : IC;0.5
Misc Info : : ;;; ; 8260 ; 1 ; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098451.b\V8260LOW.m
Meth Date : 08-Dec-2009 11:26 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 18:26 Cal File: V8461.D
Als bottle: 37 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	5.488	5.488	(1.000)	1390492	25.0000	
2	Dichlorodifluoromethane	85	1.187	1.187	(0.216)	3185	0.50000	0.4
3	Chloromethane	50	1.315	1.315	(0.240)	3919	0.50000	0.6
4	Vinyl Chloride	62	1.374	1.374	(0.250)	5130	0.50000	0.5
5	Bromomethane	94	1.603	1.603	(0.292)	4480	0.50000	1
6	Chloroethane	64	1.694	1.694	(0.309)	3687	0.50000	0.6
7	Trichlorofluoromethane	101	1.801	1.801	(0.328)	13046	0.50000	0.5
8	Dichlorofluoromethane	67	1.838	1.838	(0.335)	12157	0.50000	0.5
9	Ethyl Ether	45	2.030	2.030	(0.370)	3409	0.50000	0.5
10	Ethanol	45	2.110	2.110	(0.385)	2747	5.00000	5(M)
12	Freon 123	67	2.238	2.238	(0.408)	1924	0.50000	0.6
13	Trichlorotrifluoroethane	101	2.228	2.228	(0.406)	7084	0.50000	0.5
14	1,1-Dichloroethene	96	2.190	2.190	(0.399)	5251	0.50000	0.5
15	Carbon Disulfide	76	2.206	2.206	(0.402)	17201	0.50000	0.5
16	Iodomethane	142	2.308	2.308	(0.421)	4012	0.50000	1
17	Acrolein	56	2.478	2.478	(0.452)	610	2.50000	10(M)
18	2-Propanol	45	2.377	2.377	(0.433)	355	0.50000	0.6(M)
19	3-Chloro-1-Propene	41	2.596	2.596	(0.473)	8936	0.50000	0.5
20	Methylene Chloride	84	2.692	2.692	(0.491)	8585	0.50000	0.7
21	Acetone	43	2.751	2.751	(0.501)	2387	0.50000	1.0
22	trans-1,2-Dichloroethene	96	2.857	2.857	(0.521)	6202	0.50000	0.5
23	Methyl Acetate	43	2.879	2.879	(0.525)	14760	0.50000	0.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Methyl tert-Butyl Ether	73	2.980	2.980	(0.543)	18190	0.50000	0.5
	25 tert-Butyl alcohol	59	3.113	3.113	(0.567)	1700	2.50000	3(M)
	26 Acetonitrile	41	3.210	3.210	(0.585)	3197	5.00000	5
	27 Isopropyl ether	45	3.402	3.402	(0.620)	19195	0.50000	0.5
	28 tert-Butyl ethyl ether	59	3.791	3.791	(0.691)	20453	0.50000	0.5
	29 2-Chloro-1,3-Butadiene	88	3.476	3.476	(0.633)	4996	0.50000	0.5
	30 Acrylonitrile	53	3.540	3.540	(0.645)	3008	1.00000	1
	31 1,1-Dichloroethane	63	3.492	3.492	(0.636)	12133	0.50000	0.5
	32 Vinyl Acetate	43	3.791	3.791	(0.691)	11696	0.50000	0.4
	33 cis-1,2-Dichloroethene	96	4.069	4.069	(0.741)	7255	0.50000	0.5
	34 2,2-Dichloropropane	77	4.186	4.186	(0.763)	12145	0.50000	0.5
	35 Bromochloromethane	128	4.288	4.288	(0.781)	3348	0.50000	0.5
	37 Cyclohexane	84	4.298	4.298	(0.783)	9644	0.50000	0.5
	38 Chloroform	83	4.389	4.389	(0.800)	12559	0.50000	0.5
	39 Ethyl Acetate	43	4.549	4.549	(0.829)	1234	1.00000	1(M)
	40 Methyl Acrylate	55	4.554	4.554	(0.830)	4353	0.50000	0.5
$	41 Dibromofluoromethane	111	4.586	4.586	(0.836)	7220	0.50000	0.6
	42 Tetrahydrofuran	42	4.560	4.560	(0.831)	2127	1.00000	0.9
	43 Carbon Tetrachloride	117	4.528	4.528	(0.825)	10960	0.50000	0.5
	44 1,1,1-Trichloroethane	97	4.602	4.602	(0.839)	12205	0.50000	0.5
	45 2-Butanone	43	4.741	4.741	(0.864)	1858	0.50000	0.5(H)
	46 1,1-Dichloropropene	75	4.741	4.741	(0.864)	10064	0.50000	0.5
	47 tert-Amyl methyl ether	73	5.184	5.184	(0.945)	15997	0.50000	0.4
	49 1-Chlorobutane	56	4.805	4.805	(0.876)	12654	0.50000	0.5
	50 Heptane	43	5.035	5.035	(0.917)	8855	0.50000	0.6
	51 Propionitrile	54	5.029	5.029	(0.916)	3608	5.00000	4
	52 Benzene	78	5.013	5.013	(0.913)	27438	0.50000	0.5
	53 2-Methyl-2-Propenenitrile	41	5.035	5.035	(0.917)	8789	0.50000	0.6
	54 Isobutyl alcohol	42	5.179	5.179	(0.944)	845	5.00000	5
$	55 1,2-Dichloroethane-d4	65	5.152	5.152	(0.939)	8816	0.50000	0.6
	56 1,2-Dichloroethane	62	5.232	5.232	(0.953)	9519	0.50000	0.5
	59 Methyl Cyclohexane	83	5.675	5.675	(1.034)	11855	0.50000	0.5
	60 Trichloroethene	130	5.681	5.681	(1.035)	7415	0.50000	0.5
	63 Dibromomethane	93	6.139	6.139	(1.119)	3945	0.50000	0.5
	64 1,2-Dichloropropane	63	6.268	6.268	(1.142)	6680	0.50000	0.5(T)
	65 Bromodichloromethane	83	6.369	6.369	(1.160)	9047	0.50000	0.5
	66 Methyl Methacrylate	69	6.598	6.598	(1.202)	3166	0.50000	0.4
	69 2-Chloroethylvinylether	63	7.073	7.073	(1.289)	3358	0.50000	0.5
	70 cis-1,3-Dichloropropene	75	7.116	7.116	(1.297)	10068	0.50000	0.5
	71 Chloroacetonitrile	48	7.596	7.596	(1.384)	795	5.00000	4
	72 2-Nitropropane	41	7.666	7.666	(1.397)	2464	1.00000	1(T)
	73 trans-1,3-Dichloropropene	75	7.927	7.927	(1.444)	10282	0.50000	0.5
	74 1,1,2-Trichloroethane	97	8.114	8.114	(1.478)	5147	0.50000	0.5
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	863828	25.0000	
	76 Toluene	91	7.404	7.404	(0.800)	27522	0.50000	0.5
$	77 Toluene-d8	98	7.346	7.346	(0.794)	26231	0.50000	0.6
	78 1,1-Dichloro-2-propanone	43	7.687	7.687	(0.831)	7691	2.50000	2
	79 4-Methyl-2-Pentanone	43	7.890	7.890	(0.853)	2853	0.50000	0.4(T)
	80 Tetrachloroethene	164	7.869	7.869	(0.851)	6830	0.50000	0.6
	81 Ethyl Methacrylate	69	8.189	8.189	(0.885)	4951	0.50000	0.4
	82 Dibromochloromethane	129	8.322	8.322	(0.900)	5512	0.50000	0.4(T)
	83 1,3-Dichloropropane	76	8.440	8.440	(0.912)	9025	0.50000	0.5
	84 1,2-Dibromoethane	107	8.578	8.578	(0.927)	5097	0.50000	0.5
	86 2-Hexanone	43	8.963	8.963	(0.969)	1825	0.50000	0.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
87	1-Chlorohexane	91	9.299	9.299	(1.005)	7372	0.50000	0.6(H)
88	Chlorobenzene	112	9.272	9.272	(1.002)	16546	0.50000	0.5
89	1,1,1,2-Tetrachloroethane	131	9.363	9.363	(1.012)	6191	0.50000	0.5(T)
90	Ethylbenzene	106	9.336	9.336	(1.009)	9158	0.50000	0.5
91	Xylene (total)mp	106	9.518	9.518	(1.029)	20549	1.00000	1
92	Xylene (total)o	106	9.966	9.966	(1.077)	8786	0.50000	0.5
93	Styrene	104	10.019	10.019	(1.083)	13204	0.50000	0.5
94	Bromoform	173	10.014	10.014	(1.082)	3353	0.50000	0.4
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	306247	25.0000	
96	Isopropylbenzene	105	10.292	10.292	(0.896)	22917	0.50000	0.6
97	Bromobenzene	156	10.612	10.612	(0.924)	6242	0.50000	0.6
98	1,1,2,2-Tetrachloroethane	83	10.745	10.745	(0.935)	4421	0.50000	0.6
99	4-Ethyltoluene	105	10.777	10.777	(0.938)	19720	0.50000	0.5
100	1,2,3-Trichloropropane	110	10.841	10.841	(0.944)	1247	0.50000	0.5
101	trans-1,4-Dichloro-2-Butene	53	10.889	10.889	(0.948)	2322	1.00000	0.8
102	n-Propylbenzene	91	10.676	10.676	(0.929)	24084	0.50000	0.6
103	2-Chlorotoluene	91	10.793	10.793	(0.940)	17638	0.50000	0.6
104	4-Chlorotoluene	91	10.937	10.937	(0.952)	15853	0.50000	0.6
105	1,3,5-Trimethylbenzene	105	10.863	10.863	(0.946)	16138	0.50000	0.5
106	tert-Butylbenzene	119	11.124	11.124	(0.968)	13487	0.50000	0.5
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	15306	0.50000	0.5
108	sec-Butylbenzene	105	11.274	11.274	(0.981)	19560	0.50000	0.6
109	4-Isopropyltoluene	119	11.396	11.396	(0.992)	15379	0.50000	0.5
110	1,3-Dichlorobenzene	146	11.428	11.428	(0.995)	9276	0.50000	0.6
111	1,4-Dichlorobenzene	146	11.503	11.503	(1.001)	9870	0.50000	0.6
112	1,2-Dichlorobenzene	146	11.829	11.829	(1.030)	8750	0.50000	0.6
113	Benzyl Chloride	126	11.701	11.701	(1.019)	1224	0.50000	0.4
114	1,4-Diethylbenzene	119	11.685	11.685	(1.017)	8109	0.50000	0.5
115	n-Butylbenzene	91	11.727	11.727	(1.021)	13599	0.50000	0.5
118	1,2,4,5-Tetramethylbenzene	119	12.298	12.298	(1.071)	14351	0.50000	0.5
119	1,2-Dibromo-3-chloropropane	75	12.426	12.426	(1.082)	843	0.50000	0.6
120	Nitrobenzene	77	12.832	12.832	(1.117)	1926	5.00000	12
121	1,2,4-Trichlorobenzene	180	12.923	12.923	(1.125)	7229	0.50000	0.6
122	Hexachlorobutadiene	225	12.912	12.912	(1.124)	3464	0.50000	0.6
123	Naphthalene	128	13.152	13.152	(1.145)	13403	0.50000	0.6
124	1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	7184	0.50000	0.6
$ 125	Bromofluorobenzene	95	10.532	10.532	(0.917)	7578	0.50000	0.6
M 126	1,2-Dichloroethene (total)	100				13457	1.00000	1
M 127	Xylene (total)	100				29335	1.50000	2

QC Flag Legend

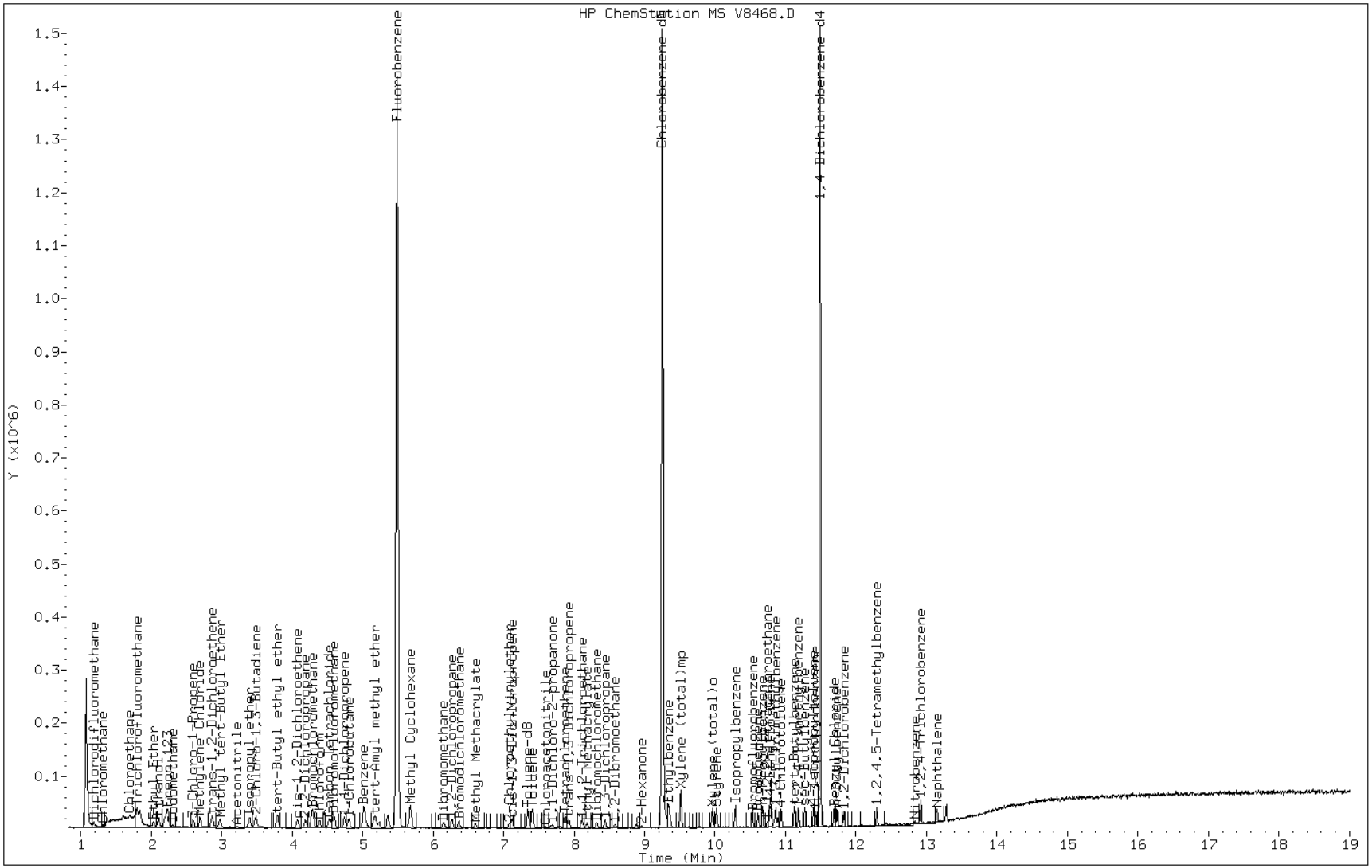
T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: V8468.D

Date: 07-DEC-2009 21:55

Client ID: IC;0.5 Instrument: msv.i

Sample Info: IC;0.5 Operator: D. HUMBERT



Manual Integration Report

Data File: V8468.D
Inj. Date and Time: 07-DEC-2009 21:55
Instrument ID: msv.i
Client ID: IC;0.5
Compound: 25 tert-Butyl alcohol
CAS #: 75-65-0
Report Date: 12/09/2009

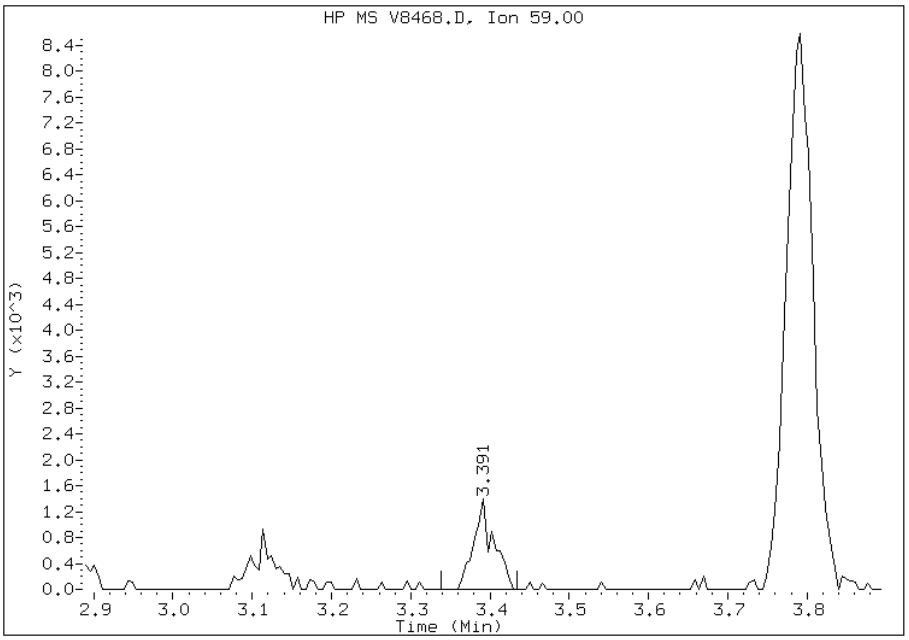
Processing Integration Results

RT: 3.39

Response: 2388

Amount: 4

Conc: 4



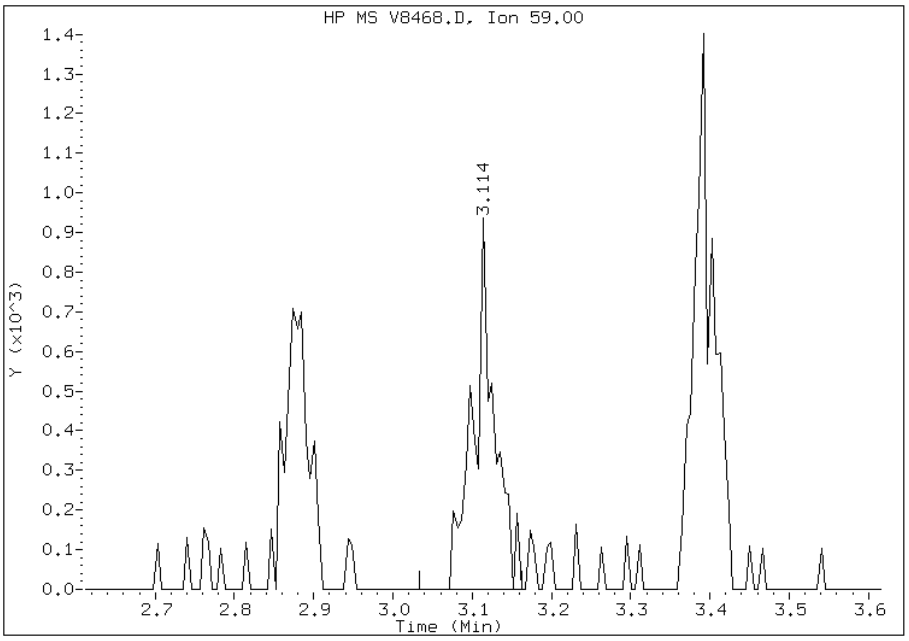
Manual Integration Results

RT: 3.11

Response: 1700

Amount: 3

Conc: 3



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

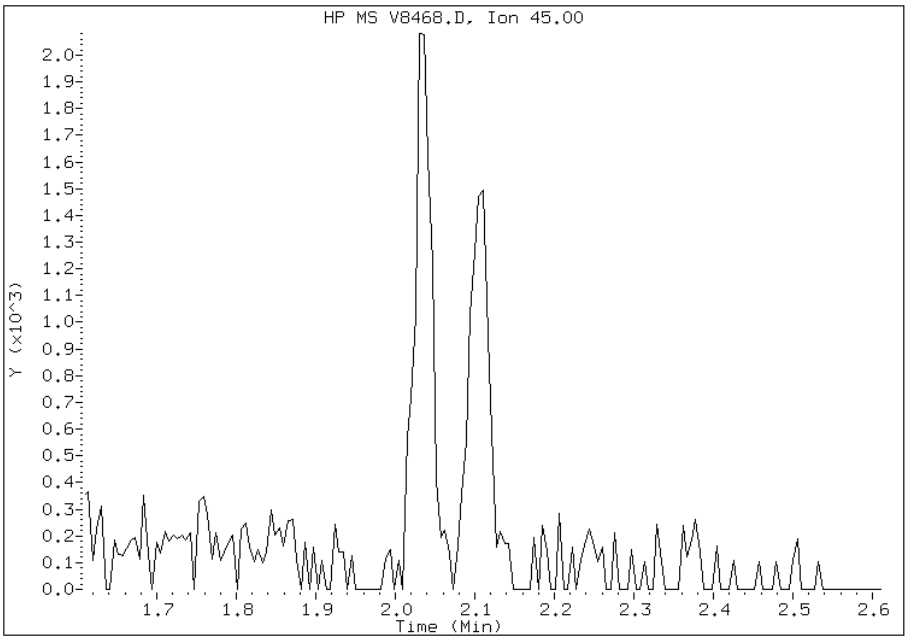
Manual Integration Report

Data File: V8468.D
Inj. Date and Time: 07-DEC-2009 21:55
Instrument ID: msv.i
Client ID: IC;0.5
Compound: 10 Ethanol
CAS #: 64-17-5
Report Date: 12/09/2009

Processing Integration Results

Not Detected

Expected RT: 2.11



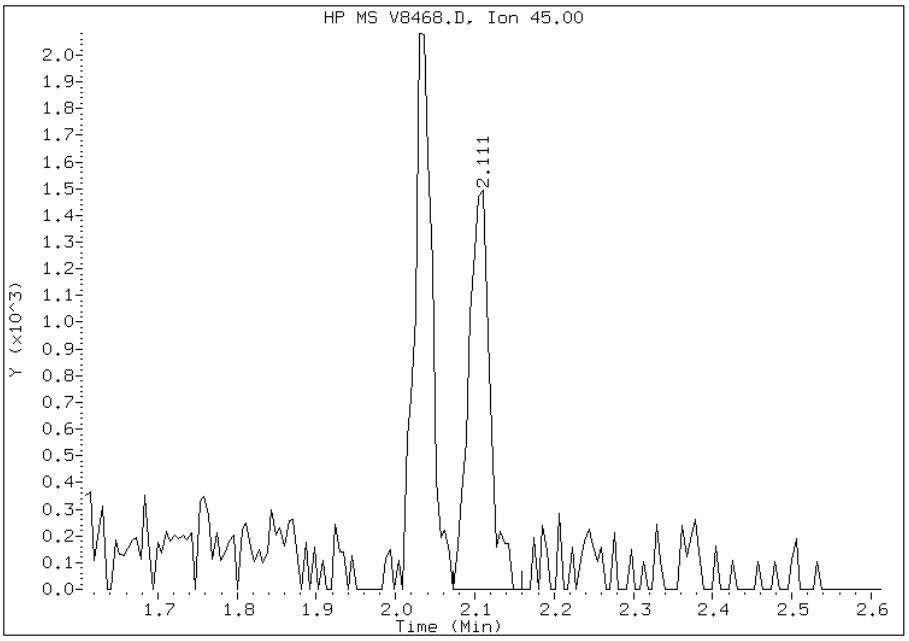
Manual Integration Results

RT: 2.11

Response: 2747

Amount: 5

Conc: 5



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

Manual Integration Report

Data File: V8468.D
Inj. Date and Time: 07-DEC-2009 21:55
Instrument ID: msv.i
Client ID: IC;0.5
Compound: 18 2-Propanol
CAS #: 67-63-0
Report Date: 12/09/2009

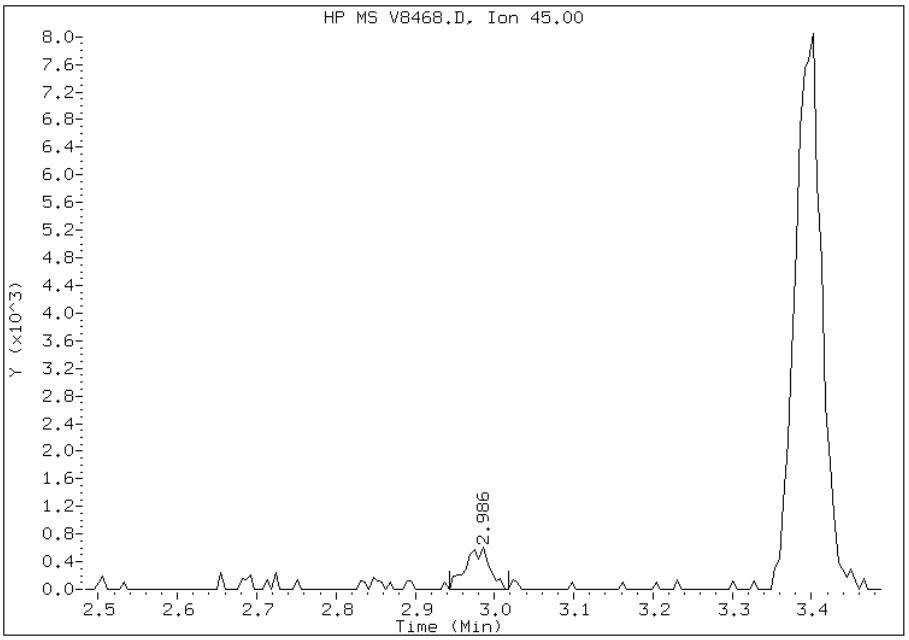
Processing Integration Results

RT: 2.99

Response: 1267

Amount: 1

Conc: 1



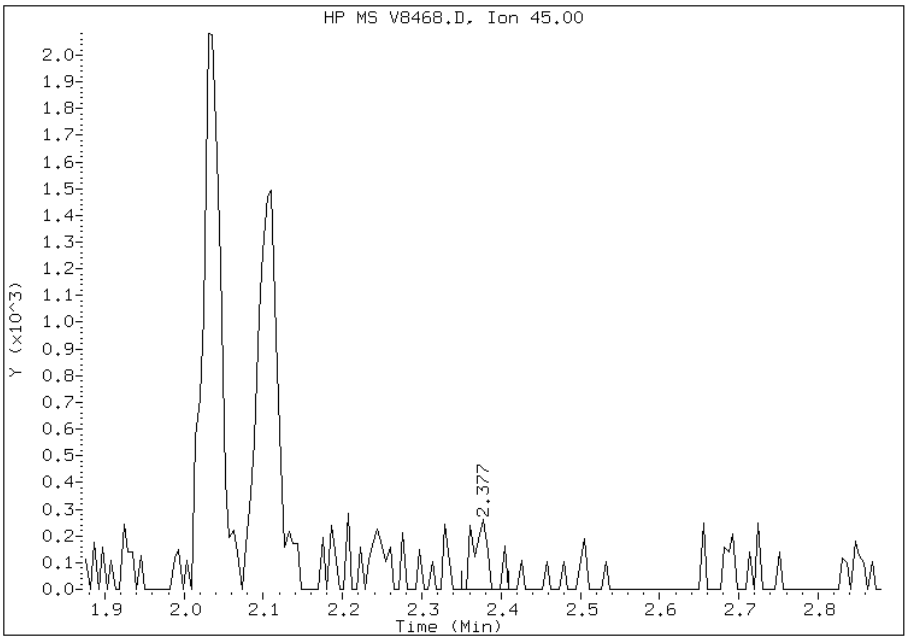
Manual Integration Results

RT: 2.38

Response: 355

Amount: 1

Conc: 1



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

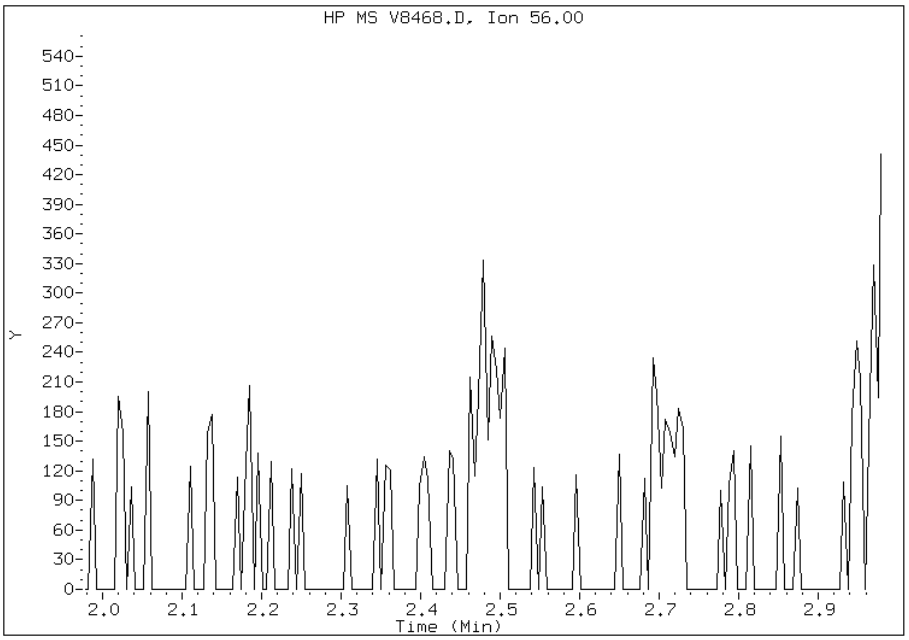
Manual Integration Report

Data File: V8468.D
Inj. Date and Time: 07-DEC-2009 21:55
Instrument ID: msv.i
Client ID: IC;0.5
Compound: 17 Acrolein
CAS #: 107-02-8
Report Date: 12/09/2009

Processing Integration Results

Not Detected

Expected RT: 2.48



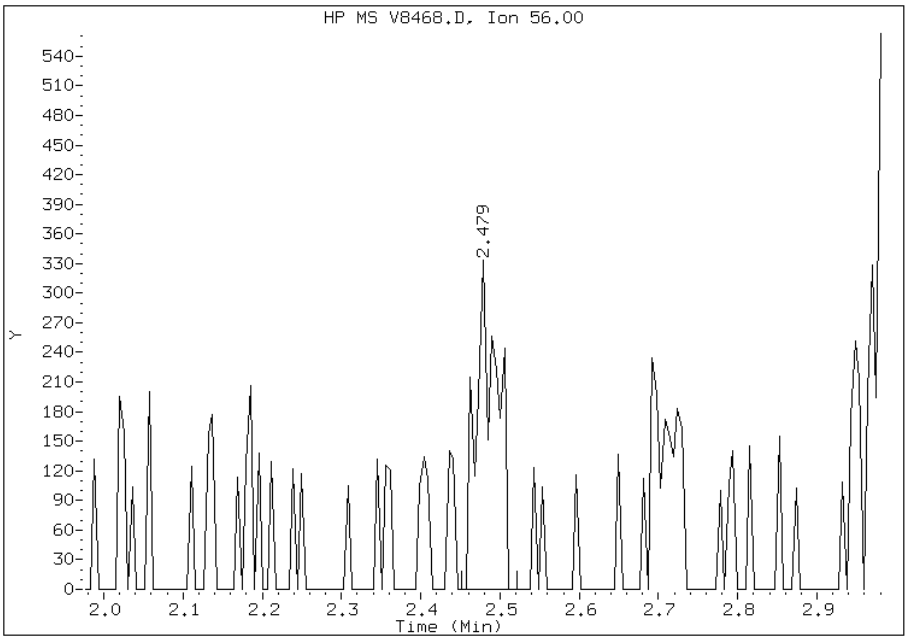
Manual Integration Results

RT: 2.48

Response: 610

Amount: 10

Conc: 10



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

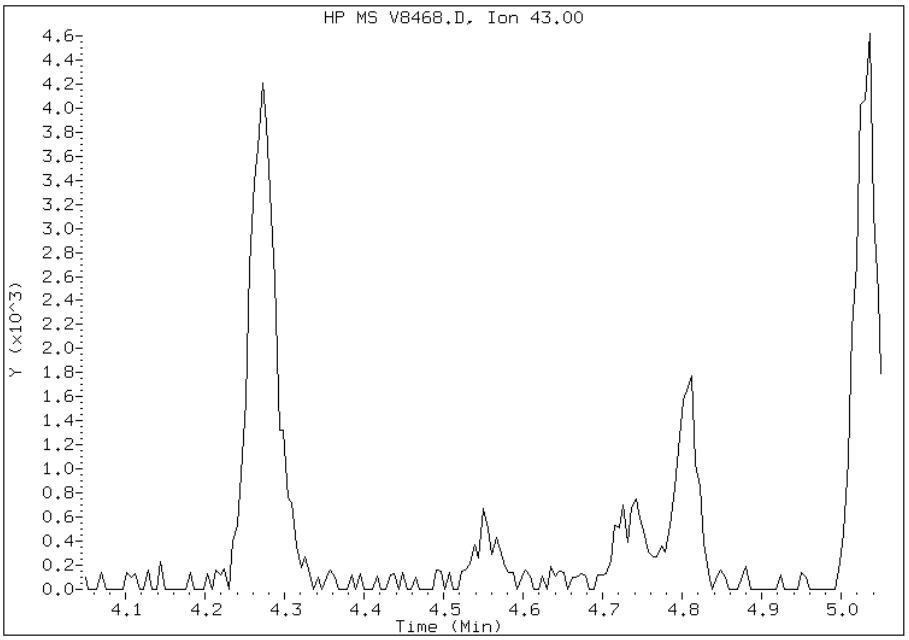
Manual Integration Report

Data File: V8468.D
Inj. Date and Time: 07-DEC-2009 21:55
Instrument ID: msv.i
Client ID: IC;0.5
Compound: 39 Ethyl Acetate
CAS #: 141-78-6
Report Date: 12/09/2009

Processing Integration Results

Not Detected

Expected RT: 4.55



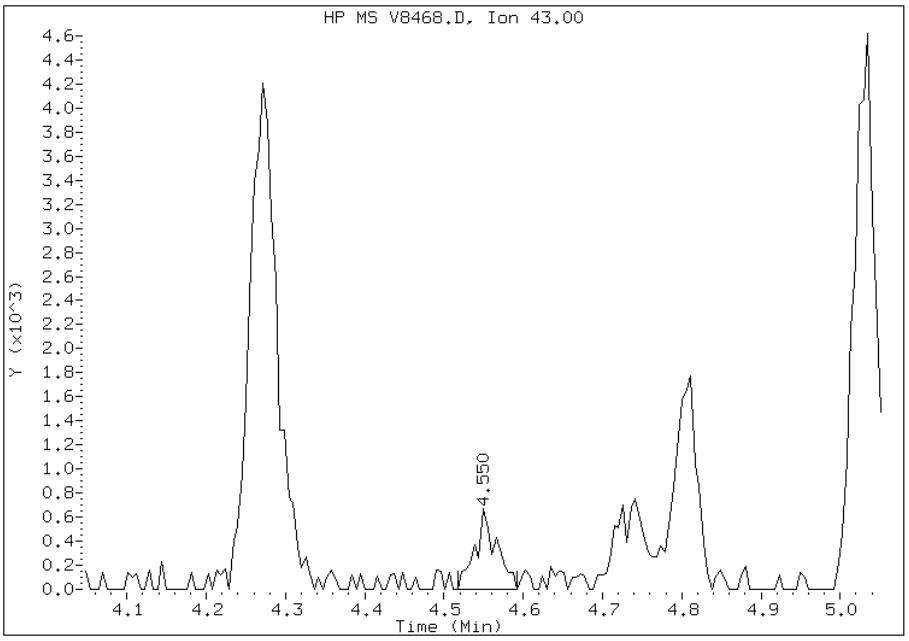
Manual Integration Results

RT: 4.55

Response: 1234

Amount: 1

Conc: 1



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34649/1 Calibration Date: 12/23/2009 15:41

Instrument ID: MSO Calib Start Date: 12/23/2009 10:57

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/23/2009 14:02

Lab File ID: O5065.D Conc. Units: ug/Kg Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4887	0.5483		56.1	50.0	12.2	30.0
Chloromethane	Ave	0.8038	0.8505	0.1000	52.9	50.0	5.8	30.0
Vinyl chloride	Ave	0.6521	0.6774		51.9	50.0	3.9	20.0
Bromomethane	Ave	0.4345	0.4440		51.1	50.0	2.2	30.0
Chloroethane	Ave	0.3587	0.3695		51.5	50.0	3.0	30.0
Trichlorofluoromethane	Ave	0.8435	0.9137		54.2	50.0	8.3	30.0
Dichlorofluoromethane	Ave	1.209	1.248		51.6	50.0	3.2	30.0
Ethyl ether	Ave	0.3215	0.3225		50.2	50.0	0.3	30.0
Ethanol	Ave	0.0343	0.0386		563	500	12.5	30.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.1873	0.1852		49.4	50.0	-1.1	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.5022	0.5179		51.6	50.0	3.1	30.0
1,1-Dichloroethene	Ave	0.3843	0.3842		50.0	50.0	0.0	20.0
Carbon disulfide	Ave	1.805	1.809		50.1	50.0	0.2	30.0
Iodomethane	Ave	0.6957	0.7103		51.0	50.0	2.1	30.0
Acrolein	Ave	0.0498	0.0485		244	250	-2.5	30.0
3-Chloro-1-propene	Ave	1.214	1.173		48.3	50.0	-3.4	30.0
Isopropyl alcohol	Ave	0.0910	0.1029		56.5	50.0	13.0	30.0
Methylene Chloride	Ave	0.4986	0.5067		50.8	50.0	1.6	30.0
Acetone	Ave	0.2823	0.2724		48.2	50.0	-3.5	30.0
Methyl acetate	Ave	2.248	2.095		46.6	50.0	-6.8	30.0
trans-1,2-Dichloroethene	Ave	0.4919	0.4863		49.4	50.0	-1.1	30.0
Methyl tert-butyl ether	Ave	1.370	1.348		49.2	50.0	-1.6	30.0
2-Methyl-2-propanol	Ave	0.0725	0.0716		247	250	-1.2	30.0
Acetonitrile	Ave	0.0606	0.0594		489	499	-2.0	30.0
Isopropyl ether	Ave	2.386	2.333		48.9	50.0	-2.2	30.0
2-Chloro-1,3-butadiene	Ave	0.4034	0.4078		50.5	50.0	1.1	30.0
1,1-Dichloroethane	Ave	1.156	1.130	0.1000	48.9	50.0	-2.2	30.0
Acrylonitrile	Ave	0.1829	0.1774		97.0	100	-3.0	30.0
Tert-butyl ethyl ether	Ave	1.931	1.919		49.7	50.0	-0.6	30.0
Vinyl acetate	Lin	1.390	1.458		48.8	50.0	-2.3	30.0
cis-1,2-Dichloroethene	Ave	0.5233	0.5233		50.0	50.0	0.0	30.0
2,2-Dichloropropane	Ave	1.023	1.028		50.3	50.0	0.5	30.0
Chlorobromomethane	Ave	0.2356	0.2329		49.4	50.0	-1.2	30.0
Cyclohexane	Ave	0.8623	0.8579		49.7	50.0	-0.5	30.0
Chloroform	Ave	1.088	1.028		47.2	50.0	-5.5	20.0
Methyl acrylate	Ave	0.4330	0.4317		49.8	50.0	-0.3	30.0
Carbon tetrachloride	Ave	0.8174	0.7688		47.0	50.0	-6.0	30.0
Ethyl acetate	Ave	0.0358	0.0739		206	100	106.0*	30.0
Tetrahydrofuran	Ave	0.1899	0.1794		94.5	100	-5.5	30.0
1,1,1-Trichloroethane	Ave	0.9069	0.9074		50.0	50.0	0.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34649/1 Calibration Date: 12/23/2009 15:41

Instrument ID: MSO Calib Start Date: 12/23/2009 10:57

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/23/2009 14:02

Lab File ID: O5065.D Conc. Units: ug/Kg Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Butanone (MEK)	Ave	0.2955	0.2952		50.0	50.0	0.1	30.0
1,1-Dichloropropene	Ave	0.8629	0.8794		51.0	50.0	1.9	30.0
1-Chlorobutane	Ave	1.431	1.398		48.8	50.0	-2.3	30.0
n-Heptane	Ave	1.298	1.311		50.5	50.0	1.0	30.0
Benzene	Ave	2.006	1.992		49.6	50.0	-0.7	30.0
Propionitrile	Ave	0.0643	0.0621		482	500	-3.5	30.0
Methacrylonitrile	Ave	0.3432	0.3561		51.9	50.0	3.8	30.0
Isobutyl alcohol	Lin	0.0097	0.0097		560	499	12.2	30.0
Tert-amyl methyl ether	Ave	1.436	1.413		49.2	50.0	-1.6	30.0
1,2-Dichloroethane	Ave	0.7961	0.8061		50.6	50.0	1.3	30.0
Methylcyclohexane	Ave	0.9432	0.9350		49.6	50.0	-0.9	30.0
Trichloroethene	Ave	0.5110	0.5043		49.3	50.0	-1.3	30.0
Dibromomethane	Ave	0.3042	0.3016		49.6	50.0	-0.8	30.0
1,2-Dichloropropane	Ave	0.5650	0.5540		49.0	50.0	-2.0	20.0
Dichlorobromomethane	Ave	0.7886	0.7793		49.4	50.0	-1.2	30.0
Methyl methacrylate	Ave	0.3318	0.3131		47.2	50.0	-5.6	30.0
1,4-Dioxane	Ave	0.0044	0.0043		479	499	-3.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1257	0.0661		26.2	49.9	-47.4*	30.0
cis-1,3-Dichloropropene	Ave	0.8693	0.8550		49.2	50.0	-1.6	30.0
Toluene	Ave	2.580	2.522		48.9	50.0	-2.2	20.0
Chloroacetonitrile	Ave	0.0190	0.0190		500	500	0.1	30.0
2-Nitropropane	Ave	0.1746	0.1689		96.7	100	-3.3	30.0
1,1-Dichloroacetone	Ave	0.4111	0.4107		250	250	0.1	30.0
Tetrachloroethene	Ave	0.5715	0.5583		48.8	50.0	-2.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7920	0.7769		49.0	50.0	-1.9	30.0
trans-1,3-Dichloropropene	Ave	0.7976	0.7911		49.6	50.0	-0.8	30.0
1,1,2-Trichloroethane	Ave	0.3365	0.3300		49.0	50.0	-1.9	30.0
Ethyl methacrylate	Ave	0.7739	0.7330		47.4	50.0	-5.3	30.0
Chlorodibromomethane	Ave	0.6236	0.6049		48.5	50.0	-3.0	30.0
1,3-Dichloropropane	Ave	0.8846	0.8828		49.9	50.0	-0.2	30.0
Ethylene Dibromide	Ave	0.4700	0.4683		49.8	50.0	-0.4	30.0
2-Hexanone	Ave	0.6372	0.6187		48.5	50.0	-2.9	30.0
Chlorobenzene	Ave	1.505	1.476	0.3000	49.0	50.0	-1.9	30.0
1-Chlorohexane	Ave	1.395	1.539		55.2	50.0	10.3	30.0
Ethylbenzene	Ave	0.8201	0.7873		48.0	50.0	-4.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5775	0.5727		49.6	50.0	-0.8	30.0
m-Xylene & p-Xylene	Ave	1.011	1.003		99.2	100	-0.8	30.0
o-Xylene	Ave	0.9493	0.9293		48.9	50.0	-2.1	30.0
Styrene	Ave	1.520	1.492		49.1	50.0	-1.8	30.0
Bromoform	Ave	0.4139	0.3939	0.1000	47.6	50.0	-4.8	30.0
Isopropylbenzene	Ave	5.083	4.944		48.6	50.0	-2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34649/1 Calibration Date: 12/23/2009 15:41

Instrument ID: MSO Calib Start Date: 12/23/2009 10:57

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/23/2009 14:02

Lab File ID: O5065.D Conc. Units: ug/Kg Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Ave	1.283	1.259		49.1	50.0	-1.8	30.0
N-Propylbenzene	Ave	6.700	6.706		50.0	50.0	0.1	30.0
1,1,2,2-Tetrachloroethane	Ave	1.129	1.120	0.3000	49.6	50.0	-0.8	30.0
4-Ethyltoluene	Ave	5.066	5.028		49.6	50.0	-0.7	30.0
2-Chlorotoluene	Ave	4.502	4.519		50.2	50.0	0.4	30.0
1,2,3-Trichloropropane	Ave	0.3047	0.3009		49.4	50.0	-1.3	30.0
1,3,5-Trimethylbenzene	Ave	4.213	4.126		49.0	50.0	-2.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4274	0.4224		98.8	100	-1.2	30.0
4-Chlorotoluene	Ave	3.996	4.008		50.1	50.0	0.3	30.0
tert-Butylbenzene	Ave	3.612	3.555		49.2	50.0	-1.6	30.0
1,2,4-Trimethylbenzene	Ave	4.083	4.037		49.4	50.0	-1.1	30.0
sec-Butylbenzene	Ave	5.487	5.422		49.4	50.0	-1.2	30.0
4-Isopropyltoluene	Ave	4.383	4.353		49.7	50.0	-0.7	30.0
1,3-Dichlorobenzene	Ave	2.219	2.190		49.3	50.0	-1.3	30.0
1,4-Dichlorobenzene	Ave	2.185	2.165		49.5	50.0	-0.9	30.0
p-Diethylbenzene	Ave	2.159	2.131		49.4	50.0	-1.3	30.0
Benzyl chloride	Ave	0.3474	0.3611		52.0	50.0	3.9	30.0
n-Butylbenzene	Ave	4.908	4.925		50.2	50.0	0.4	30.0
1,2-Dichlorobenzene	Ave	1.939	1.904		49.1	50.0	-1.8	30.0
1,2,4,5-Tetramethylbenzene	Ave	3.344	3.311		49.5	50.0	-1.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1986	0.1990		50.1	50.0	0.2	30.0
Nitrobenzene	Lin	0.0408	0.0282		344	500	-31.2*	30.0
Hexachlorobutadiene	Ave	1.080	1.028		47.6	50.0	-4.8	30.0
1,2,4-Trichlorobenzene	Lin	1.133	1.126		45.7	50.0	-8.6	30.0
Naphthalene	Lin	1.792	1.692		43.7	50.0	-12.6	30.0
1,2,3-Trichlorobenzene	Lin	0.9547	0.9025		43.6	50.0	-12.7	30.0
Dibromofluoromethane	Ave	0.4910	0.4819		24.5	25.0	-1.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.5699	0.5566		24.4	25.0	-2.3	30.0
Toluene-d8 (Surr)	Ave	1.921	1.833		23.9	25.0	-4.5	30.0
4-Bromofluorobenzene	Ave	1.615	1.584		24.5	25.0	-1.9	30.0

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O5065.D
Lab Smp Id: CCVIS Client Smp ID: CCVIS
Inj Date : 23-DEC-2009 15:41 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : CCVIS
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 68 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
* 1	Fluorobenzene	96	4.014	4.014	(1.000)	258325	25.0000	
2	Dichlorodifluoromethane	85	0.938	0.938	(0.234)	283295	50.0000	56
3	Chloromethane	50	1.027	1.027	(0.256)	439412	50.0000	53
4	Vinyl Chloride	62	1.066	1.066	(0.266)	349952	50.0000	52
5	Bromomethane	94	1.204	1.204	(0.300)	229384	50.0000	51
6	Chloroethane	64	1.264	1.264	(0.315)	190885	50.0000	52
7	Trichlorofluoromethane	101	1.323	1.323	(0.330)	472055	50.0000	54
8	Dichlorofluoromethane	67	1.342	1.342	(0.335)	644601	50.0000	52
9	Ethyl Ether	45	1.451	1.451	(0.362)	166642	50.0000	50
10	Ethanol	45	1.500	1.500	(0.374)	199332	500.000	560
12	Freon 123	67	1.559	1.559	(0.389)	95665	50.0000	49
13	Trichlorotrifluoroethane	101	1.559	1.559	(0.389)	267566	50.0000	52
14	1,1-Dichloroethene	96	1.559	1.559	(0.389)	198510	50.0000	50
15	Carbon Disulfide	76	1.579	1.579	(0.393)	934743	50.0000	50
16	Iodomethane	142	1.638	1.638	(0.408)	366963	50.0000	51
17	Acrolein	56	1.717	1.717	(0.428)	125572	250.000	240
18	2-Propanol	45	1.806	1.806	(0.450)	53151	50.0000	56
19	3-Chloro-1-Propene	41	1.786	1.786	(0.445)	606161	50.0000	48
20	Methylene Chloride	84	1.845	1.845	(0.460)	261777	50.0000	51
21	Acetone	43	1.875	1.875	(0.467)	140713	50.0000	48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
	22 trans-1,2-Dichloroethene	96	1.934	1.934	(0.482)	251247	50.0000	49
	23 Methyl Acetate	43	1.924	1.924	(0.479)	1082578	50.0000	47
	24 Methyl tert-Butyl Ether	73	1.983	1.983	(0.494)	696582	50.0000	49
	25 tert-Butyl alcohol	59	2.042	2.042	(0.509)	185029	250.000	250
	26 Acetonitrile	41	2.151	2.151	(0.536)	306121	500.000	490
	27 Isopropyl ether	45	2.210	2.210	(0.551)	1205154	50.0000	49
	28 tert-Butyl ethyl ether	59	2.456	2.456	(0.612)	991368	50.0000	50
	29 2-Chloro-1,3-Butadiene	88	2.299	2.299	(0.573)	210683	50.0000	50
	30 Acrylonitrile	53	2.348	2.348	(0.585)	183325	100.000	97
	31 1,1-Dichloroethane	63	2.309	2.309	(0.575)	583817	50.0000	49
	32 Vinyl Acetate	43	2.476	2.476	(0.617)	752785	50.0000	49
	33 cis-1,2-Dichloroethene	96	2.713	2.713	(0.676)	270350	50.0000	50
	34 2,2-Dichloropropane	77	2.802	2.802	(0.698)	531162	50.0000	50
	35 Bromochloromethane	128	2.880	2.880	(0.718)	120325	50.0000	49
	37 Cyclohexane	84	2.880	2.880	(0.718)	443222	50.0000	50
	38 Chloroform	83	2.940	2.940	(0.732)	530894	50.0000	47
	39 Ethyl Acetate	43	3.068	3.068	(0.764)	76331	100.000	210
	40 Methyl Acrylate	55	3.058	3.058	(0.762)	223011	50.0000	50
$	41 Dibromofluoromethane	111	3.107	3.107	(0.774)	124478	25.0000	24
	42 Tetrahydrofuran	42	3.078	3.078	(0.767)	185412	100.000	94
	43 Carbon Tetrachloride	117	3.068	3.068	(0.764)	397179	50.0000	47
	44 1,1,1-Trichloroethane	97	3.127	3.127	(0.779)	468785	50.0000	50
	45 2-Butanone	43	3.235	3.235	(0.806)	152504	50.0000	50
	46 1,1-Dichloropropene	75	3.255	3.255	(0.811)	454329	50.0000	51
	47 tert-Amyl methyl ether	73	3.649	3.649	(0.909)	729914	50.0000	49
	49 1-Chlorobutane	56	3.304	3.304	(0.823)	722335	50.0000	49
	50 Heptane	43	3.482	3.482	(0.867)	677071	50.0000	50
	51 Propionitrile	54	3.541	3.541	(0.882)	320758	500.000	480
	52 Benzene	78	3.511	3.511	(0.875)	1029039	50.0000	50
	53 2-Methyl-2-Propenenitrile	41	3.561	3.561	(0.887)	183967	50.0000	52
	54 Isobutyl alcohol	42	3.649	3.649	(0.909)	50235	500.000	560
$	55 1,2-Dichloroethane-d4	65	3.669	3.669	(0.914)	143781	25.0000	24
	56 1,2-Dichloroethane	62	3.748	3.748	(0.934)	416472	50.0000	51
	59 Methyl Cyclohexane	83	4.221	4.221	(1.052)	483056	50.0000	50
	60 Trichloroethene	130	4.241	4.241	(1.056)	260524	50.0000	49
	63 Dibromomethane	93	4.744	4.744	(1.182)	155805	50.0000	50
	64 1,2-Dichloropropane	63	4.872	4.872	(1.214)	286230	50.0000	49
	65 Bromodichloromethane	83	4.961	4.961	(1.236)	402605	50.0000	49
	66 Methyl Methacrylate	69	5.187	5.187	(1.292)	161784	50.0000	47
	67 1,4-Dioxane	58	5.227	5.227	(1.302)	21906	500.000	480
	69 2-Chloroethylvinylether	63	5.641	5.641	(1.405)	34078	50.0000	26
	70 cis-1,3-Dichloropropene	75	5.670	5.670	(1.413)	441744	50.0000	49
	71 Chloroacetonitrile	48	6.094	6.094	(1.518)	98174	500.000	500
	72 2-Nitropropane	41	6.144	6.144	(1.530)	174473	100.000	97
	73 trans-1,3-Dichloropropene	75	6.351	6.351	(1.582)	408711	50.0000	50
	74 1,1,2-Trichloroethane	97	6.499	6.499	(1.619)	170499	50.0000	49
*	75 Chlorobenzene-d5	117	7.356	7.356	(1.000)	205324	25.0000	
	76 Toluene	91	5.907	5.907	(0.803)	1035716	50.0000	49
$	77 Toluene-d8	98	5.858	5.858	(0.796)	376410	25.0000	24
	78 1,1-Dichloro-2-propanone	43	6.163	6.163	(0.838)	843190	250.000	250
	79 4-Methyl-2-Pentanone	43	6.321	6.321	(0.859)	319013	50.0000	49
	80 Tetrachloroethene	164	6.291	6.291	(0.855)	229243	50.0000	49
	81 Ethyl Methacrylate	69	6.548	6.548	(0.890)	300992	50.0000	47
	82 Dibromochloromethane	129	6.656	6.656	(0.905)	248388	50.0000	48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
	83 1,3-Dichloropropane	76	6.755	6.755	(0.918)	362503	50.0000	50
	84 1,2-Dibromoethane	107	6.863	6.863	(0.933)	192307	50.0000	50
	86 2-Hexanone	43	7.139	7.139	(0.971)	254048	50.0000	48
	87 1-Chlorohexane	91	7.406	7.406	(1.007)	632155	50.0000	55(M)
	88 Chlorobenzene	112	7.366	7.366	(1.001)	605968	50.0000	49
	89 1,1,1,2-Tetrachloroethane	131	7.445	7.445	(1.012)	235164	50.0000	50
	90 Ethylbenzene	106	7.415	7.415	(1.008)	323302	50.0000	48
	91 Xylene (total)mp	106	7.563	7.563	(1.028)	823718	100.000	99
	92 Xylene (total)o	106	7.938	7.938	(1.079)	381600	50.0000	49
	93 Styrene	104	7.987	7.987	(1.086)	612690	50.0000	49
	94 Bromoform	173	7.997	7.997	(1.087)	161733	50.0000	48
*	95 1,4-Dichlorobenzene-d4	152	9.446	9.446	(1.000)	104951	25.0000	
	96 Isopropylbenzene	105	8.234	8.234	(0.872)	1037673	50.0000	49
	97 Bromobenzene	156	8.539	8.539	(0.904)	264368	50.0000	49
	98 1,1,2,2-Tetrachloroethane	83	8.677	8.677	(0.919)	235076	50.0000	50
	99 4-Ethyltoluene	105	8.707	8.707	(0.922)	1055380	50.0000	50
	100 1,2,3-Trichloropropane	110	8.776	8.776	(0.929)	63154	50.0000	49
	101 trans-1,4-Dichloro-2-Butene	53	8.825	8.825	(0.934)	177325	100.000	99
	102 n-Propylbenzene	91	8.598	8.598	(0.910)	1407520	50.0000	50
	103 2-Chlorotoluene	91	8.717	8.717	(0.923)	948646	50.0000	50
	104 4-Chlorotoluene	91	8.865	8.865	(0.938)	841209	50.0000	50
	105 1,3,5-Trimethylbenzene	105	8.786	8.786	(0.930)	866070	50.0000	49
	106 tert-Butylbenzene	119	9.052	9.052	(0.958)	746267	50.0000	49
	107 1,2,4-Trimethylbenzene	105	9.121	9.121	(0.966)	847422	50.0000	49
	108 sec-Butylbenzene	105	9.210	9.210	(0.975)	1137997	50.0000	49
	109 4-Isopropyltoluene	119	9.348	9.348	(0.990)	913672	50.0000	50
	110 1,3-Dichlorobenzene	146	9.377	9.377	(0.993)	459693	50.0000	49
	111 1,4-Dichlorobenzene	146	9.456	9.456	(1.001)	454445	50.0000	50
	112 1,2-Dichlorobenzene	146	9.821	9.821	(1.040)	399637	50.0000	49
	113 Benzyl Chloride	126	9.683	9.683	(1.025)	75790	50.0000	52
	114 1,4-Diethylbenzene	119	9.663	9.663	(1.023)	447390	50.0000	49
	115 n-Butylbenzene	91	9.712	9.712	(1.028)	1033826	50.0000	50
	118 1,2,4,5-Tetramethylbenzene	119	10.363	10.363	(1.097)	695052	50.0000	50
	119 1,2-Dibromo-3-chloropropane	75	10.521	10.521	(1.114)	41763	50.0000	50
	120 Nitrobenzene	77	11.004	11.004	(1.165)	59171	500.000	340
	121 1,2,4-Trichlorobenzene	180	11.112	11.112	(1.176)	236368	50.0000	46
	122 Hexachlorobutadiene	225	11.103	11.103	(1.175)	215818	50.0000	48
	123 Naphthalene	128	11.388	11.388	(1.206)	355186	50.0000	44
	124 1,2,3-Trichlorobenzene	180	11.556	11.556	(1.223)	189434	50.0000	44
$	125 Bromofluorobenzene	95	8.460	8.460	(0.896)	166246	25.0000	24
M	126 1,2-Dichloroethene (total)	100				521597	100.000	99
M	127 Xylene (total)	100				1205318	150.000	150

QC Flag Legend

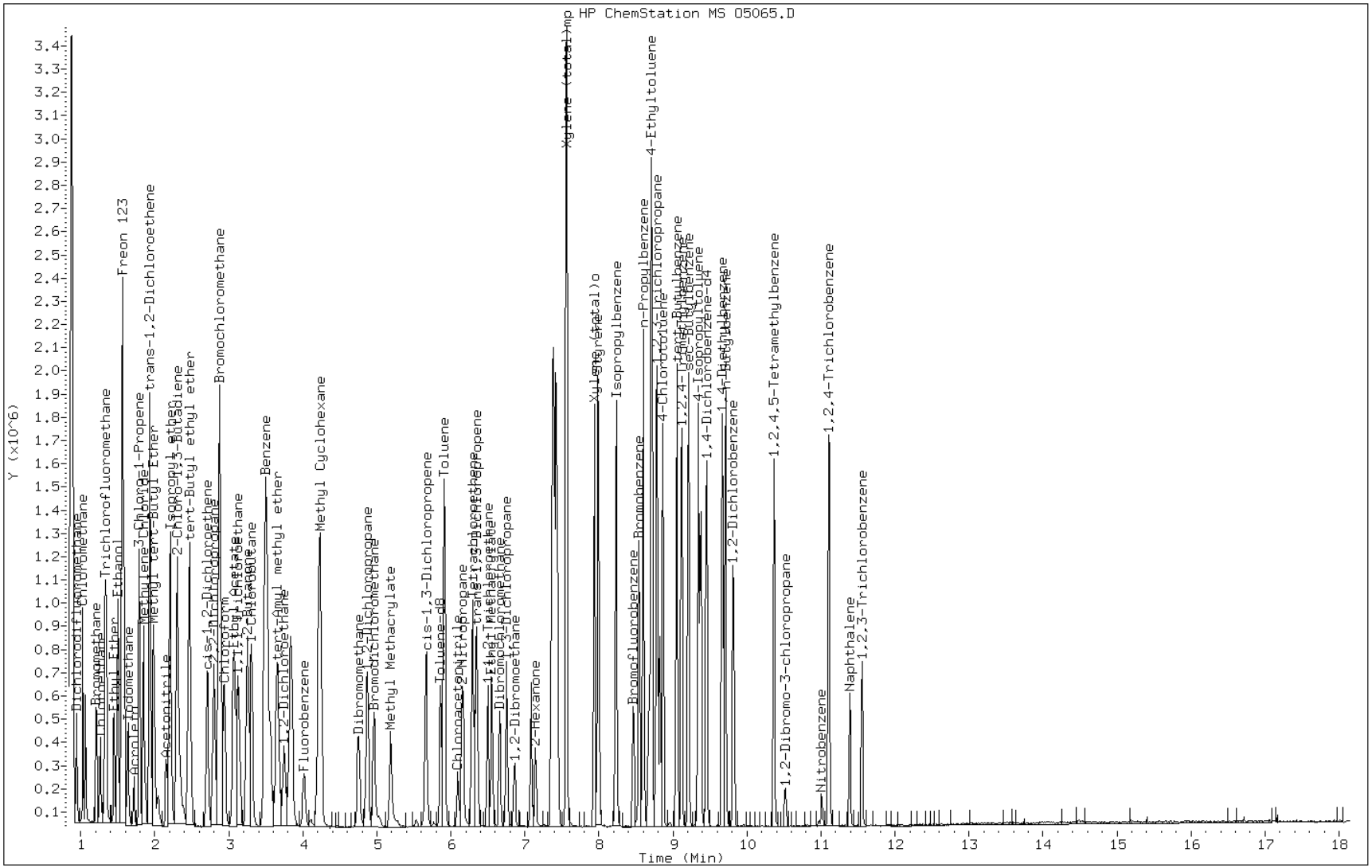
M - Compound response manually integrated.

Data File: O5065.D

Date: 23-DEC-2009 15:41

Client ID: CCVIS Instrument: mso.i

Sample Info: CCVIS Operator: D. HUMBERT



Manual Integration Report

Data File: O5065.D
Inj. Date and Time: 23-DEC-2009 15:41
Instrument ID: mso.i
Client ID: CCVIS
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/24/2009

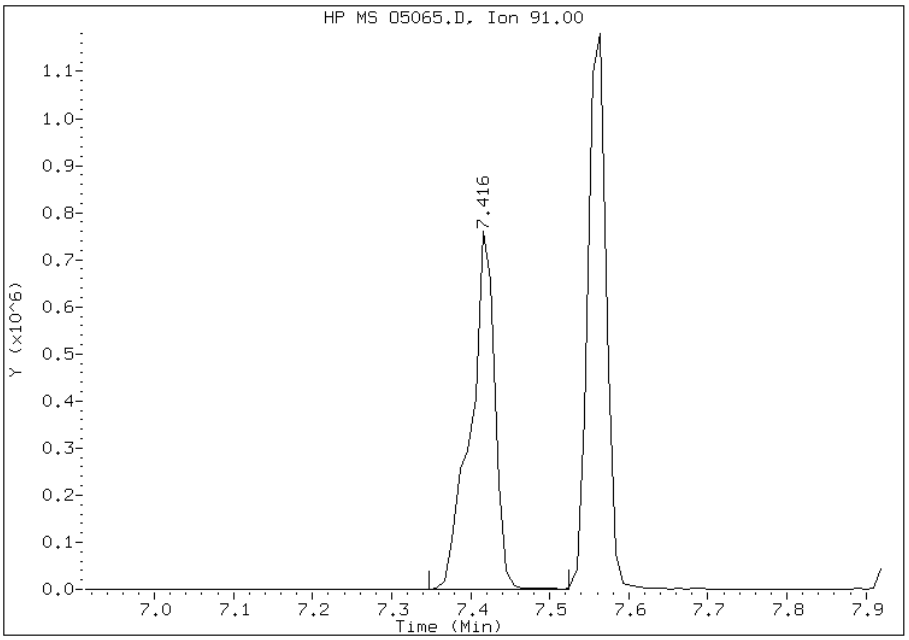
Processing Integration Results

RT: 7.42

Response: 1645038

Amount: 144

Conc: 144



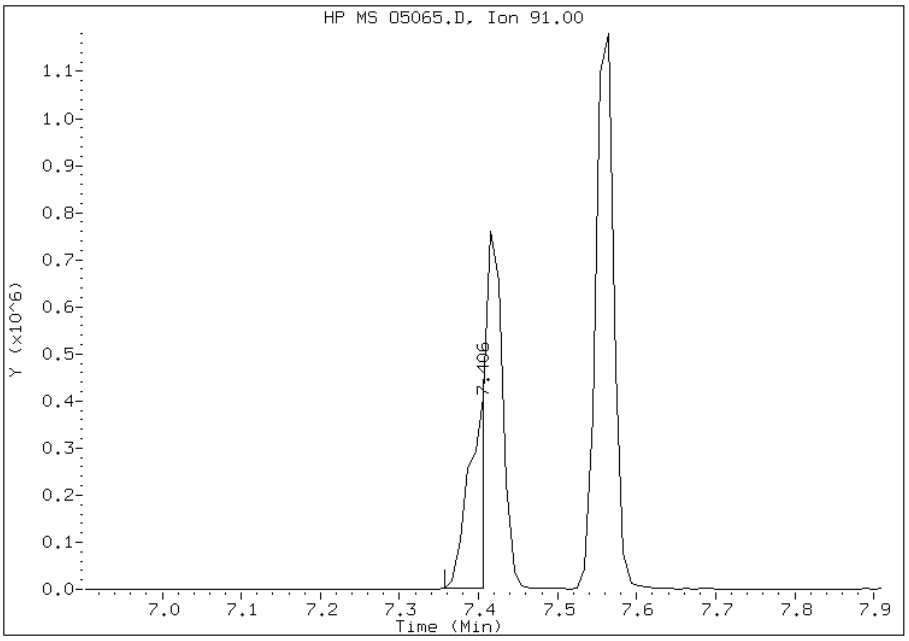
Manual Integration Results

RT: 7.41

Response: 632155

Amount: 55

Conc: 55



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34652/1 Calibration Date: 12/24/2009 07:53

Instrument ID: MSO Calib Start Date: 12/23/2009 10:57

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/23/2009 14:02

Lab File ID: O5093.D Conc. Units: ug/Kg Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4887	0.5039		51.5	50.0	3.1	30.0
Chloromethane	Ave	0.8038	0.7852	0.1000	48.8	50.0	-2.3	30.0
Vinyl chloride	Ave	0.6521	0.6496		49.8	50.0	-0.4	20.0
Bromomethane	Ave	0.4345	0.4520		52.0	50.0	4.0	30.0
Chloroethane	Ave	0.3587	0.3529		49.2	50.0	-1.6	30.0
Trichlorofluoromethane	Ave	0.8435	0.9009		53.4	50.0	6.8	30.0
Dichlorofluoromethane	Ave	1.209	1.208		49.9	50.0	-0.1	30.0
Ethyl ether	Ave	0.3215	0.3265		50.8	50.0	1.6	30.0
Ethanol	Ave	0.0343	0.0389		567	500	13.3	30.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.1873	0.1847		49.3	50.0	-1.4	30.0
1,1-Dichloroethene	Ave	0.3843	0.3682		47.9	50.0	-4.2	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.5022	0.5134		51.1	50.0	2.2	30.0
Carbon disulfide	Ave	1.805	1.745		48.3	50.0	-3.3	30.0
Iodomethane	Ave	0.6957	0.6202		44.6	50.0	-10.8	30.0
Acrolein	Ave	0.0498	0.0475		239	250	-4.6	30.0
3-Chloro-1-propene	Ave	1.214	1.144		47.1	50.0	-5.8	30.0
Isopropyl alcohol	Ave	0.0910	0.0924		50.8	50.0	1.5	30.0
Methylene Chloride	Ave	0.4986	0.4832		48.4	50.0	-3.1	30.0
Acetone	Ave	0.2823	0.2840		50.3	50.0	0.6	30.0
Methyl acetate	Ave	2.248	2.195		48.8	50.0	-2.3	30.0
trans-1,2-Dichloroethene	Ave	0.4919	0.4692		47.7	50.0	-4.6	30.0
Methyl tert-butyl ether	Ave	1.370	1.381		50.4	50.0	0.8	30.0
2-Methyl-2-propanol	Ave	0.0725	0.0743		256	250	2.4	30.0
Acetonitrile	Ave	0.0606	0.0595		490	499	-1.8	30.0
Isopropyl ether	Ave	2.386	2.330		48.8	50.0	-2.4	30.0
2-Chloro-1,3-butadiene	Ave	0.4034	0.3837		47.6	50.0	-4.9	30.0
1,1-Dichloroethane	Ave	1.156	1.123	0.1000	48.6	50.0	-2.8	30.0
Acrylonitrile	Ave	0.1829	0.1769		96.7	100	-3.3	30.0
Tert-butyl ethyl ether	Ave	1.931	1.954		50.6	50.0	1.2	30.0
Vinyl acetate	Lin	1.390	1.515		50.6	50.0	1.4	30.0
cis-1,2-Dichloroethene	Ave	0.5233	0.5148		49.2	50.0	-1.6	30.0
2,2-Dichloropropane	Ave	1.023	0.9956		48.7	50.0	-2.6	30.0
Chlorobromomethane	Ave	0.2356	0.2276		48.3	50.0	-3.4	30.0
Cyclohexane	Ave	0.8623	0.8023		46.5	50.0	-7.0	30.0
Chloroform	Ave	1.088	1.040		47.8	50.0	-4.4	20.0
Ethyl acetate	Ave	0.0358	0.0748		209	100	109.0*	30.0
Methyl acrylate	Ave	0.4330	0.4544		52.5	50.0	4.9	30.0
Carbon tetrachloride	Ave	0.8174	0.7555		46.2	50.0	-7.6	30.0
Tetrahydrofuran	Ave	0.1899	0.1885		99.3	100	-0.7	30.0
1,1,1-Trichloroethane	Ave	0.9069	0.8785		48.4	50.0	-3.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34652/1 Calibration Date: 12/24/2009 07:53

Instrument ID: MSO Calib Start Date: 12/23/2009 10:57

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/23/2009 14:02

Lab File ID: O5093.D Conc. Units: ug/Kg Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Butanone (MEK)	Ave	0.2955	0.3053		51.7	50.0	3.3	30.0
1,1-Dichloropropene	Ave	0.8629	0.8571		49.7	50.0	-0.7	30.0
1-Chlorobutane	Ave	1.431	1.378		48.1	50.0	-3.7	30.0
n-Heptane	Ave	1.298	1.261		48.6	50.0	-2.9	30.0
Benzene	Ave	2.006	1.925		48.0	50.0	-4.0	30.0
Propionitrile	Ave	0.0643	0.0592		460	500	-7.9	30.0
Methacrylonitrile	Ave	0.3432	0.3818		55.6	50.0	11.2	30.0
Isobutyl alcohol	Lin	0.0097	0.0087		497	499	-0.5	30.0
Tert-amyl methyl ether	Ave	1.436	1.396		48.6	50.0	-2.8	30.0
1,2-Dichloroethane	Ave	0.7961	0.8013		50.3	50.0	0.6	30.0
Methylcyclohexane	Ave	0.9432	0.9010		47.8	50.0	-4.5	30.0
Trichloroethene	Ave	0.5110	0.4917		48.1	50.0	-3.8	30.0
Dibromomethane	Ave	0.3042	0.3018		49.6	50.0	-0.8	30.0
1,2-Dichloropropane	Ave	0.5650	0.5512		48.8	50.0	-2.4	20.0
Dichlorobromomethane	Ave	0.7886	0.7546		47.8	50.0	-4.3	30.0
Methyl methacrylate	Ave	0.3318	0.3259		49.1	50.0	-1.8	30.0
1,4-Dioxane	Ave	0.0044	0.0047		526	499	5.4	30.0
2-Chloroethyl vinyl ether	Ave	0.1257	0.0582		23.1	49.9	-53.7*	30.0
cis-1,3-Dichloropropene	Ave	0.8693	0.8482		48.8	50.0	-2.4	30.0
Toluene	Ave	2.580	2.409		46.7	50.0	-6.6	20.0
Chloroacetonitrile	Ave	0.0190	0.0192		504	500	0.7	30.0
2-Nitropropane	Ave	0.1746	0.1737		99.5	100	-0.5	30.0
1,1-Dichloroacetone	Ave	0.4111	0.4136		252	250	0.6	30.0
Tetrachloroethene	Ave	0.5715	0.5200		45.5	50.0	-9.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7920	0.7424		46.9	50.0	-6.3	30.0
trans-1,3-Dichloropropene	Ave	0.7976	0.7873		49.4	50.0	-1.3	30.0
1,1,2-Trichloroethane	Ave	0.3365	0.3358		49.9	50.0	-0.2	30.0
Ethyl methacrylate	Ave	0.7739	0.7405		47.8	50.0	-4.3	30.0
Chlorodibromomethane	Ave	0.6236	0.5919		47.5	50.0	-5.1	30.0
1,3-Dichloropropane	Ave	0.8846	0.8933		50.5	50.0	1.0	30.0
Ethylene Dibromide	Ave	0.4700	0.4675		49.7	50.0	-0.5	30.0
2-Hexanone	Ave	0.6372	0.6300		49.4	50.0	-1.1	30.0
Chlorobenzene	Ave	1.505	1.441	0.3000	47.9	50.0	-4.3	30.0
1-Chlorohexane	Ave	1.395	1.312		47.0	50.0	-6.0	30.0
Ethylbenzene	Ave	0.8201	0.7480		45.6	50.0	-8.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5775	0.5367		46.5	50.0	-7.1	30.0
m-Xylene & p-Xylene	Ave	1.011	0.9200		91.0	100	-9.0	30.0
o-Xylene	Ave	0.9493	0.8687		45.8	50.0	-8.5	30.0
Bromoform	Ave	0.4139	0.3614	0.1000	43.7	50.0	-12.7	30.0
Styrene	Ave	1.520	1.433		47.1	50.0	-5.7	30.0
Isopropylbenzene	Ave	5.083	4.809		47.3	50.0	-5.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34652/1 Calibration Date: 12/24/2009 07:53

Instrument ID: MSO Calib Start Date: 12/23/2009 10:57

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/23/2009 14:02

Lab File ID: O5093.D Conc. Units: ug/Kg Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Ave	1.283	1.231		48.0	50.0	-4.0	30.0
N-Propylbenzene	Ave	6.700	6.513		48.6	50.0	-2.8	30.0
1,1,2,2-Tetrachloroethane	Ave	1.129	1.140	0.3000	50.5	50.0	1.0	30.0
4-Ethyltoluene	Ave	5.066	4.887		48.2	50.0	-3.5	30.0
2-Chlorotoluene	Ave	4.502	4.451		49.4	50.0	-1.1	30.0
1,2,3-Trichloropropane	Ave	0.3047	0.3124		51.3	50.0	2.5	30.0
1,3,5-Trimethylbenzene	Ave	4.213	4.028		47.8	50.0	-4.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4274	0.4449		104	100	4.1	30.0
4-Chlorotoluene	Ave	3.996	3.988		49.9	50.0	-0.2	30.0
tert-Butylbenzene	Ave	3.612	3.467		48.0	50.0	-4.0	30.0
1,2,4-Trimethylbenzene	Ave	4.083	3.916		48.0	50.0	-4.1	30.0
sec-Butylbenzene	Ave	5.487	5.295		48.2	50.0	-3.5	30.0
4-Isopropyltoluene	Ave	4.383	4.254		48.5	50.0	-2.9	30.0
1,3-Dichlorobenzene	Ave	2.219	2.131		48.0	50.0	-4.0	30.0
1,4-Dichlorobenzene	Ave	2.185	2.123		48.6	50.0	-2.9	30.0
p-Diethylbenzene	Ave	2.159	2.090		48.4	50.0	-3.2	30.0
Benzyl chloride	Ave	0.3474	0.3522		50.7	50.0	1.4	30.0
n-Butylbenzene	Ave	4.908	5.070		51.7	50.0	3.3	30.0
1,2-Dichlorobenzene	Ave	1.939	1.858		47.9	50.0	-4.2	30.0
1,2,4,5-Tetramethylbenzene	Ave	3.344	3.350		50.1	50.0	0.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1986	0.2009		50.6	50.0	1.1	30.0
Nitrobenzene	Lin	0.0408	0.0212		285	500	-43.0*	30.0
1,2,4-Trichlorobenzene	Lin	1.133	1.132		46.0	50.0	-8.1	30.0
Hexachlorobutadiene	Ave	1.080	1.010		46.8	50.0	-6.5	30.0
Naphthalene	Lin	1.792	2.005		51.8	50.0	3.6	30.0
1,2,3-Trichlorobenzene	Lin	0.9547	0.9267		44.8	50.0	-10.4	30.0
Dibromofluoromethane	Ave	0.4910	0.4212		21.4	25.0	-14.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.5699	0.5321		23.3	25.0	-6.6	30.0
Toluene-d8 (Surr)	Ave	1.921	1.669		21.7	25.0	-13.1	30.0
4-Bromofluorobenzene	Ave	1.615	1.483		23.0	25.0	-8.2	30.0

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095092.b\O5093.D
Lab Smp Id: CCVIS Client Smp ID: CCVIS
Inj Date : 24-DEC-2009 07:53 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : CCVIS
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095092.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:47 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 91 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
* 1	Fluorobenzene	96	4.007	4.007	(1.000)	271588	25.0000	
2	Dichlorodifluoromethane	85	0.941	0.941	(0.235)	273697	50.0000	52
3	Chloromethane	50	1.029	1.029	(0.257)	426494	50.0000	49
4	Vinyl Chloride	62	1.059	1.059	(0.264)	352865	50.0000	50
5	Bromomethane	94	1.207	1.207	(0.301)	245496	50.0000	52
6	Chloroethane	64	1.256	1.256	(0.314)	191688	50.0000	49
7	Trichlorofluoromethane	101	1.315	1.315	(0.328)	489331	50.0000	53
8	Dichlorofluoromethane	67	1.335	1.335	(0.333)	655980	50.0000	50
9	Ethyl Ether	45	1.443	1.443	(0.360)	177370	50.0000	51
10	Ethanol	45	1.493	1.493	(0.373)	211116	500.000	570
12	Freon 123	67	1.552	1.552	(0.387)	100316	50.0000	49
13	Trichlorotrifluoroethane	101	1.562	1.562	(0.390)	278840	50.0000	51
14	1,1-Dichloroethene	96	1.552	1.552	(0.387)	200007	50.0000	48
15	Carbon Disulfide	76	1.581	1.581	(0.395)	948033	50.0000	48
16	Iodomethane	142	1.631	1.631	(0.407)	336891	50.0000	44
17	Acrolein	56	1.710	1.710	(0.427)	129102	250.000	240
18	2-Propanol	45	1.798	1.798	(0.449)	50200	50.0000	51
19	3-Chloro-1-Propene	41	1.779	1.779	(0.444)	621390	50.0000	47
20	Methylene Chloride	84	1.838	1.838	(0.459)	262440	50.0000	48
21	Acetone	43	1.867	1.867	(0.466)	154270	50.0000	50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
	22 trans-1,2-Dichloroethene	96	1.926	1.926	(0.481)	254878	50.0000	48
	23 Methyl Acetate	43	1.926	1.926	(0.481)	1192386	50.0000	49
	24 Methyl tert-Butyl Ether	73	1.976	1.976	(0.493)	750117	50.0000	50
	25 tert-Butyl alcohol	59	2.035	2.035	(0.508)	201654	250.000	260
	26 Acetonitrile	41	2.143	2.143	(0.535)	322556	500.000	490
	27 Isopropyl ether	45	2.203	2.203	(0.550)	1265340	50.0000	49
	28 tert-Butyl ethyl ether	59	2.459	2.459	(0.614)	1061171	50.0000	50
	29 2-Chloro-1,3-Butadiene	88	2.291	2.291	(0.572)	208397	50.0000	48
	30 Acrylonitrile	53	2.341	2.341	(0.584)	192139	100.000	97
	31 1,1-Dichloroethane	63	2.301	2.301	(0.574)	610218	50.0000	48
	32 Vinyl Acetate	43	2.469	2.469	(0.616)	822537	50.0000	51
	33 cis-1,2-Dichloroethene	96	2.705	2.705	(0.675)	279614	50.0000	49
	34 2,2-Dichloropropane	77	2.794	2.794	(0.697)	540805	50.0000	49
	35 Bromochloromethane	128	2.873	2.873	(0.717)	123607	50.0000	48
	37 Cyclohexane	84	2.873	2.873	(0.717)	435793	50.0000	46
	38 Chloroform	83	2.932	2.932	(0.732)	564909	50.0000	48
	39 Ethyl Acetate	43	3.041	3.041	(0.759)	81307	100.000	210
	40 Methyl Acrylate	55	3.050	3.050	(0.761)	246796	50.0000	52
$	41 Dibromofluoromethane	111	3.090	3.090	(0.771)	114404	25.0000	21
	42 Tetrahydrofuran	42	3.070	3.070	(0.766)	204775	100.000	99
	43 Carbon Tetrachloride	117	3.060	3.060	(0.764)	410388	50.0000	46
	44 1,1,1-Trichloroethane	97	3.119	3.119	(0.779)	477197	50.0000	48
	45 2-Butanone	43	3.218	3.218	(0.803)	165853	50.0000	52
	46 1,1-Dichloropropene	75	3.238	3.238	(0.808)	465577	50.0000	50
	47 tert-Amyl methyl ether	73	3.642	3.642	(0.909)	758534	50.0000	49
	49 1-Chlorobutane	56	3.297	3.297	(0.823)	748611	50.0000	48
	50 Heptane	43	3.474	3.474	(0.867)	684922	50.0000	48
	51 Propionitrile	54	3.533	3.533	(0.882)	321719	500.000	460
	52 Benzene	78	3.504	3.504	(0.875)	1045827	50.0000	48
	53 2-Methyl-2-Propenenitrile	41	3.553	3.553	(0.887)	207378	50.0000	56
	54 Isobutyl alcohol	42	3.632	3.632	(0.907)	47181	500.000	500
$	55 1,2-Dichloroethane-d4	65	3.652	3.652	(0.911)	144512	25.0000	23
	56 1,2-Dichloroethane	62	3.740	3.740	(0.934)	435226	50.0000	50
	59 Methyl Cyclohexane	83	4.204	4.204	(1.049)	489376	50.0000	48
	60 Trichloroethene	130	4.233	4.233	(1.057)	267079	50.0000	48
	63 Dibromomethane	93	4.736	4.736	(1.182)	163903	50.0000	50
	64 1,2-Dichloropropane	63	4.855	4.855	(1.212)	299417	50.0000	49
	65 Bromodichloromethane	83	4.953	4.953	(1.236)	409901	50.0000	48
	66 Methyl Methacrylate	69	5.180	5.180	(1.293)	177005	50.0000	49
	67 1,4-Dioxane	58	5.219	5.219	(1.303)	25247	500.000	520
	69 2-Chloroethylvinylether	63	5.624	5.624	(1.403)	31538	50.0000	23
	70 cis-1,3-Dichloropropene	75	5.663	5.663	(1.413)	460720	50.0000	49
	71 Chloroacetonitrile	48	6.087	6.087	(1.519)	104021	500.000	500
	72 2-Nitropropane	41	6.146	6.146	(1.534)	188699	100.000	100
	73 trans-1,3-Dichloropropene	75	6.343	6.343	(1.583)	427658	50.0000	49
	74 1,1,2-Trichloroethane	97	6.491	6.491	(1.620)	182386	50.0000	50
*	75 Chlorobenzene-d5	117	7.349	7.349	(1.000)	216777	25.0000	
	76 Toluene	91	5.900	5.900	(0.803)	1044436	50.0000	47
$	77 Toluene-d8	98	5.850	5.850	(0.796)	361734	25.0000	22
	78 1,1-Dichloro-2-propanone	43	6.156	6.156	(0.838)	896645	250.000	250
	79 4-Methyl-2-Pentanone	43	6.314	6.314	(0.859)	321862	50.0000	47
	80 Tetrachloroethene	164	6.284	6.284	(0.855)	225463	50.0000	45
	81 Ethyl Methacrylate	69	6.550	6.550	(0.891)	321033	50.0000	48
	82 Dibromochloromethane	129	6.649	6.649	(0.905)	256606	50.0000	47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
83	1,3-Dichloropropane	76	6.747	6.747	(0.918)	387285	50.0000	50
84	1,2-Dibromoethane	107	6.856	6.856	(0.933)	202689	50.0000	50
86	2-Hexanone	43	7.132	7.132	(0.970)	273139	50.0000	49
87	1-Chlorohexane	91	7.398	7.398	(1.007)	568705	50.0000	47(M)
88	Chlorobenzene	112	7.368	7.368	(1.003)	624664	50.0000	48
89	1,1,1,2-Tetrachloroethane	131	7.438	7.438	(1.012)	232682	50.0000	46
90	Ethylbenzene	106	7.418	7.418	(1.009)	324298	50.0000	46
91	Xylene (total)mp	106	7.556	7.556	(1.028)	797723	100.000	91
92	Xylene (total)o	106	7.930	7.930	(1.079)	376627	50.0000	46
93	Styrene	104	7.990	7.990	(1.087)	621146	50.0000	47
94	Bromoform	173	7.990	7.990	(1.087)	156692	50.0000	44
* 95	1,4-Dichlorobenzene-d4	152	9.439	9.439	(1.000)	107778	25.0000	
96	Isopropylbenzene	105	8.226	8.226	(0.872)	1036570	50.0000	47
97	Bromobenzene	156	8.532	8.532	(0.904)	265441	50.0000	48
98	1,1,2,2-Tetrachloroethane	83	8.670	8.670	(0.919)	245701	50.0000	50
99	4-Ethyltoluene	105	8.699	8.699	(0.922)	1053491	50.0000	48
100	1,2,3-Trichloropropane	110	8.768	8.768	(0.929)	67344	50.0000	51
101	trans-1,4-Dichloro-2-Butene	53	8.818	8.818	(0.934)	191806	100.000	100
102	n-Propylbenzene	91	8.591	8.591	(0.910)	1403910	50.0000	49
103	2-Chlorotoluene	91	8.709	8.709	(0.923)	959483	50.0000	49
104	4-Chlorotoluene	91	8.857	8.857	(0.938)	859652	50.0000	50
105	1,3,5-Trimethylbenzene	105	8.778	8.778	(0.930)	868220	50.0000	48
106	tert-Butylbenzene	119	9.044	9.044	(0.958)	747436	50.0000	48
107	1,2,4-Trimethylbenzene	105	9.113	9.113	(0.966)	844134	50.0000	48
108	sec-Butylbenzene	105	9.202	9.202	(0.975)	1141317	50.0000	48
109	4-Isopropyltoluene	119	9.340	9.340	(0.990)	916917	50.0000	48
110	1,3-Dichlorobenzene	146	9.370	9.370	(0.993)	459268	50.0000	48
111	1,4-Dichlorobenzene	146	9.449	9.449	(1.001)	457545	50.0000	48
112	1,2-Dichlorobenzene	146	9.813	9.813	(1.040)	400490	50.0000	48
113	Benzyl Chloride	126	9.675	9.675	(1.025)	75908	50.0000	51
114	1,4-Diethylbenzene	119	9.656	9.656	(1.023)	450592	50.0000	48
115	n-Butylbenzene	91	9.705	9.705	(1.028)	1092883	50.0000	52
118	1,2,4,5-Tetramethylbenzene	119	10.356	10.356	(1.097)	722091	50.0000	50
119	1,2-Dibromo-3-chloropropane	75	10.513	10.513	(1.114)	43304	50.0000	50
120	Nitrobenzene	77	11.006	11.006	(1.166)	45787	500.000	280
121	1,2,4-Trichlorobenzene	180	11.105	11.105	(1.177)	244022	50.0000	46
122	Hexachlorobutadiene	225	11.105	11.105	(1.177)	217751	50.0000	47
123	Naphthalene	128	11.391	11.391	(1.207)	432202	50.0000	52
124	1,2,3-Trichlorobenzene	180	11.549	11.549	(1.224)	199745	50.0000	45
$ 125	Bromofluorobenzene	95	8.463	8.463	(0.897)	159857	25.0000	23
M 126	1,2-Dichloroethene (total)	100				534492	100.000	97
M 127	Xylene (total)	100				1174350	150.000	140

QC Flag Legend

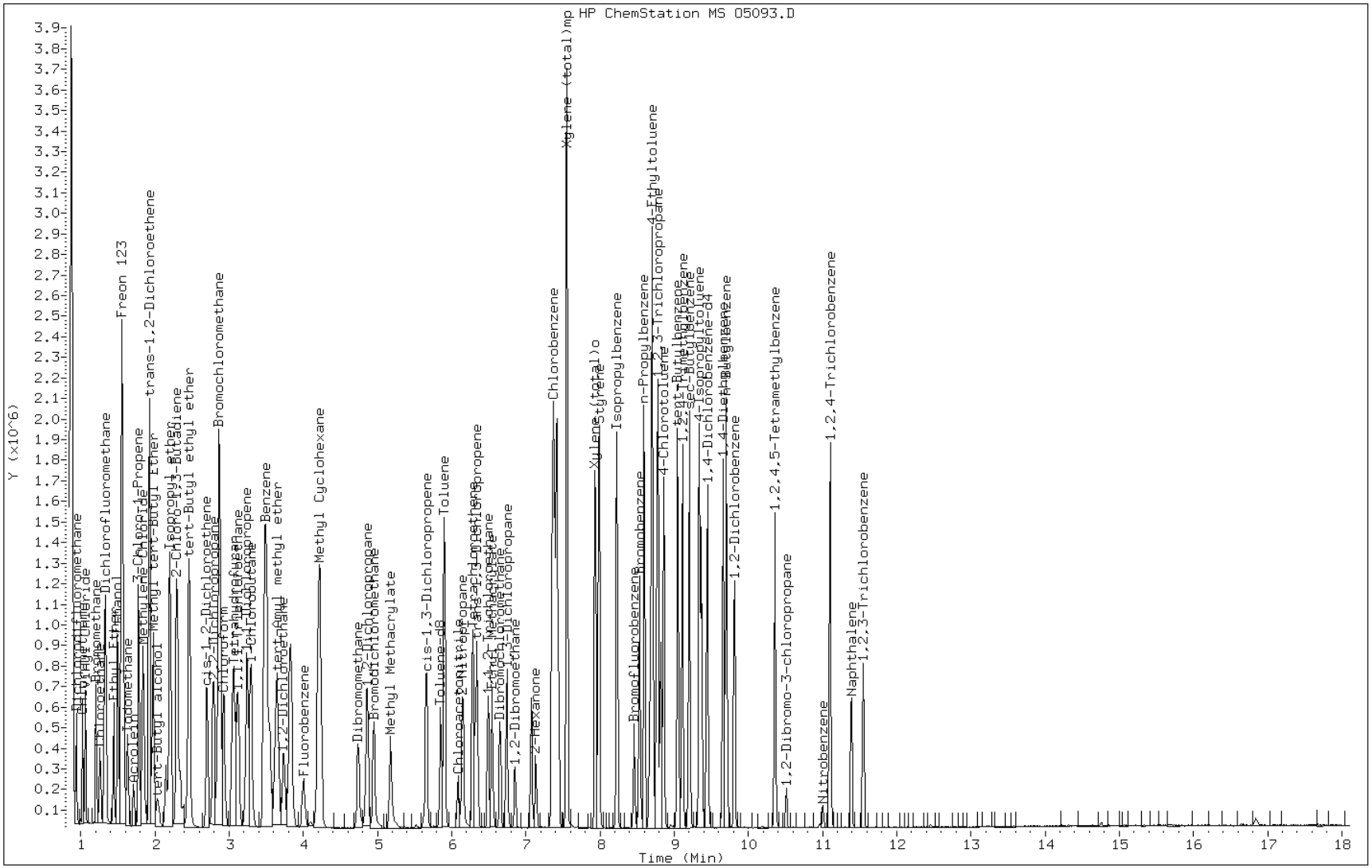
M - Compound response manually integrated.

Data File: O5093.D

Date: 24-DEC-2009 07:53

Client ID: CCVIS Instrument: mso.i

Sample Info: CCVIS Operator: D. HUMBERT



Manual Integration Report

Data File: O5093.D
Inj. Date and Time: 24-DEC-2009 07:53
Instrument ID: mso.i
Client ID: CCVIS
Compound: 87 1-Chlorohexane
CAS #: 544-10-5
Report Date: 12/24/2009

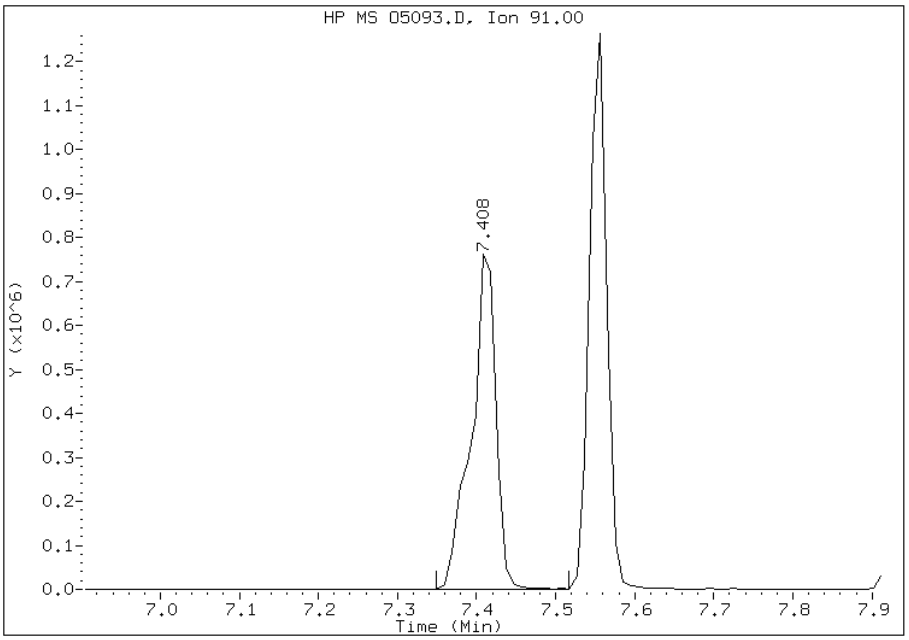
Processing Integration Results

RT: 7.41

Response: 1679024

Amount: 139

Conc: 139



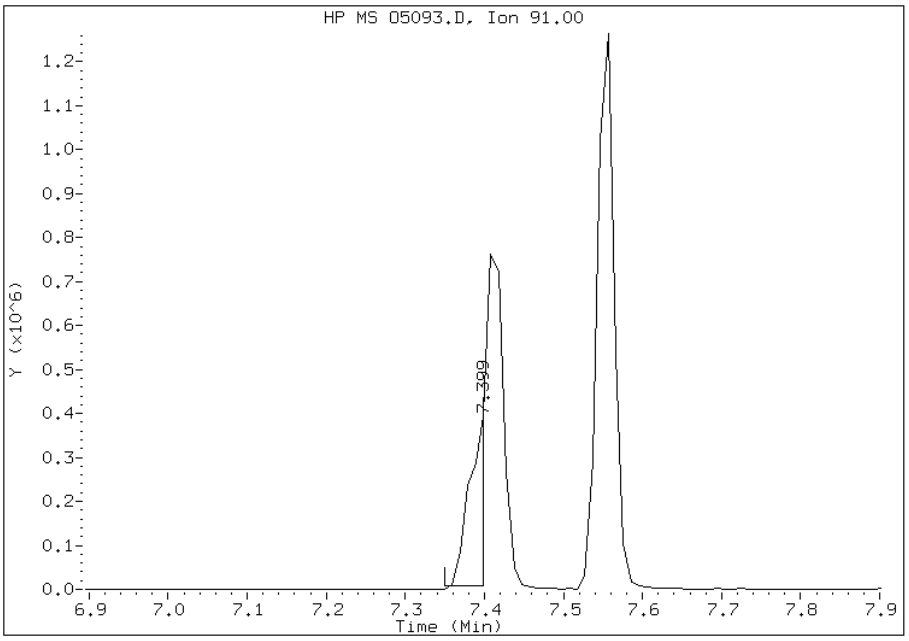
Manual Integration Results

RT: 7.40

Response: 568705

Amount: 47

Conc: 47



Manually Integrated By: dave
Manual Integration Reason: Incorrect peak integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34565/2 Calibration Date: 12/21/2009 11:11

Instrument ID: MSV Calib Start Date: 12/07/2009 15:46

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/07/2009 21:55

Lab File ID: V8898.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1351	0.1361		20.1	20.0	0.7	30.0
Chloromethane	Ave	0.1247	0.1065	0.1000	17.1	20.0	-14.6	30.0
Vinyl chloride	Ave	0.1888	0.1830		19.4	20.0	-3.1	20.0
Bromomethane	Lin	0.1112	0.0808		16.0	20.0	-19.9	30.0
Chloroethane	Ave	0.1183	0.1139		19.3	20.0	-3.7	30.0
Trichlorofluoromethane	Ave	0.4807	0.4832		20.1	20.0	0.5	30.0
Dichlorofluoromethane	Ave	0.3987	0.4300		21.6	20.0	7.9	30.0
Ethyl ether	Ave	0.1212	0.1305		21.5	20.0	7.6	30.0
Ethanol	Ave	0.0098	0.0113		230	200	14.9	30.0
1,1-Dichloroethene	Ave	0.1760	0.1672		19.0	20.0	-5.0	20.0
Carbon disulfide	Ave	0.6371	0.6096		19.1	20.0	-4.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2354	0.2319		19.7	20.0	-1.5	30.0
1,1,1-Trifluoro-2,2-dichloroethane	Ave	0.0570	0.0549		19.3	20.0	-3.7	30.0
Iodomethane	Lin	0.2257	0.2400		18.1	20.0	-9.7	30.0
Acrolein	Lin	0.0030	0.0052		177	100	76.4*	30.0
3-Chloro-1-propene	Ave	0.3320	0.3325		20.0	20.0	0.1	30.0
Isopropyl alcohol	Ave	0.0112	0.0161		28.8	20.0	44.2*	30.0
Methylene Chloride	Ave	0.2092	0.2140		20.5	20.0	2.3	30.0
Acetone	Ave	0.0444	0.0855		38.5	20.0	92.7*	30.0
trans-1,2-Dichloroethene	Ave	0.2272	0.2200		19.4	20.0	-3.2	30.0
Methyl acetate	Ave	0.5623	0.7904		28.1	20.0	40.6*	30.0
Methyl tert-butyl ether	Ave	0.6782	0.7217		21.3	20.0	6.4	30.0
2-Methyl-2-propanol	Ave	0.0112	0.0199		177	100	77.0*	30.0
Acetonitrile	Ave	0.0114	0.0182		319	200	59.6*	30.0
Isopropyl ether	Ave	0.7002	0.7082		20.2	20.0	1.1	30.0
2-Chloro-1,3-butadiene	Ave	0.1801	0.1666		18.5	20.0	-7.5	30.0
1,1-Dichloroethane	Ave	0.4323	0.4378	0.1000	20.3	20.0	1.3	30.0
Acrylonitrile	Ave	0.0525	0.0753		57.4	40.0	43.5*	30.0
Tert-butyl ethyl ether	Ave	0.7611	0.7975		21.0	20.0	4.8	30.0
Vinyl acetate	Ave	0.4885	0.4942		20.2	20.0	1.2	30.0
cis-1,2-Dichloroethene	Ave	0.2513	0.2435		19.4	20.0	-3.1	30.0
2,2-Dichloropropane	Ave	0.4236	0.4377		20.7	20.0	3.3	30.0
Chlorobromomethane	Ave	0.1224	0.1205		19.7	20.0	-1.6	30.0
Cyclohexane	Ave	0.3373	0.3179		18.8	20.0	-5.8	30.0
Chloroform	Ave	0.4496	0.4600		20.5	20.0	2.3	20.0
Carbon tetrachloride	Ave	0.4066	0.4196		20.6	20.0	3.2	30.0
Ethyl acetate	Ave	0.0177	0.0224		50.6	40.0	26.6	30.0
Methyl acrylate	Ave	0.1571	0.1859		23.7	20.0	18.3	30.0
Tetrahydrofuran	Ave	0.0407	0.0617		60.6	40.0	51.6*	30.0
1,1,1-Trichloroethane	Ave	0.4475	0.4673		20.9	20.0	4.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34565/2 Calibration Date: 12/21/2009 11:11

Instrument ID: MSV Calib Start Date: 12/07/2009 15:46

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/07/2009 21:55

Lab File ID: V8898.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Butanone (MEK)	Ave	0.0627	0.0972		31.0	20.0	54.9*	30.0
1,1-Dichloropropene	Ave	0.3475	0.3394		19.5	20.0	-2.3	30.0
1-Chlorobutane	Ave	0.4804	0.4842		20.2	20.0	0.8	30.0
Benzene	Ave	0.9351	0.8988		19.2	20.0	-3.9	30.0
Propionitrile	Ave	0.0143	0.0257		359	200	79.6*	30.0
n-Heptane	Ave	0.2787	0.2552		18.3	20.0	-8.4	30.0
Methacrylonitrile	Ave	0.2776	0.2869		20.7	20.0	3.3	30.0
Isobutyl alcohol	Ave	0.0028	0.0031		215	200	7.8	30.0
Tert-amyl methyl ether	Ave	0.6328	0.6628		20.9	20.0	4.7	30.0
1,2-Dichloroethane	Ave	0.3476	0.3806		21.9	20.0	9.5	30.0
Methylcyclohexane	Ave	0.4166	0.3876		18.6	20.0	-7.0	30.0
Trichloroethene	Ave	0.2650	0.2594		19.6	20.0	-2.1	30.0
Dibromomethane	Ave	0.1392	0.1444		20.7	20.0	3.7	30.0
1,2-Dichloropropane	Ave	0.2386	0.2379		19.9	20.0	-0.3	20.0
Dichlorobromomethane	Ave	0.3261	0.3424		21.0	20.0	5.0	30.0
Methyl methacrylate	Ave	0.1302	0.1381		21.2	20.0	6.0	30.0
1,4-Dioxane	Lin	0.0009	0.0009		202	200	1.3	30.0
2-Chloroethyl vinyl ether	Ave	0.1171	0.0036		5.00	20.0	-96.9*	30.0
cis-1,3-Dichloropropene	Ave	0.3755	0.3816		20.3	20.0	1.6	30.0
Toluene	Ave	1.577	1.378		17.5	20.0	-12.6	20.0
Chloroacetonitrile	Ave	0.0033	0.0049		299	200	49.3*	30.0
2-Nitropropane	Ave	0.0431	0.0604		56.1	40.0	40.2*	30.0
1,1-Dichloroacetone	Ave	0.1082	0.1372		127	100	26.8	30.0
Tetrachloroethene	Ave	0.3594	0.3078		17.1	20.0	-14.4	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2063	0.2471		24.0	20.0	19.8	30.0
trans-1,3-Dichloropropene	Ave	0.3569	0.3801		21.3	20.0	6.5	30.0
1,1,2-Trichloroethane	Ave	0.1816	0.1859		20.5	20.0	2.4	30.0
Ethyl methacrylate	Ave	0.3437	0.3397		19.8	20.0	-1.1	30.0
Chlorodibromomethane	Ave	0.3747	0.3701		19.8	20.0	-1.2	30.0
1,3-Dichloropropane	Ave	0.5220	0.4867		18.6	20.0	-6.8	30.0
Ethylene Dibromide	Ave	0.3098	0.2931		18.9	20.0	-5.4	30.0
2-Hexanone	Ave	0.1310	0.1768		27.0	20.0	35.0*	30.0
Chlorobenzene	Ave	0.8978	0.8122	0.3000	18.1	20.0	-9.5	30.0
1-Chlorohexane	Ave	0.3850	0.2780		14.4	20.0	-27.8	30.0
Ethylbenzene	Ave	0.4874	0.4491		18.4	20.0	-7.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3660	0.3544		19.4	20.0	-3.2	30.0
m-Xylene & p-Xylene	Ave	0.5432	0.4929		36.3	40.0	-9.3	30.0
o-Xylene	Ave	0.4918	0.4371		17.8	20.0	-11.1	30.0
Bromoform	Ave	0.2110	0.2215	0.1000	21.0	20.0	5.0	30.0
Styrene	Ave	0.7567	0.6795		18.0	20.0	-10.2	30.0
Isopropylbenzene	Ave	3.305	3.239		19.6	20.0	-2.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34565/2 Calibration Date: 12/21/2009 11:11

Instrument ID: MSV Calib Start Date: 12/07/2009 15:46

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 12/07/2009 21:55

Lab File ID: V8898.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Ave	0.8838	0.8704		19.7	20.0	-1.5	30.0
N-Propylbenzene	Ave	3.510	3.317		18.9	20.0	-5.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6324	0.6796	0.3000	21.5	20.0	7.5	30.0
4-Ethyltoluene	Ave	2.996	2.798		18.7	20.0	-6.6	30.0
2-Chlorotoluene	Ave	2.495	2.402		19.3	20.0	-3.7	30.0
1,2,3-Trichloropropane	Ave	0.2129	0.2480		23.3	20.0	16.5	30.0
1,3,5-Trimethylbenzene	Ave	2.499	2.333		18.7	20.0	-6.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2260	0.2662		47.1	40.0	17.8	30.0
4-Chlorotoluene	Ave	2.253	2.106		18.7	20.0	-6.5	30.0
tert-Butylbenzene	Ave	2.075	1.904		18.4	20.0	-8.2	30.0
1,2,4-Trimethylbenzene	Ave	2.433	2.213		18.2	20.0	-9.1	30.0
sec-Butylbenzene	Ave	2.840	2.531		17.8	20.0	-10.9	30.0
4-Isopropyltoluene	Ave	2.358	2.009		17.0	20.0	-14.8	30.0
1,3-Dichlorobenzene	Ave	1.350	1.172		17.4	20.0	-13.2	30.0
1,4-Dichlorobenzene	Ave	1.367	1.171		17.1	20.0	-14.3	30.0
p-Diethylbenzene	Ave	1.229	0.9891		16.1	20.0	-19.5	30.0
Benzyl chloride	Ave	0.2456	0.2485		20.2	20.0	1.2	30.0
n-Butylbenzene	Ave	2.106	1.721		16.3	20.0	-18.3	30.0
1,2-Dichlorobenzene	Ave	1.243	1.046		16.8	20.0	-15.9	30.0
1,2,4,5-Tetramethylbenzene	Ave	2.156	1.728		16.0	20.0	-19.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1174	0.1034		17.6	20.0	-11.9	30.0
Nitrobenzene	Qua	0.0363	0.0313		172	200	-13.8	30.0
Hexachlorobutadiene	Ave	0.4986	0.4140		16.6	20.0	-17.0	30.0
1,2,4-Trichlorobenzene	Ave	1.014	0.7996		15.8	20.0	-21.1	30.0
Naphthalene	Ave	1.908	1.524		16.0	20.0	-20.1	30.0
1,2,3-Trichlorobenzene	Ave	0.9580	0.7635		15.9	20.0	-20.3	30.0
Dibromofluoromethane	Ave	0.2356	0.2250		23.9	25.0	-4.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2877	0.2896		25.2	25.0	0.6	30.0
Toluene-d8 (Surr)	Ave	1.366	1.147		21.0	25.0	-16.0	30.0
4-Bromofluorobenzene	Ave	1.006	0.9234		22.9	25.0	-8.2	30.0

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8898.D
Lab Smp Id: CCVIS Client Smp ID: CCVIS
Inj Date : 21-DEC-2009 11:11 MS Autotune Date: 17-AUG-2009 09:58
Operator : B.KOSTRZEWSKA Inst ID: msv.i
Smp Info : CCVIS
Misc Info : : ;;; ; 8260 ; 1; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8260LOW.m
Meth Date : 22-Dec-2009 10:29 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 21:55 Cal File: V8468.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	5.483	5.483	(1.000)	1202552	25.0000	
2	Dichlorodifluoromethane	85	1.187	1.187	(0.217)	130941	20.0000	20
3	Chloromethane	50	1.315	1.315	(0.240)	102486	20.0000	17
4	Vinyl Chloride	62	1.374	1.374	(0.251)	176057	20.0000	19
5	Bromomethane	94	1.598	1.598	(0.291)	77712	20.0000	16
6	Chloroethane	64	1.694	1.694	(0.309)	109617	20.0000	19
7	Trichlorofluoromethane	101	1.795	1.795	(0.327)	464828	20.0000	20
8	Dichlorofluoromethane	67	1.838	1.838	(0.335)	413712	20.0000	22
9	Ethyl Ether	45	2.030	2.030	(0.370)	125557	20.0000	22
10	Ethanol	45	2.105	2.105	(0.384)	108690	200.000	230
12	Freon 123	67	2.238	2.238	(0.408)	52826	20.0000	19
13	Trichlorotrifluoroethane	101	2.228	2.228	(0.406)	223084	20.0000	20
14	1,1-Dichloroethene	96	2.190	2.190	(0.399)	160823	20.0000	19
15	Carbon Disulfide	76	2.212	2.212	(0.403)	586475	20.0000	19
16	Iodomethane	142	2.302	2.302	(0.420)	230846	20.0000	18
17	Acrolein	56	2.462	2.462	(0.449)	24980	100.000	180
18	2-Propanol	45	2.628	2.628	(0.479)	15505	20.0000	29(M)
19	3-Chloro-1-Propene	41	2.596	2.596	(0.473)	319843	20.0000	20
20	Methylene Chloride	84	2.692	2.692	(0.491)	205896	20.0000	20
21	Acetone	43	2.729	2.729	(0.498)	82252	20.0000	38
22	trans-1,2-Dichloroethene	96	2.857	2.857	(0.521)	211674	20.0000	19
23	Methyl Acetate	43	2.868	2.868	(0.523)	760376	20.0000	28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Methyl tert-Butyl Ether	73	2.975	2.975	(0.543)	694318	20.0000	21
	25 tert-Butyl alcohol	59	3.071	3.071	(0.560)	95779	100.000	180
	26 Acetonitrile	41	3.183	3.183	(0.581)	174556	200.000	320
	27 Isopropyl ether	45	3.391	3.391	(0.618)	681310	20.0000	20
	28 tert-Butyl ethyl ether	59	3.786	3.786	(0.691)	767189	20.0000	21
	29 2-Chloro-1,3-Butadiene	88	3.471	3.471	(0.633)	160232	20.0000	18
	30 Acrylonitrile	53	3.530	3.530	(0.644)	144956	40.0000	57
	31 1,1-Dichloroethane	63	3.492	3.492	(0.637)	421210	20.0000	20
	32 Vinyl Acetate	43	3.786	3.786	(0.691)	475095	20.0000	20
	33 cis-1,2-Dichloroethene	96	4.074	4.074	(0.743)	234280	20.0000	19
	34 2,2-Dichloropropane	77	4.186	4.186	(0.763)	421049	20.0000	21
	35 Bromochloromethane	128	4.282	4.282	(0.781)	115899	20.0000	20
	37 Cyclohexane	84	4.293	4.293	(0.783)	305799	20.0000	19
	38 Chloroform	83	4.384	4.384	(0.799)	442573	20.0000	20
	39 Ethyl Acetate	43	4.538	4.538	(0.828)	43039	40.0000	51
	40 Methyl Acrylate	55	4.538	4.538	(0.828)	178811	20.0000	24
$	41 Dibromofluoromethane	111	4.576	4.576	(0.835)	270512	20.0000	24
	42 Tetrahydrofuran	42	4.538	4.538	(0.828)	118727	40.0000	61
	43 Carbon Tetrachloride	117	4.528	4.528	(0.826)	403644	20.0000	21
	44 1,1,1-Trichloroethane	97	4.597	4.597	(0.838)	449518	20.0000	21
	45 2-Butanone	43	4.715	4.715	(0.860)	93478	20.0000	31
	46 1,1-Dichloropropene	75	4.741	4.741	(0.865)	326537	20.0000	20
	47 tert-Amyl methyl ether	73	5.179	5.179	(0.945)	637668	20.0000	21
	49 1-Chlorobutane	56	4.800	4.800	(0.875)	465811	20.0000	20
	50 Heptane	43	5.024	5.024	(0.916)	245552	20.0000	18
	51 Propionitrile	54	5.019	5.019	(0.915)	246898	200.000	360
	52 Benzene	78	5.008	5.008	(0.913)	864691	20.0000	19
	53 2-Methyl-2-Propenenitrile	41	5.035	5.035	(0.918)	275969	20.0000	21
	54 Isobutyl alcohol	42	5.173	5.173	(0.944)	29276	200.000	220
$	55 1,2-Dichloroethane-d4	65	5.152	5.152	(0.940)	348202	20.0000	25
	56 1,2-Dichloroethane	62	5.227	5.227	(0.953)	366177	20.0000	22
	59 Methyl Cyclohexane	83	5.670	5.670	(1.034)	372902	20.0000	19
	60 Trichloroethene	130	5.680	5.680	(1.036)	249569	20.0000	20
	63 Dibromomethane	93	6.145	6.145	(1.121)	138933	20.0000	21
	64 1,2-Dichloropropane	63	6.268	6.268	(1.143)	228912	20.0000	20
	65 Bromodichloromethane	83	6.364	6.364	(1.161)	329363	20.0000	21
	66 Methyl Methacrylate	69	6.593	6.593	(1.202)	132848	20.0000	21
	67 1,4-Dioxane	58	6.598	6.598	(1.203)	8690	200.000	200
	69 2-Chloroethylvinylether	63	7.111	7.111	(1.297)	3447	20.0000	0.6(M)
	70 cis-1,3-Dichloropropene	75	7.116	7.116	(1.298)	367068	20.0000	20
	71 Chloroacetonitrile	48	7.575	7.575	(1.382)	46972	200.000	300
	72 2-Nitropropane	41	7.660	7.660	(1.397)	116204	40.0000	56
	73 trans-1,3-Dichloropropene	75	7.922	7.922	(1.445)	365702	20.0000	21
	74 1,1,2-Trichloroethane	97	8.109	8.109	(1.479)	178827	20.0000	20
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	808024	25.0000	
	76 Toluene	91	7.404	7.404	(0.800)	890707	20.0000	17
$	77 Toluene-d8	98	7.340	7.340	(0.793)	926867	20.0000	21
	78 1,1-Dichloro-2-propanone	43	7.687	7.687	(0.831)	443588	100.000	130
	79 4-Methyl-2-Pentanone	43	7.890	7.890	(0.853)	159736	20.0000	24
	80 Tetrachloroethene	164	7.869	7.869	(0.851)	198959	20.0000	17
	81 Ethyl Methacrylate	69	8.183	8.183	(0.885)	219599	20.0000	20
	82 Dibromochloromethane	129	8.317	8.317	(0.899)	239255	20.0000	20
	83 1,3-Dichloropropane	76	8.434	8.434	(0.912)	314605	20.0000	19
	84 1,2-Dibromoethane	107	8.578	8.578	(0.927)	189446	20.0000	19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
86	2-Hexanone	43	8.952	8.952	(0.968)	114286	20.0000	27
87	1-Chlorohexane	91	9.299	9.299	(1.005)	179728	20.0000	14(H)
88	Chlorobenzene	112	9.267	9.267	(1.002)	525039	20.0000	18
89	1,1,1,2-Tetrachloroethane	131	9.358	9.358	(1.012)	229066	20.0000	19
90	Ethylbenzene	106	9.336	9.336	(1.009)	290299	20.0000	18
91	Xylene (total)mp	106	9.512	9.512	(1.028)	637221	40.0000	36
92	Xylene (total)o	106	9.961	9.961	(1.077)	282517	20.0000	18
93	Styrene	104	10.019	10.019	(1.083)	439266	20.0000	18
94	Bromoform	173	10.014	10.014	(1.082)	143197	20.0000	21
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	286545	25.0000	
96	Isopropylbenzene	105	10.286	10.286	(0.895)	742428	20.0000	20
97	Bromobenzene	156	10.612	10.612	(0.924)	199536	20.0000	20
98	1,1,2,2-Tetrachloroethane	83	10.740	10.740	(0.935)	155780	20.0000	21
99	4-Ethyltoluene	105	10.777	10.777	(0.938)	641404	20.0000	19
100	1,2,3-Trichloropropane	110	10.836	10.836	(0.943)	56853	20.0000	23
101	trans-1,4-Dichloro-2-Butene	53	10.889	10.889	(0.948)	122058	40.0000	47
102	n-Propylbenzene	91	10.676	10.676	(0.929)	760396	20.0000	19
103	2-Chlorotoluene	91	10.788	10.788	(0.939)	550567	20.0000	19
104	4-Chlorotoluene	91	10.937	10.937	(0.952)	482863	20.0000	19
105	1,3,5-Trimethylbenzene	105	10.857	10.857	(0.945)	534748	20.0000	19
106	tert-Butylbenzene	119	11.124	11.124	(0.968)	436499	20.0000	18
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	507270	20.0000	18
108	sec-Butylbenzene	105	11.274	11.274	(0.981)	580127	20.0000	18
109	4-Isopropyltoluene	119	11.396	11.396	(0.992)	460579	20.0000	17
110	1,3-Dichlorobenzene	146	11.423	11.423	(0.994)	268558	20.0000	17
111	1,4-Dichlorobenzene	146	11.498	11.498	(1.001)	268493	20.0000	17
112	1,2-Dichlorobenzene	146	11.823	11.823	(1.029)	239842	20.0000	17
113	Benzyl Chloride	126	11.701	11.701	(1.019)	56959	20.0000	20
114	1,4-Diethylbenzene	119	11.685	11.685	(1.017)	226734	20.0000	16
115	n-Butylbenzene	91	11.727	11.727	(1.021)	394496	20.0000	16
118	1,2,4,5-Tetramethylbenzene	119	12.298	12.298	(1.071)	396097	20.0000	16
119	1,2-Dibromo-3-chloropropane	75	12.426	12.426	(1.082)	23698	20.0000	18
120	Nitrobenzene	77	12.832	12.832	(1.117)	71713	200.000	170
121	1,2,4-Trichlorobenzene	180	12.923	12.923	(1.125)	183290	20.0000	16
122	Hexachlorobutadiene	225	12.912	12.912	(1.124)	94905	20.0000	17
123	Naphthalene	128	13.152	13.152	(1.145)	349289	20.0000	16
124	1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	175028	20.0000	16
$ 125	Bromofluorobenzene	95	10.526	10.526	(0.916)	264593	20.0000	23
M 126	1,2-Dichloroethene (total)	100				445954	40.0000	39
M 127	Xylene (total)	100				919738	60.0000	54

QC Flag Legend

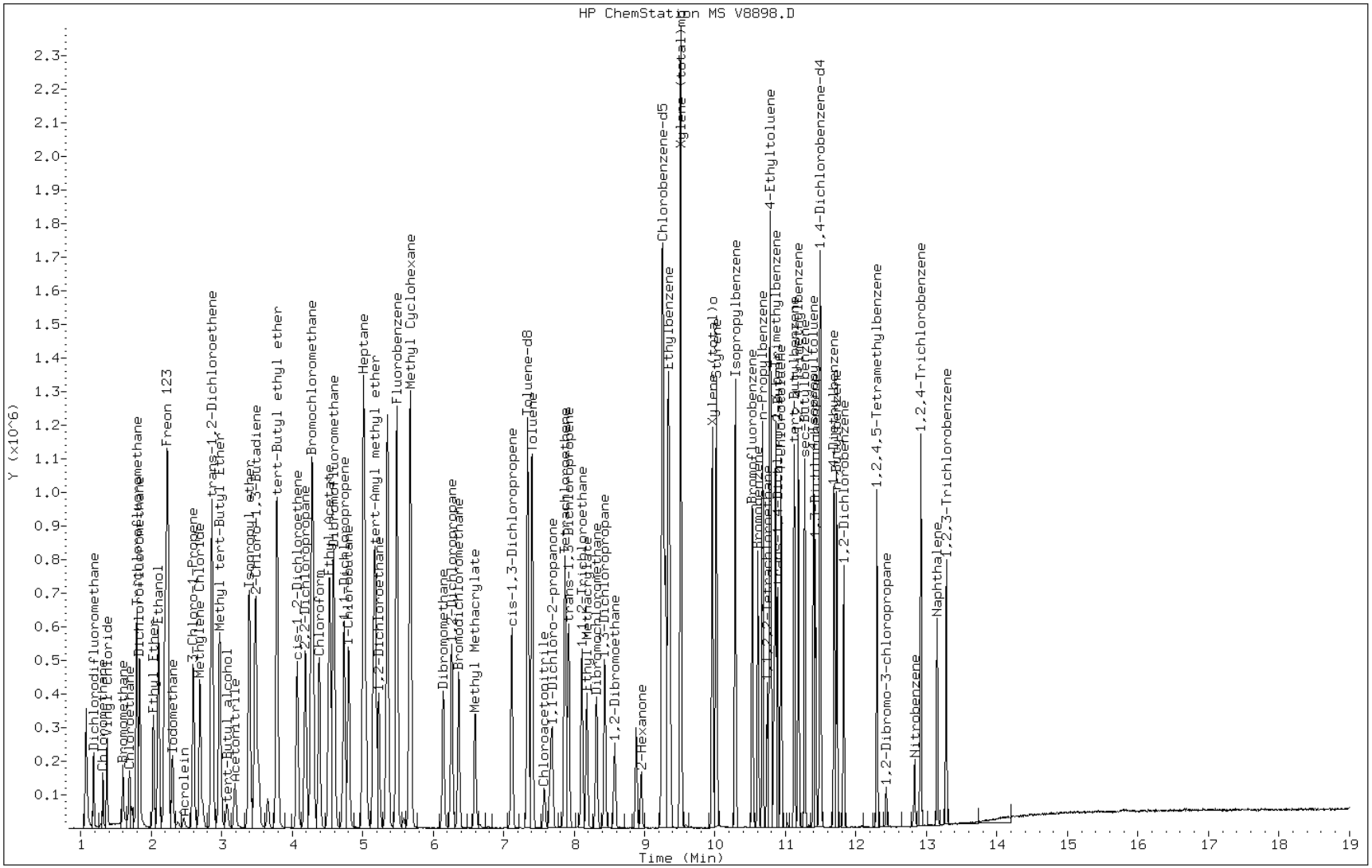
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: V8898.D

Date: 21-DEC-2009 11:11

Client ID: CCVIS Instrument: msv.i

Sample Info: CCVIS Operator: B.KOSTRZEWSKA



Manual Integration Report

Data File: V8898.D
Inj. Date and Time: 21-DEC-2009 11:11
Instrument ID: msv.i
Client ID: CCVIS
Compound: 18 2-Propanol
CAS #: 67-63-0
Report Date: 12/22/2009

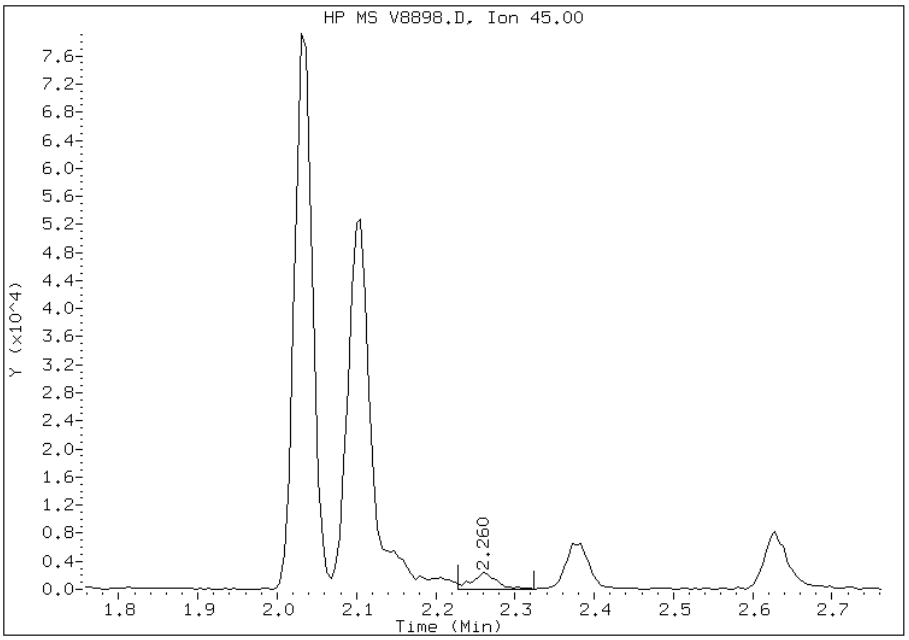
Processing Integration Results

RT: 2.26

Response: 5374

Amount: 10

Conc: 10



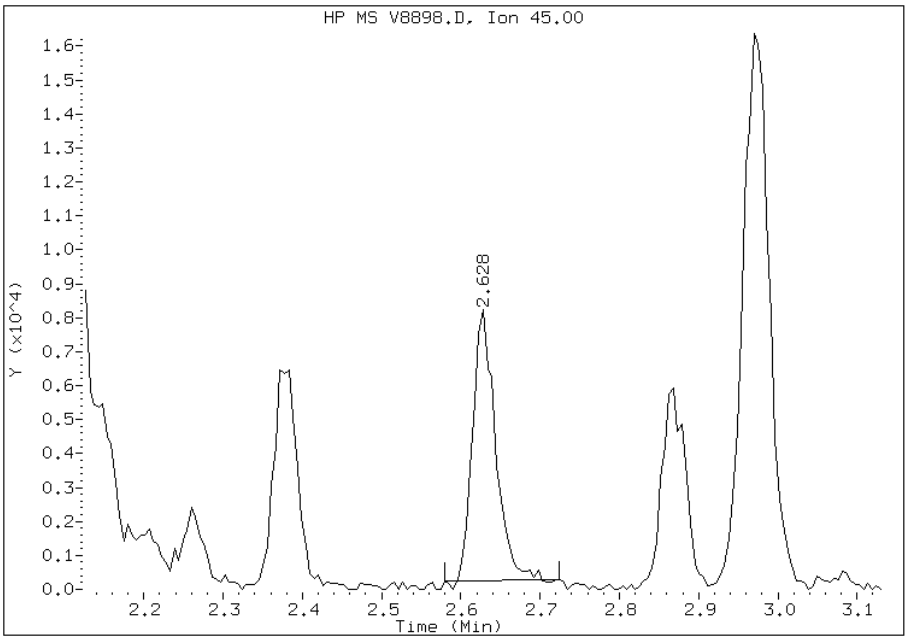
Manual Integration Results

RT: 2.63

Response: 15505

Amount: 29

Conc: 29



Manually Integrated By: barbara
Manual Integration Reason: Incorrect peak integration

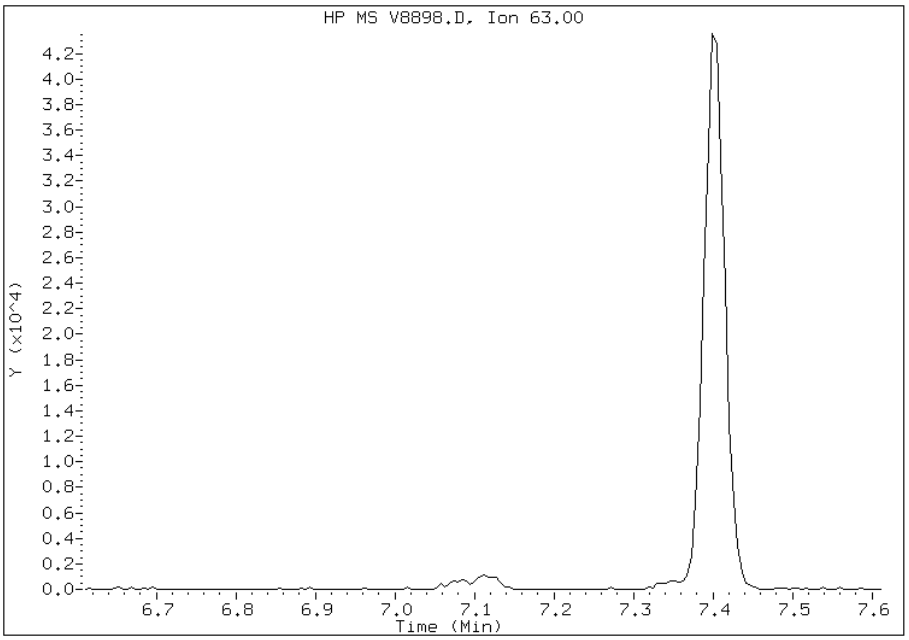
Manual Integration Report

Data File: V8898.D
Inj. Date and Time: 21-DEC-2009 11:11
Instrument ID: msv.i
Client ID: CCVIS
Compound: 69 2-Chloroethylvinylether
CAS #: 110-75-8
Report Date: 12/22/2009

Processing Integration Results

Not Detected

Expected RT: 7.11



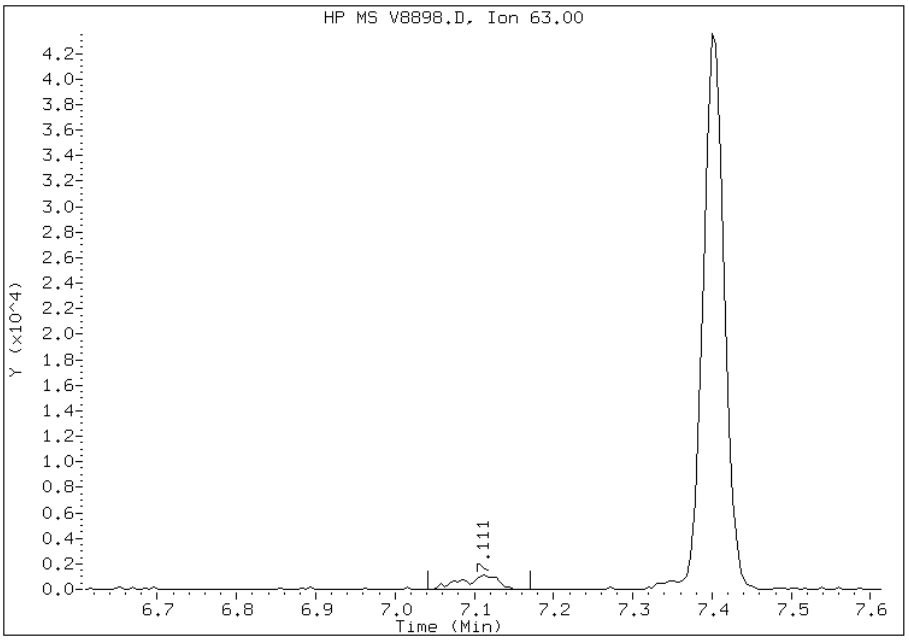
Manual Integration Results

RT: 7.11

Response: 3447

Amount: 1

Conc: 1



Manually Integrated By: barbara
Manual Integration Reason: Incorrect peak integration

Test America Inc

Data file : \\consvr05\Files\chem\VOA\mso.i\O095055.b\OB556.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 23-DEC-2009 10:32 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : BFB
Misc Info : ;;; 50ng 4-BFB ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095055.b\OBFB8260.m
Meth Date : 19-May-2008 16:13 pattym Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 4 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CON1006

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.815	3.200	(0.000)	95	82771			0.00- 100.00	100.00
2.815	3.200	(0.000)	50	22266			15.00- 40.00	26.90
2.815	3.200	(0.000)	75	43795			30.00- 60.00	52.91
2.815	3.200	(0.000)	96	6162			5.00- 9.00	7.44
2.815	3.200	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
2.815	3.200	(0.000)	174	70874			50.00- 100.00	85.63
2.815	3.200	(0.000)	175	5450			5.00- 9.00	7.69
2.815	3.200	(0.000)	176	71520			95.00- 101.00	100.91
2.815	3.200	(0.000)	177	4905			5.00- 9.00	6.86

Data File: OB556.D

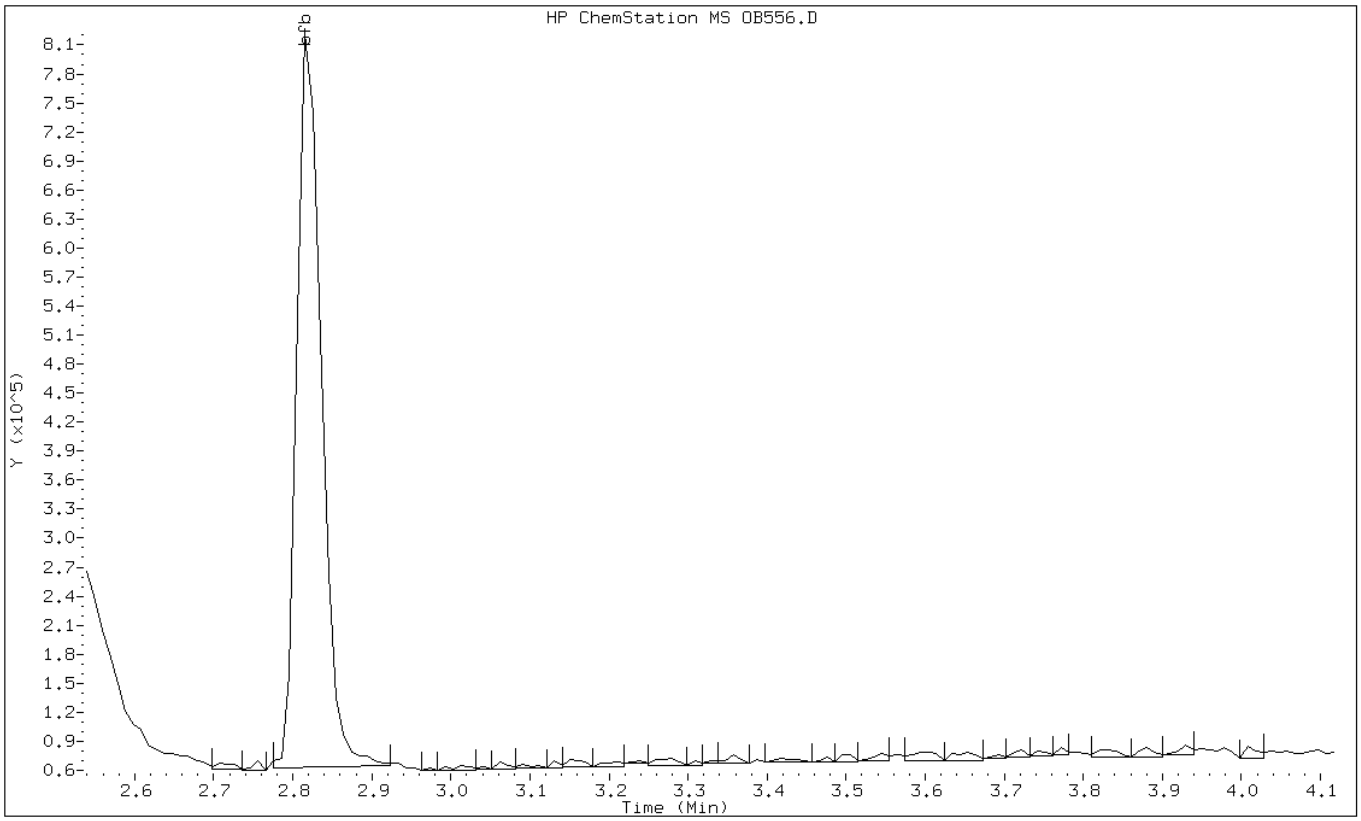
Date: 23-DEC-2009 10:32

Client ID: BFB

Instrument: mso.i

Sample Info: BFB

Operator: D. HUMBERT



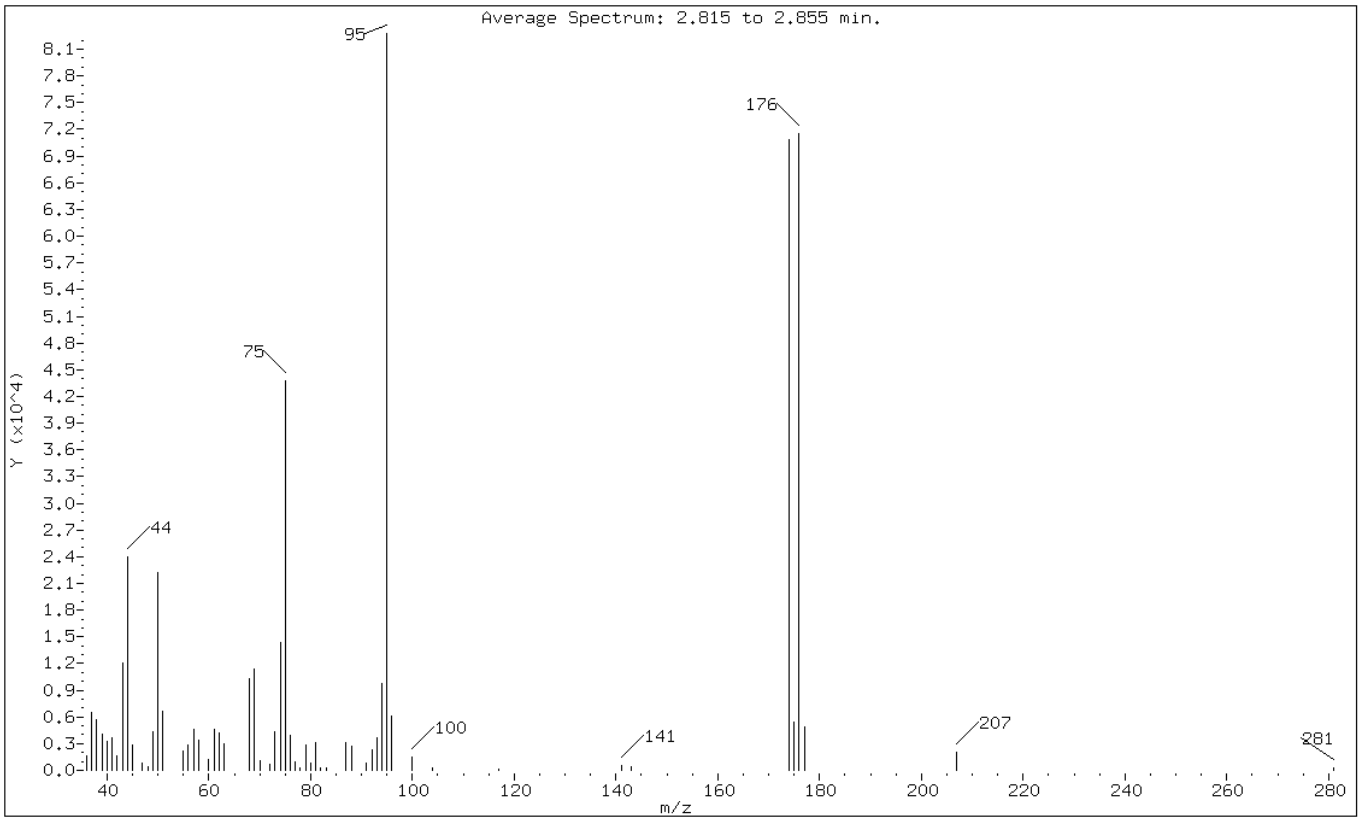
Data File: OB556.D

Date: 23-DEC-2009 10:32

Client ID: BFB Instrument: mso.i

Sample Info: BFB Operator: D. HUMBERT

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.90
75	30.00 - 60.00% of mass 95	52.91
96	5.00 - 9.00% of mass 95	7.44
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	85.63
175	5.00 - 9.00% of mass 174	6.58 (7.69)
176	95.00 - 101.00% of mass 174	86.41 (100.91)
177	5.00 - 9.00% of mass 176	5.93 (6.86)

Data File: OB556.D

Date: 23-DEC-2009 10:32

Client ID: BFB Instrument: mso.i

Sample Info: BFB Operator: D. HUMBERT

Data File: \\consvr05\Files\chem\VOA\mso.i\O095055.b\OB556.D
Spectrum: Average Spectrum: 2.815 to 2.855 min.
Location of Maximum: 95.00
Number of points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1580	55.00	2205	76.00	3951	96.00	6162
37.00	6523	56.00	2884	77.00	937	100.00	1521
38.00	5648	57.00	4665	78.00	221	104.00	222
39.00	4040	58.00	3332	79.00	2805	117.00	200
40.00	3288	60.00	1197	80.00	825	141.00	572
41.00	3703	61.00	4631	81.00	3126	143.00	456
42.00	1616	62.00	4197	82.00	209	174.00	70872
43.00	12015	63.00	2968	83.00	230	175.00	5450
44.00	24000	68.00	10358	87.00	3049	176.00	71520
45.00	2824	69.00	11353	88.00	2714	177.00	4905
47.00	845	70.00	1128	91.00	770	207.00	1986
48.00	352	72.00	700	92.00	2308	281.00	207
49.00	4382	73.00	4295	93.00	3618		
50.00	22264	74.00	14309	94.00	9718		
51.00	6659	75.00	43792	95.00	82768		

Test America Inc

Data file : \\consvr05\Files\chem\VOA\mso.i\O095064.b\OB557.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 23-DEC-2009 14:38 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : BFB
Misc Info : ;;; 50ng 4-BFB ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\OBFB8260.m
Meth Date : 19-May-2008 16:13 pattym Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 4 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CON1006

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.828	3.200	(0.000)	95	94456			0.00- 100.00	100.00
2.828	3.200	(0.000)	50	25760			15.00- 40.00	27.27
2.828	3.200	(0.000)	75	54072			30.00- 60.00	57.25
2.828	3.200	(0.000)	96	6799			5.00- 9.00	7.20
2.828	3.200	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
2.828	3.200	(0.000)	174	73088			50.00- 100.00	77.38
2.828	3.200	(0.000)	175	5664			5.00- 9.00	7.75
2.828	3.200	(0.000)	176	73416			95.00- 101.00	100.45
2.828	3.200	(0.000)	177	5209			5.00- 9.00	7.10

Data File: OB557.D

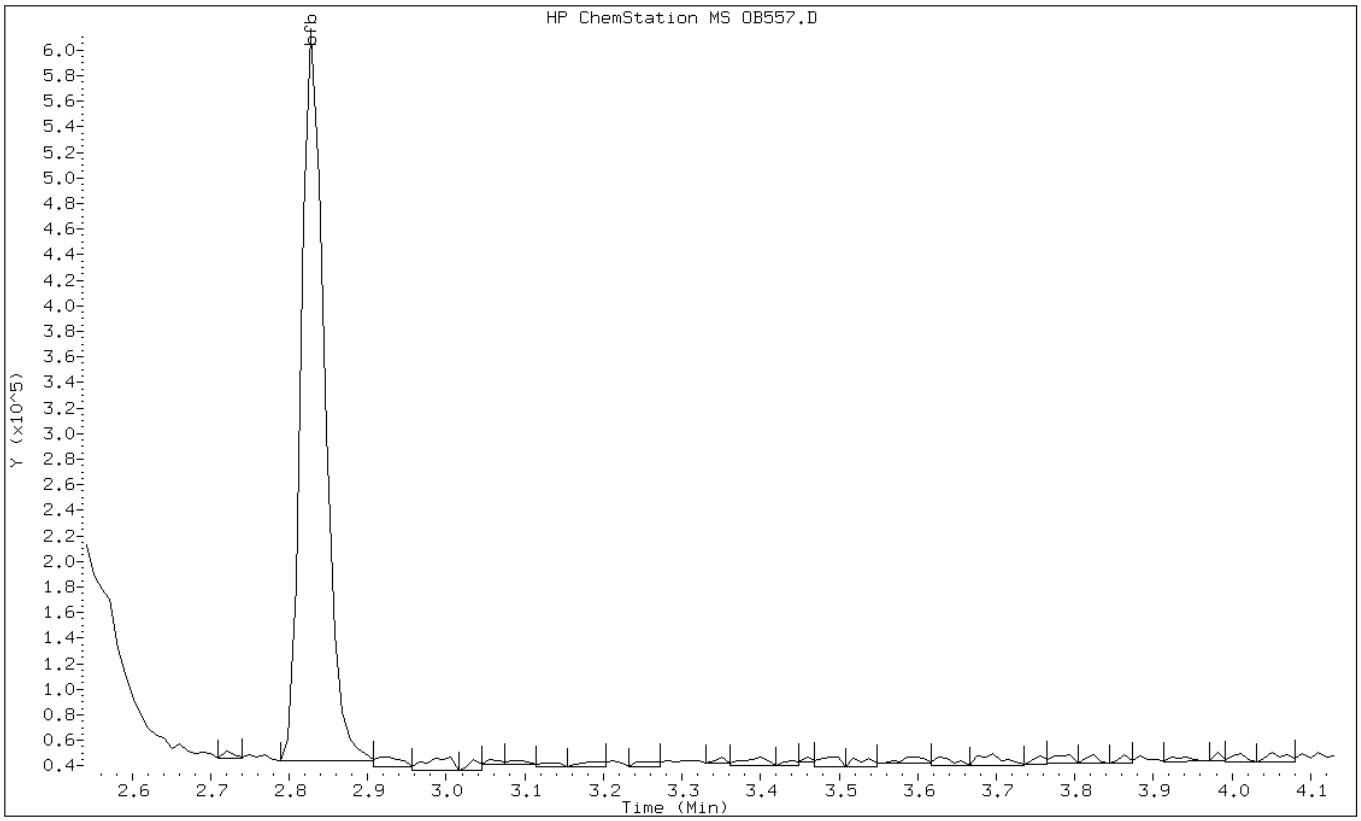
Date: 23-DEC-2009 14:38

Client ID: BFB

Instrument: mso.i

Sample Info: BFB

Operator: D. HUMBERT



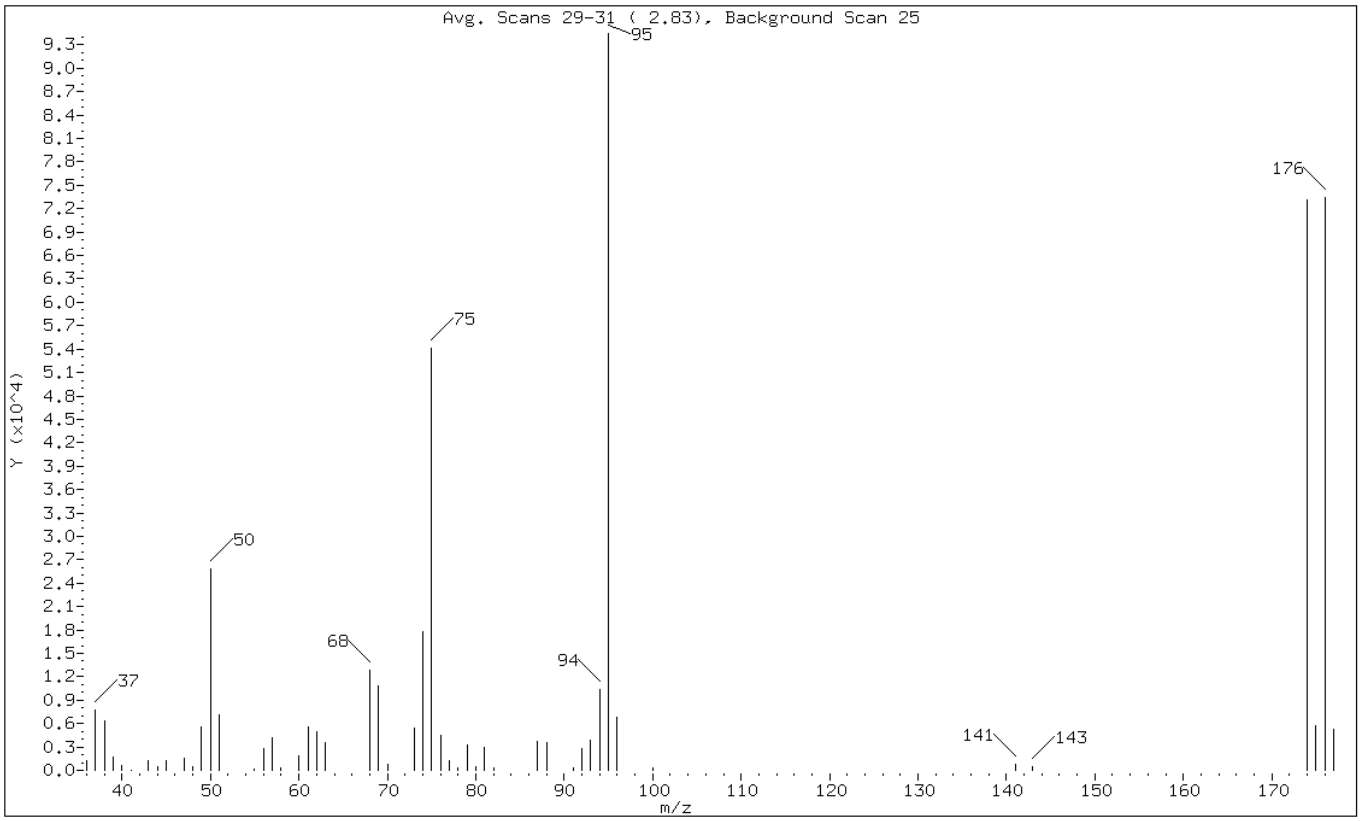
Data File: OB557.D

Date: 23-DEC-2009 14:38

Client ID: BFB Instrument: mso.i

Sample Info: BFB Operator: D. HUMBERT

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.27
75	30.00 - 60.00% of mass 95	57.25
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.38
175	5.00 - 9.00% of mass 174	6.00 (7.75)
176	95.00 - 101.00% of mass 174	77.73 (100.45)
177	5.00 - 9.00% of mass 176	5.51 (7.10)

Data File: OB557.D

Date: 23-DEC-2009 14:38

Client ID: BFB Instrument: mso.i

Sample Info: BFB Operator: D. HUMBERT

Data File: \\consvr05\Files\chem\VOA\mso.i\O095064.b\OB557.D
Spectrum: Avg. Scans 29-31 (2.83), Background Scan 25
Location of Maximum: 95.00
Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1301	51.00	7180	74.00	17728	93.00	3881
37.00	7678	55.00	154	75.00	54072	94.00	10385
38.00	6345	56.00	2734	76.00	4520	95.00	94456
39.00	1759	57.00	4145	77.00	1162	96.00	6799
40.00	663	58.00	326	78.00	352	100.00	312
41.00	23	60.00	1868	79.00	3302	141.00	711
43.00	1314	61.00	5519	80.00	392	143.00	422
44.00	530	62.00	5004	81.00	2918	174.00	73088
45.00	1251	63.00	3587	82.00	342	175.00	5664
47.00	1497	68.00	12875	87.00	3693	176.00	73416
48.00	442	69.00	10883	88.00	3614	177.00	5209
49.00	5501	70.00	721	91.00	367		
50.00	25760	73.00	5452	92.00	2799		

Test America Inc

Data file : \\consvr05\Files\chem\VOA\mso.i\O095092.b\OB558.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-DEC-2009 07:29 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : BFB
Misc Info : ;;; 50ng 4-BFB ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095092.b\OBFB8260.m
Meth Date : 19-May-2008 16:13 pattym Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 4 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CON1006

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.820	3.200	(0.000)	95	96144			0.00- 100.00	100.00
2.820	3.200	(0.000)	50	25896			15.00- 40.00	26.93
2.820	3.200	(0.000)	75	52904			30.00- 60.00	55.03
2.820	3.200	(0.000)	96	6775			5.00- 9.00	7.05
2.820	3.200	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
2.820	3.200	(0.000)	174	70744			50.00- 100.00	73.58
2.820	3.200	(0.000)	175	5180			5.00- 9.00	7.32
2.820	3.200	(0.000)	176	68704			95.00- 101.00	97.12
2.820	3.200	(0.000)	177	4718			5.00- 9.00	6.87

Data File: OB558.D

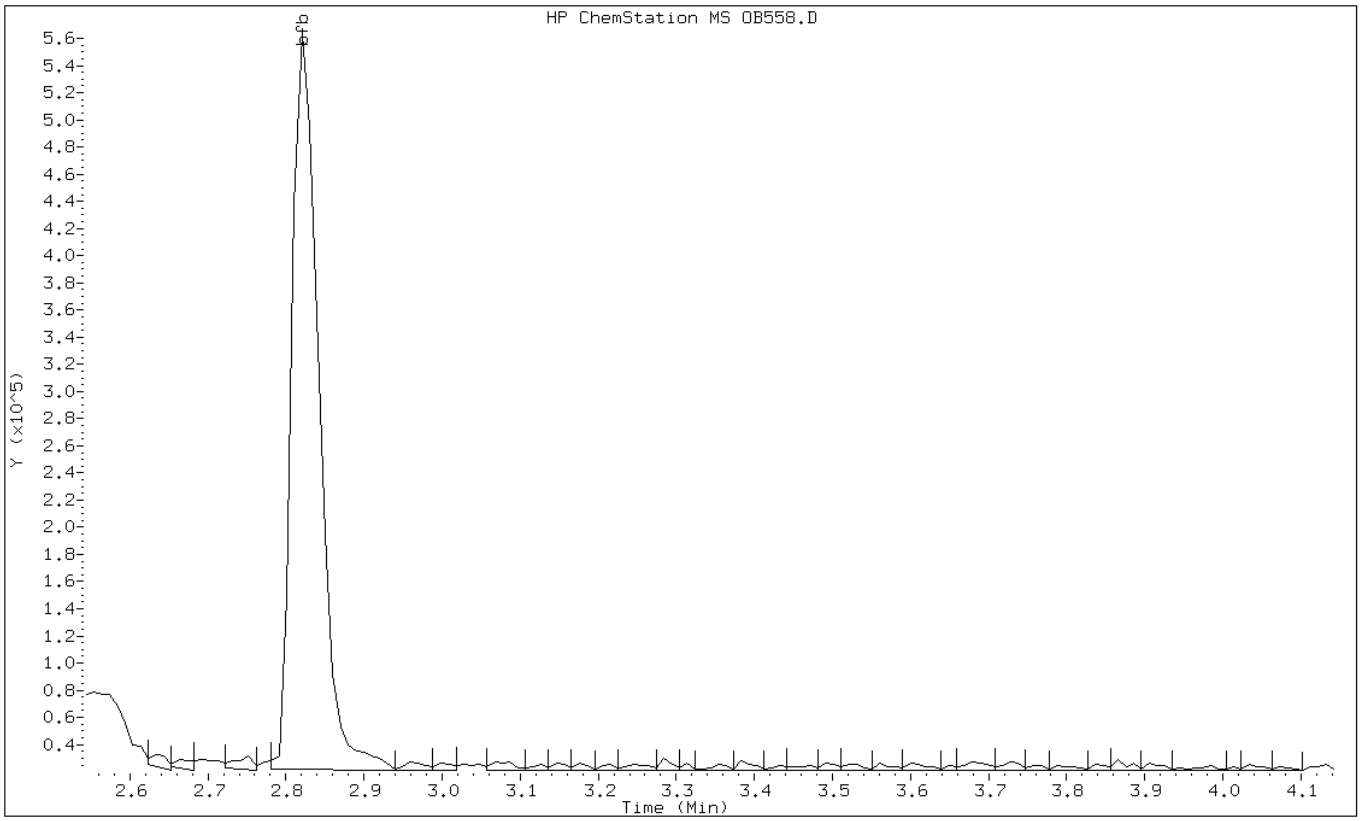
Date: 24-DEC-2009 07:29

Client ID: BFB

Instrument: mso.i

Sample Info: BFB

Operator: D. HUMBERT



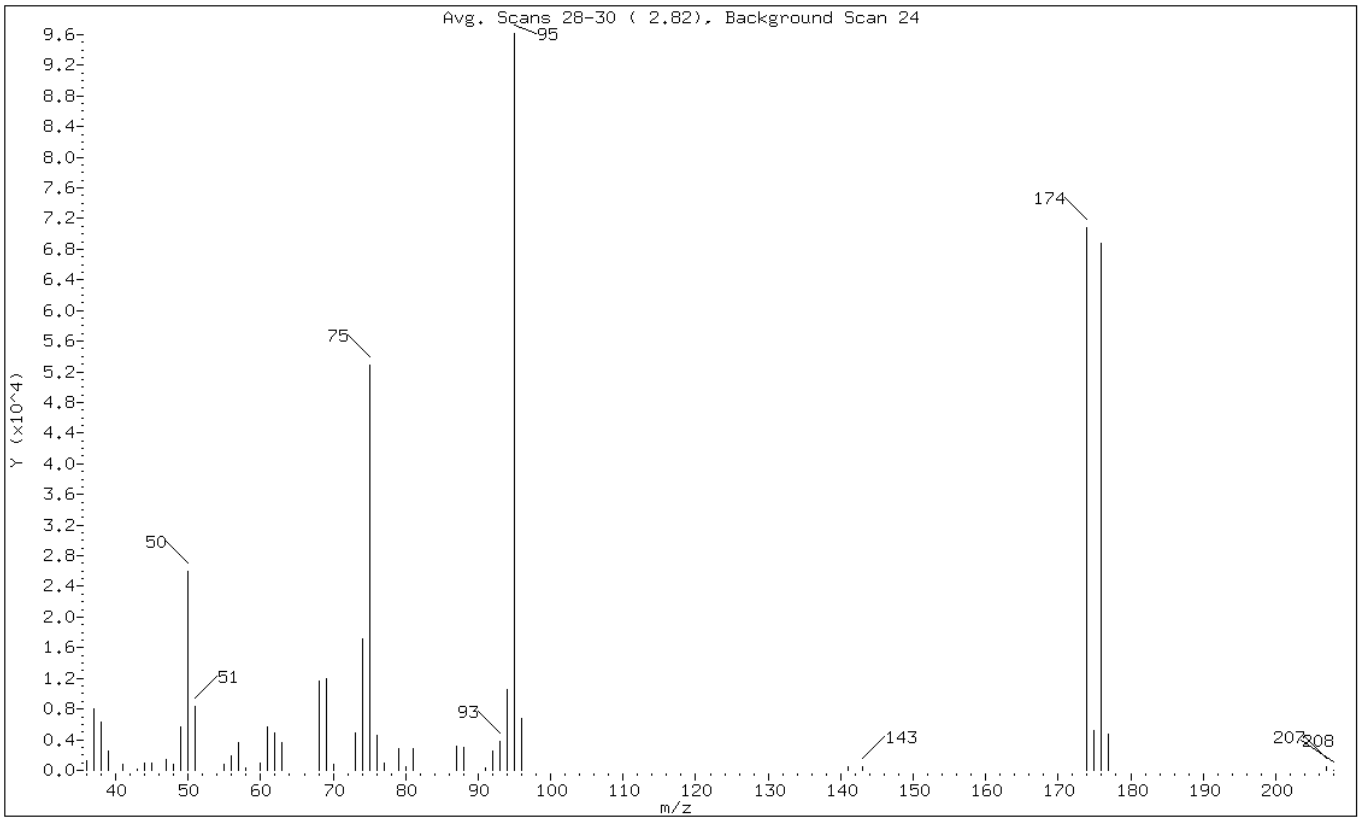
Data File: OB558.D

Date: 24-DEC-2009 07:29

Client ID: BFB Instrument: mso.i

Sample Info: BFB Operator: D. HUMBERT

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.93
75	30.00 - 60.00% of mass 95	55.03
96	5.00 - 9.00% of mass 95	7.05
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	73.58
175	5.00 - 9.00% of mass 174	5.39 (7.32)
176	95.00 - 101.00% of mass 174	71.46 (97.12)
177	5.00 - 9.00% of mass 176	4.91 (6.87)

Data File: OB558.D

Date: 24-DEC-2009 07:29

Client ID: BFB Instrument: mso.i

Sample Info: BFB Operator: D. HUMBERT

Data File: \\consvr05\Files\chem\VOA\mso.i\O095092.b\OB558.D
Spectrum: Avg. Scans 28-30 (2.82), Background Scan 24
Location of Maximum: 95.00
Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1258	55.00	771	75.00	52904	96.00	6775
37.00	8012	56.00	1904	76.00	4606	141.00	430
38.00	6317	57.00	3685	77.00	917	143.00	483
39.00	2580	58.00	358	79.00	2852	174.00	70744
41.00	802	60.00	995	80.00	394	175.00	5180
43.00	111	61.00	5605	81.00	2834	176.00	68704
44.00	1002	62.00	4930	87.00	3194	177.00	4718
45.00	903	63.00	3611	88.00	2927	207.00	422
47.00	1381	68.00	11605	91.00	370	208.00	39
48.00	758	69.00	11881	92.00	2526		
49.00	5603	70.00	806	93.00	3838		
50.00	25896	73.00	4822	94.00	10543		
51.00	8393	74.00	17224	95.00	96144		

Test America Inc

Data file : \\consvr05\Files\chem\VOA\msv.i\V098451.b\VB871.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 07-DEC-2009 13:41 MS Autotune Date: 17-AUG-2009 09:58
Operator : D. HUMBERT Inst ID: msv.i
Smp Info : BFB
Misc Info : : ;;; ; 8260 ; 1; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098451.b\VBFB8260.m
Meth Date : 16-Jun-2009 08:21 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 4 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CON1006

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.784	2.523	(0.000)	95	306752			0.00- 100.00	100.00
2.784	2.523	(0.000)	50	51040			15.00- 40.00	16.64
2.784	2.523	(0.000)	75	151488			30.00- 60.00	49.38
2.784	2.523	(0.000)	96	20472			5.00- 9.00	6.67
2.784	2.523	(0.000)	173	566			0.00- 2.00	0.20
2.784	2.523	(0.000)	174	277568			50.00- 100.00	90.49
2.784	2.523	(0.000)	175	19864			5.00- 9.00	7.16
2.784	2.523	(0.000)	176	270336			95.00- 101.00	97.39
2.784	2.523	(0.000)	177	17632			5.00- 9.00	6.52

Data File: VB871.D

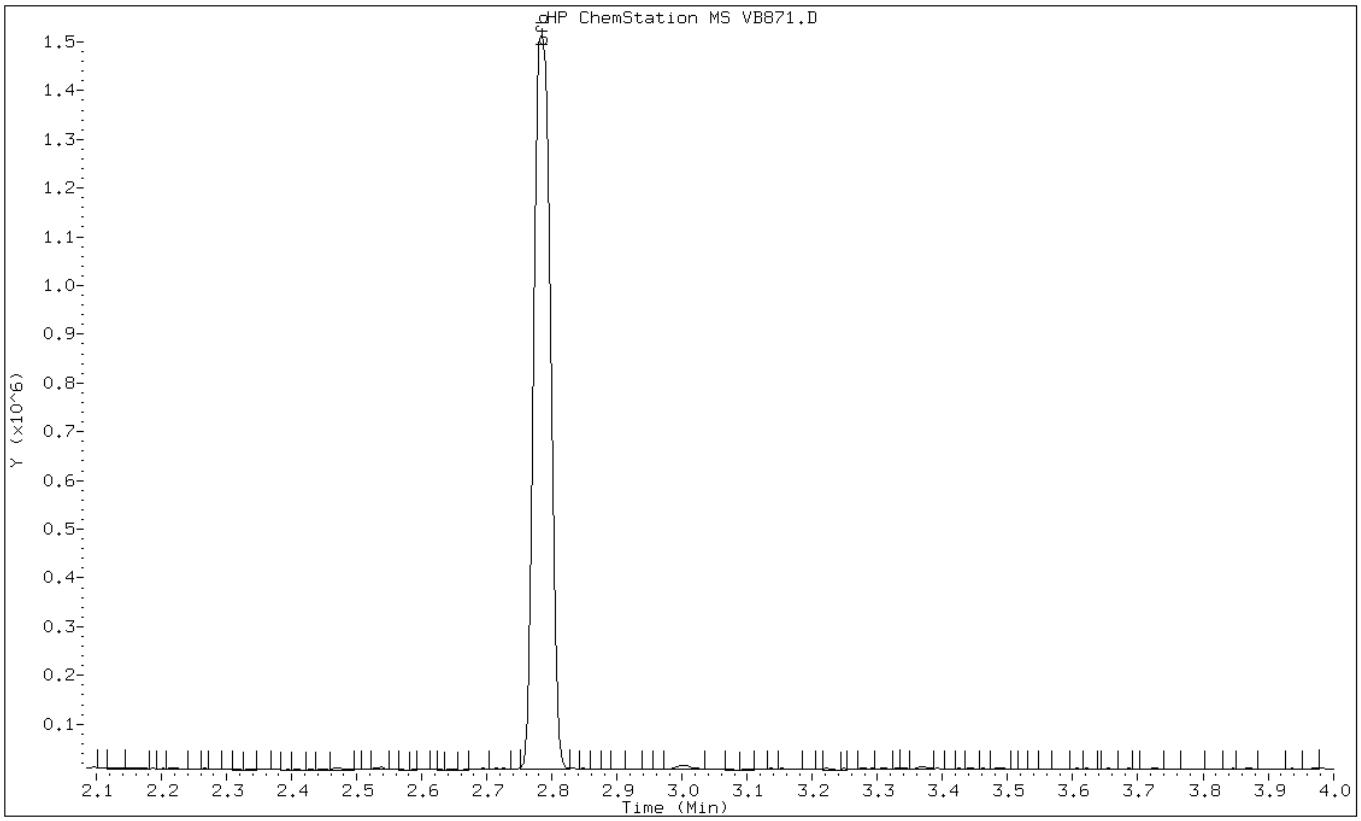
Date: 07-DEC-2009 13:41

Client ID: BFB

Instrument: msv.i

Sample Info: BFB

Operator: D. HUMBERT



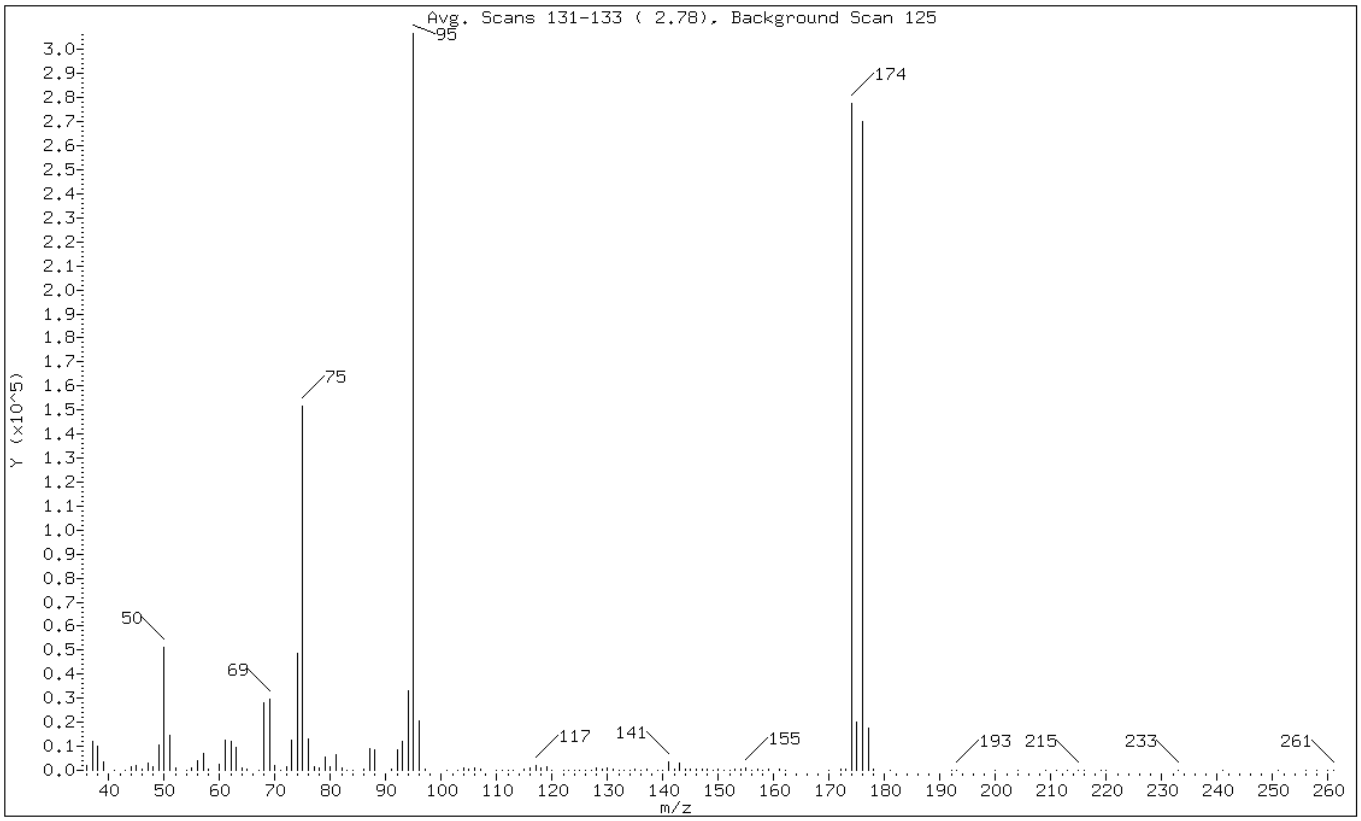
Data File: VB871.D

Date: 07-DEC-2009 13:41

Client ID: BFB Instrument: msv.i

Sample Info: BFB Operator: D. HUMBERT

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.64
75	30.00 - 60.00% of mass 95	49.38
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.18 (0.20)
174	50.00 - 100.00% of mass 95	90.49
175	5.00 - 9.00% of mass 174	6.48 (7.16)
176	95.00 - 101.00% of mass 174	88.13 (97.39)
177	5.00 - 9.00% of mass 176	5.75 (6.52)

Data File: VB871.D

Date: 07-DEC-2009 13:41

Client ID: BFB Instrument: msv.i

Sample Info: BFB Operator: D. HUMBERT

Data File: \\consvr05\Files\chem\VOA\msv.i\V098451.b\VB871.D
Spectrum: Avg. Scans 131-133 (2.78), Background Scan 125
Location of Maximum: 95.00
Number of points: 136

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1943	76.00	12954	122.00	188	158.00	107
37.00	11908	77.00	1636	123.00	57	159.00	499
38.00	10104	78.00	901	124.00	171	161.00	396
39.00	3339	79.00	5749	125.00	168	162.00	49
41.00	72	80.00	1552	126.00	23	170.00	92
43.00	7	81.00	6465	127.00	115	172.00	360
44.00	1256	82.00	1251	128.00	1109	173.00	566
45.00	2044	83.00	115	129.00	558	174.00	277568
46.00	311	84.00	40	130.00	1049	175.00	19864
47.00	2763	86.00	286	131.00	469	176.00	270336
48.00	1330	87.00	8861	132.00	45	177.00	17632
49.00	10306	88.00	8604	133.00	33	178.00	542
50.00	51040	91.00	625	134.00	157	181.00	89
51.00	14561	92.00	8361	135.00	633	192.00	43
52.00	778	93.00	12098	136.00	173	193.00	79
54.00	34	94.00	33024	137.00	557	200.00	38
55.00	757	95.00	306752	139.00	56	204.00	39
56.00	3793	96.00	20472	140.00	208	209.00	49
57.00	6839	97.00	676	141.00	3399	211.00	73
58.00	356	101.00	37	142.00	366	213.00	41
60.00	2511	103.00	195	143.00	3160	215.00	183
61.00	12657	104.00	1197	144.00	287	216.00	34
62.00	12058	105.00	441	145.00	271	219.00	11
63.00	9291	106.00	1229	146.00	465	220.00	35
64.00	787	107.00	272	147.00	289	233.00	52
65.00	293	110.00	186	148.00	690	241.00	47
67.00	207	111.00	231	149.00	202	251.00	34
68.00	28280	112.00	58	150.00	399	256.00	36
69.00	29416	113.00	219	151.00	86	258.00	57
70.00	2051	115.00	422	152.00	78	260.00	38
71.00	44	116.00	1013	153.00	384	261.00	75
72.00	1443	117.00	1883	154.00	291		
73.00	12677	118.00	934	155.00	980		
74.00	48520	119.00	1270	156.00	169		
75.00	151488	120.00	58	157.00	481		

TestAmerica Inc

Data file : \\consvr05\Files\chem\VOA\msv.i\V098896.b\VB885.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-DEC-2009 11:02 MS Autotune Date: 17-AUG-2009 09:58
Operator : B.KOSTRZEWSKA Inst ID: msv.i
Smp Info : BFB
Misc Info : : ;;; ; 8260 ; 1; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098896.b\VBFB8260.m
Meth Date : 16-Jun-2009 08:21 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 44 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.778	2.523	(0.000)	95	113929			0.00- 100.00	100.00
2.778	2.523	(0.000)	50	20717			15.00- 40.00	18.18
2.778	2.523	(0.000)	75	59909			30.00- 60.00	52.58
2.778	2.523	(0.000)	96	7910			5.00- 9.00	6.94
2.778	2.523	(0.000)	173	299			0.00- 2.00	0.33
2.778	2.523	(0.000)	174	90637			50.00- 100.00	79.56
2.778	2.523	(0.000)	175	6573			5.00- 9.00	7.25
2.778	2.523	(0.000)	176	86391			95.00- 101.00	95.32
2.778	2.523	(0.000)	177	5587			5.00- 9.00	6.47

Data File: VB885.D

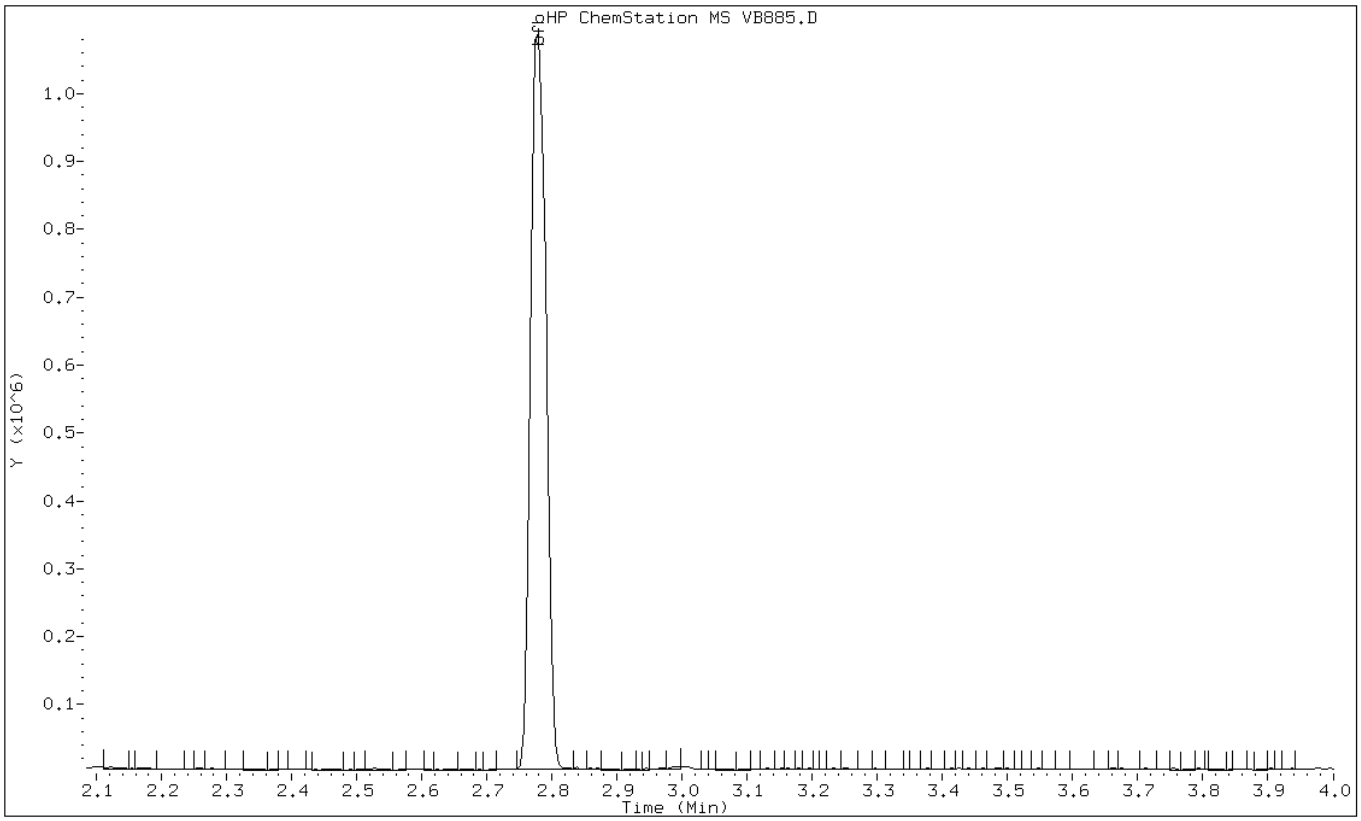
Date: 21-DEC-2009 11:02

Client ID: BFB

Instrument: msv.i

Sample Info: BFB

Operator: B.KOSTRZEWSKA



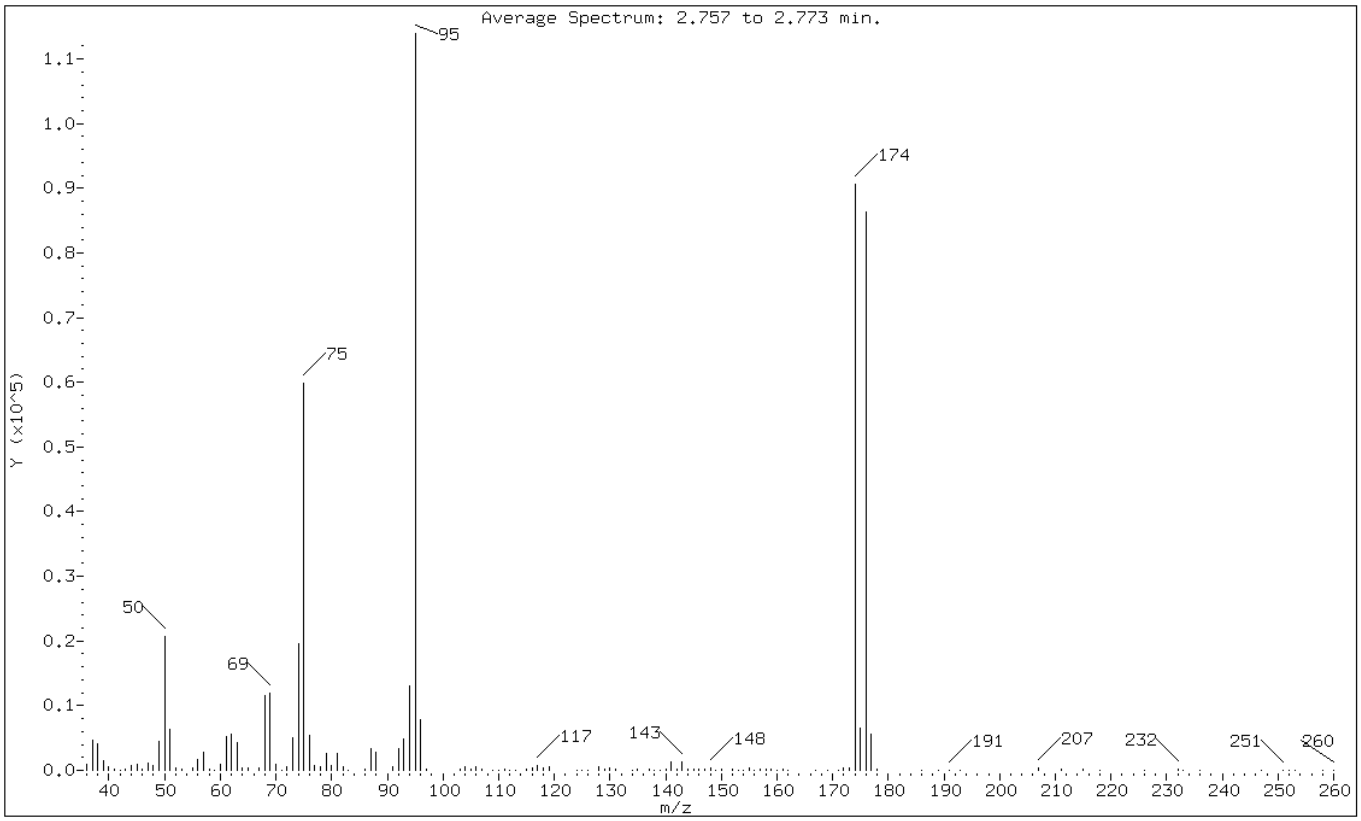
Data File: VB885.D

Date: 21-DEC-2009 11:02

Client ID: BFB Instrument: msv.i

Sample Info: BFB Operator: B.KOSTRZEWSKA

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.18
75	30.00 - 60.00% of mass 95	52.58
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.26 (0.33)
174	50.00 - 100.00% of mass 95	79.56
175	5.00 - 9.00% of mass 174	5.77 (7.25)
176	95.00 - 101.00% of mass 174	75.83 (95.32)
177	5.00 - 9.00% of mass 176	4.90 (6.47)

Data File: VB885.D

Date: 21-DEC-2009 11:02

Client ID: BFB

Instrument: msv.i

Sample Info: BFB

Operator: B.KOSTRZEWSKA

Data File: \\consvr05\Files\chem\VOA\msv.i\V098896.b\VB885.D
Spectrum: Average Spectrum: 2.757 to 2.773 min.
Location of Maximum: 95.00
Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	988	72.00	584	117.00	726	160.00	44
37.00	4626	73.00	5078	118.00	437	161.00	132
38.00	4117	74.00	19536	119.00	568	162.00	28
39.00	1557	75.00	59904	124.00	32	167.00	25
40.00	470	76.00	5448	125.00	53	169.00	48
41.00	199	77.00	783	126.00	37	171.00	78
42.00	91	78.00	474	128.00	479	172.00	342
43.00	100	79.00	2530	129.00	188	173.00	299
44.00	737	80.00	808	130.00	333	174.00	90632
45.00	885	81.00	2593	131.00	183	175.00	6573
46.00	120	82.00	570	134.00	48	176.00	86384
47.00	1131	83.00	84	135.00	194	177.00	5587
48.00	698	86.00	109	137.00	269	178.00	177
49.00	4476	87.00	3426	138.00	30	186.00	37
50.00	20712	88.00	2836	139.00	30	189.00	26
51.00	6419	91.00	469	140.00	98	191.00	56
52.00	353	92.00	3265	141.00	1291	193.00	25
53.00	95	93.00	4771	142.00	146	207.00	374
55.00	326	94.00	13094	143.00	1333	211.00	117
56.00	1757	95.00	113928	144.00	115	215.00	166
57.00	2811	96.00	7910	145.00	262	218.00	26
58.00	126	97.00	252	146.00	144	226.00	35
59.00	41	103.00	111	147.00	104	232.00	101
60.00	1023	104.00	478	148.00	313	233.00	74
61.00	5172	105.00	270	149.00	29	236.00	30
62.00	5505	106.00	488	150.00	173	247.00	41
63.00	4217	107.00	186	152.00	120	251.00	63
64.00	390	109.00	28	153.00	87	252.00	26
65.00	294	110.00	40	154.00	52	253.00	26
67.00	370	111.00	145	155.00	296	258.00	47
68.00	11521	112.00	37	156.00	32	260.00	70
69.00	11986	113.00	29	157.00	229		
70.00	902	115.00	96	158.00	106		
71.00	89	116.00	323	159.00	198		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34565/3

Matrix: Water | Lab File ID: V8902.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 13:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	1.0
74-87-3	Chloromethane	5.0	U	5.0	1.1
75-01-4	Vinyl chloride	5.0	U	5.0	0.99
74-83-9	Bromomethane	5.0	U	5.0	2.1
75-00-3	Chloroethane	5.0	U	5.0	1.1
75-69-4	Trichlorofluoromethane	5.0	U	5.0	1.1
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	5.0	U	5.0	0.97
67-64-1	Acetone	10	U	10	1.0
75-15-0	Carbon disulfide	5.0	U	5.0	0.90
79-20-9	Methyl acetate	5.0	U	5.0	0.48
75-09-2	Methylene Chloride	5.0	U	5.0	0.78
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.76
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
75-34-3	1,1-Dichloroethane	5.0	U	5.0	1.0
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.99
78-93-3	Methyl Ethyl Ketone	10	U	10	1.1
67-66-3	Chloroform	5.0	U	5.0	0.67
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.69
110-82-7	Cyclohexane	5.0	U	5.0	0.70
56-23-5	Carbon tetrachloride	5.0	U	5.0	1.1
71-43-2	Benzene	5.0	U	5.0	0.74
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.72
79-01-6	Trichloroethene	5.0	U	5.0	0.62
108-87-2	Methylcyclohexane	5.0	U	5.0	0.98
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.71
75-27-4	Bromodichloromethane	5.0	U	5.0	0.48
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.28
108-10-1	methyl isobutyl ketone	10	U	10	0.38
108-88-3	Toluene	5.0	U	5.0	0.72
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.57
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
127-18-4	Tetrachloroethene	5.0	U	5.0	0.81
591-78-6	2-Hexanone	10	U	10	1.1
124-48-1	Dibromochloromethane	5.0	U	5.0	0.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34565/3

Matrix: Water | Lab File ID: V8902.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 13:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.52
108-90-7	Chlorobenzene	5.0	U	5.0	0.72
100-41-4	Ethylbenzene	5.0	U	5.0	0.87
1330-20-7	Xylenes, Total	5.0	U	5.0	2.3
100-42-5	Styrene	5.0	U	5.0	0.64
75-25-2	Bromoform	5.0	U	5.0	0.46
98-82-8	Isopropylbenzene	5.0	U	5.0	0.85
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.14
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.59
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.22
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.2
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.72

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102	65-136	
460-00-4	4-Bromofluorobenzene	90	51-142	
1868-53-7	Dibromofluoromethane	97	68-132	
2037-26-5	Toluene-d8 (Surr)	84	63-127	

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8902.D
Lab Smp Id: MB Client Smp ID: MB
Inj Date : 21-DEC-2009 13:09 MS Autotune Date: 17-AUG-2009 09:58
Operator : B.KOSTRZEWSKA Inst ID: msv.i
Smp Info : MB
Misc Info : : ;;; ; 8260 ; 1; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8260LOW.m
Meth Date : 22-Dec-2009 10:29 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 21:55 Cal File: V8468.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.488	5.483	(1.000)	1168990	25.0000	
	20 Methylene Chloride	84	2.697	2.692	(0.491)	4555	0.46569	0.5
$	41 Dibromofluoromethane	111	4.581	4.576	(0.835)	267077	24.2404	24
$	55 1,2-Dichloroethane-d4	65	5.152	5.152	(0.939)	342941	25.4909	25
*	75 Chlorobenzene-d5	117	9.251	9.251	(1.000)	791249	25.0000	
$	77 Toluene-d8	98	7.340	7.340	(0.793)	902726	20.8794	21
	91 Xylene (total)mp	106	9.512	9.512	(1.028)	3170	0.18438	0.2
*	95 1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	280419	25.0000	
	97 Bromobenzene	156	10.612	10.612	(0.924)	1000	0.10087	0.1
	124 1,2,3-Trichlorobenzene	180	13.275	13.280	(1.156)	1343	0.12498	0.1
$	125 Bromofluorobenzene	95	10.526	10.526	(0.916)	252641	22.3917	22
M	127 Xylene (total)	100				3170	0.18438	0.2

Data File: V8902.D

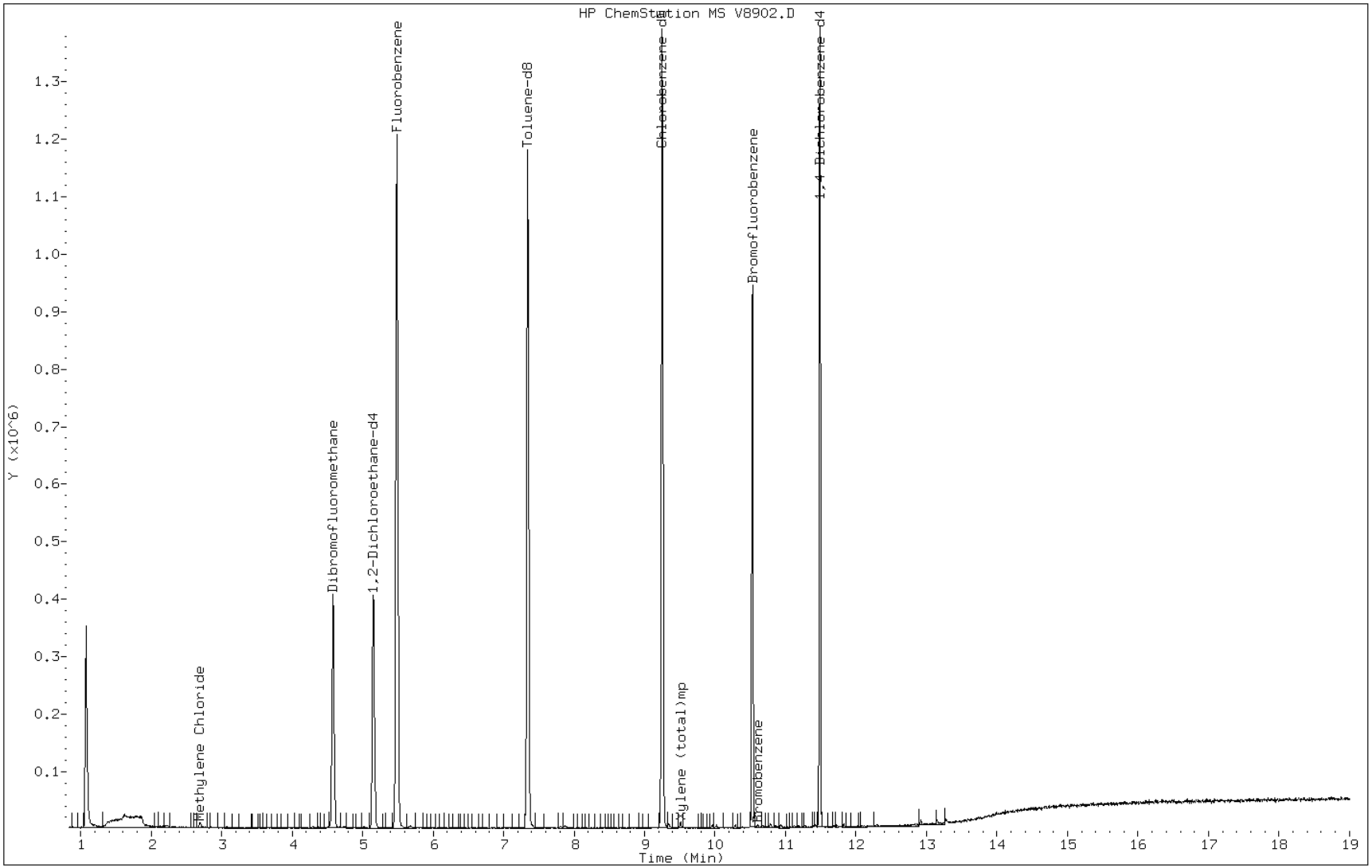
Date: 21-DEC-2009 13:09

Client ID: MB

Instrument: msv.i

Sample Info: MB

Operator: B.KOSTRZEWSKA



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34649/3

Matrix: Solid | Lab File ID: O5067.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/23/2009 16:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.35
74-87-3	Chloromethane	5.0	U	5.0	0.78
75-01-4	Vinyl chloride	5.0	U	5.0	0.23
74-83-9	Bromomethane	5.0	U	5.0	2.1
75-00-3	Chloroethane	5.0	U	5.0	0.98
75-69-4	Trichlorofluoromethane	5.0	U	5.0	0.15
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.58
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	0.79
67-64-1	Acetone	20	U	20	2.2
75-15-0	Carbon disulfide	5.0	U	5.0	0.41
79-20-9	Methyl acetate	5.0	U	5.0	0.44
75-09-2	Methylene Chloride	20	U	20	1.1
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.39
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.21
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.37
78-93-3	Methyl Ethyl Ketone	10	U	10	1.6
67-66-3	Chloroform	5.0	U	5.0	0.34
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.53
110-82-7	Cyclohexane	1.46	J	5.0	0.69
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.95
71-43-2	Benzene	5.0	U	5.0	0.57
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.58
79-01-6	Trichloroethene	5.0	U	5.0	0.81
108-87-2	Methylcyclohexane	5.0	U	5.0	0.33
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.67
75-27-4	Bromodichloromethane	5.0	U	5.0	0.30
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.56
108-10-1	methyl isobutyl ketone	5.0	U	5.0	0.55
108-88-3	Toluene	0.836	J	5.0	0.074
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.27
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.37
127-18-4	Tetrachloroethene	5.0	U	5.0	0.81
591-78-6	2-Hexanone	10	U	10	1.2
124-48-1	Dibromochloromethane	5.0	U	5.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34649/3

Matrix: Solid | Lab File ID: O5067.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/23/2009 16:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.76
108-90-7	Chlorobenzene	5.0	U	5.0	0.59
100-41-4	Ethylbenzene	5.0	U	5.0	0.70
1330-20-7	Xylenes, Total	5.0	U	5.0	0.49
100-42-5	Styrene	5.0	U	5.0	0.15
75-25-2	Bromoform	5.0	U	5.0	0.61
98-82-8	Isopropylbenzene	5.0	U	5.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.52
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.21
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.67
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.24
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10	4.5
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.75

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98	59-132	
460-00-4	4-Bromofluorobenzene	108	34-124	
1868-53-7	Dibromofluoromethane	95	59-123	
2037-26-5	Toluene-d8 (Surr)	95	50-118	

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O5067.D
Lab Smp Id: MB Client Smp ID: MB
Inj Date : 23-DEC-2009 16:54 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : MB
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 68
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	4.014	4.014	(1.000)	257905	25.0000	
20 Methylene Chloride	84	1.845	1.845	(0.460)	3658	0.71114	0.7
37 Cyclohexane	84	2.870	2.880	(0.715)	12967	1.45771	1
$ 41 Dibromofluoromethane	111	3.107	3.107	(0.774)	120313	23.7533	24
$ 55 1,2-Dichloroethane-d4	65	3.659	3.669	(0.912)	144087	24.5095	24
* 75 Chlorobenzene-d5	117	7.356	7.356	(1.000)	212924	25.0000	
76 Toluene	91	5.907	5.907	(0.803)	18358	0.83553	0.8
$ 77 Toluene-d8	98	5.857	5.858	(0.796)	387675	23.7001	24
* 95 1,4-Dichlorobenzene-d4	152	9.446	9.446	(1.000)	94553	25.0000	
$ 125 Bromofluorobenzene	95	8.460	8.460	(0.896)	164944	27.0066	27

Data File: O5067.D

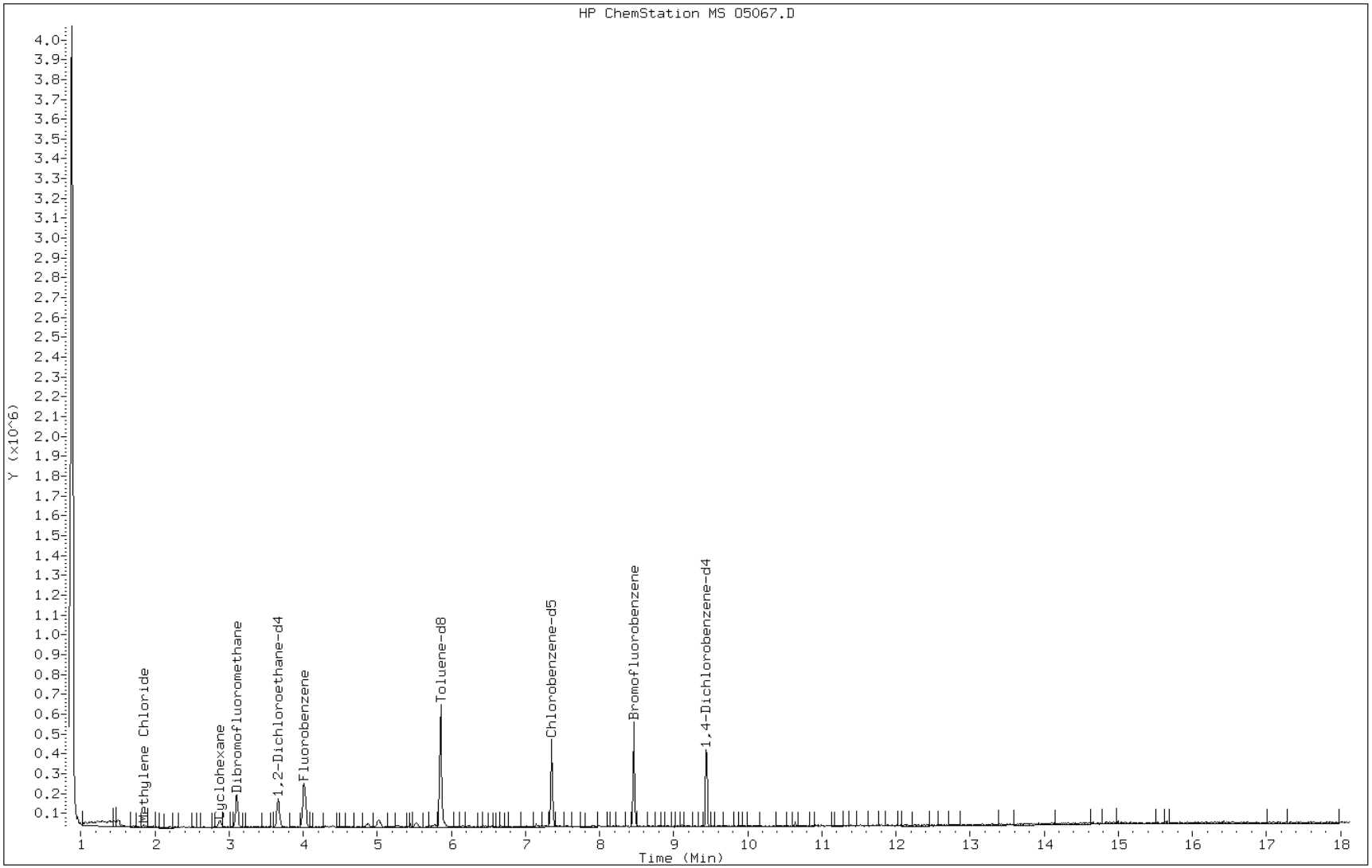
Date: 23-DEC-2009 16:54

Client ID: MB

Instrument: mso.i

Sample Info: MB

Operator: D. HUMBERT



Data File: O5067.D

Date: 23-DEC-2009 16:54

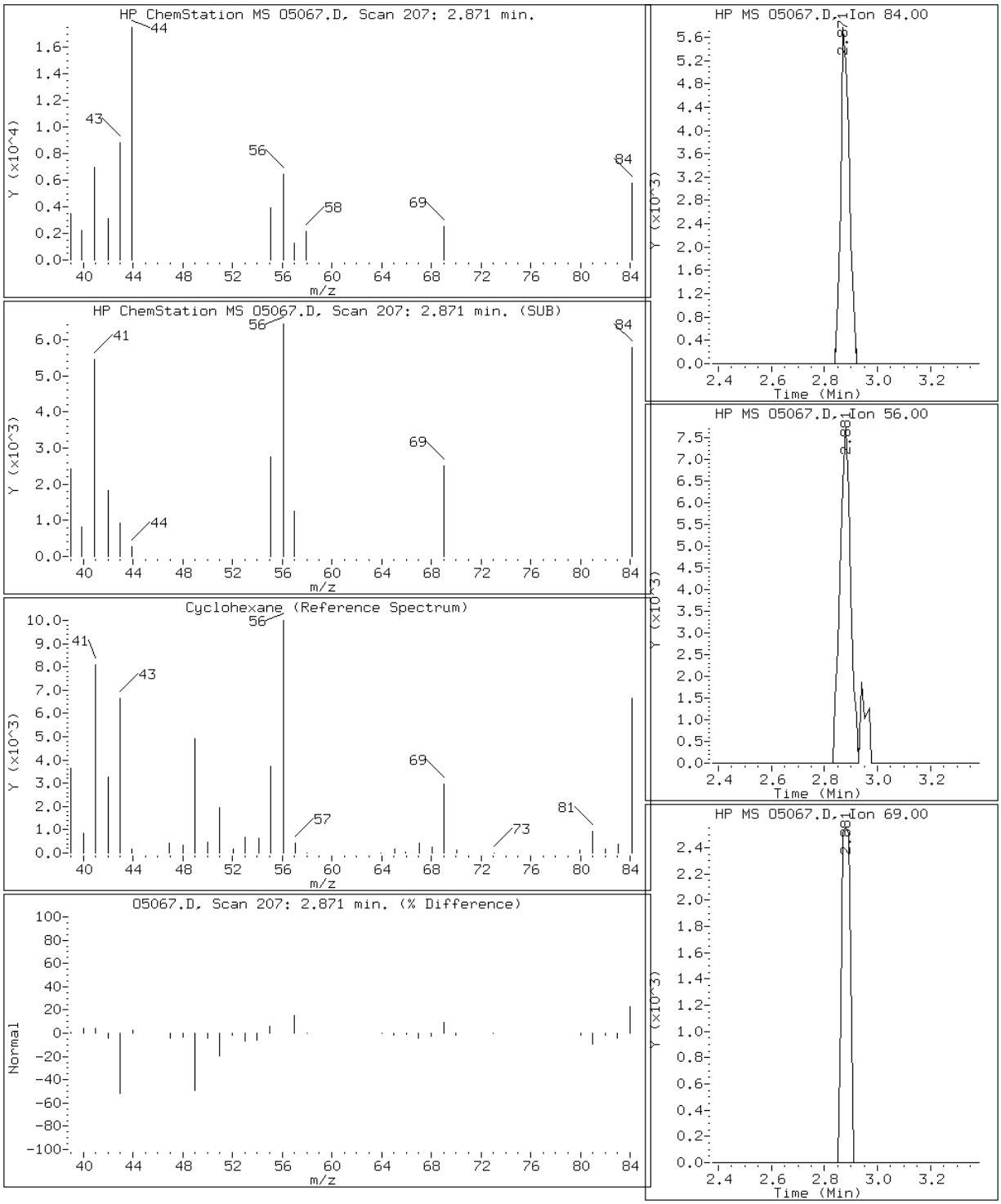
Client ID: MB

Instrument: mso.i

Sample Info: MB

Operator: D. HUMBERT

37 Cyclohexane



Data File: O5067.D

Date: 23-DEC-2009 16:54

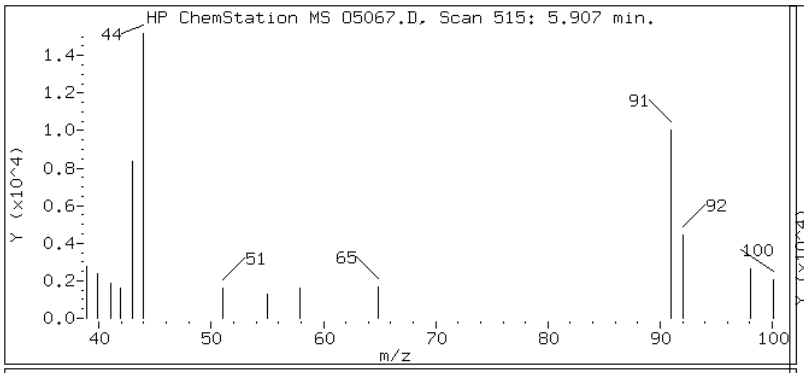
Client ID: MB

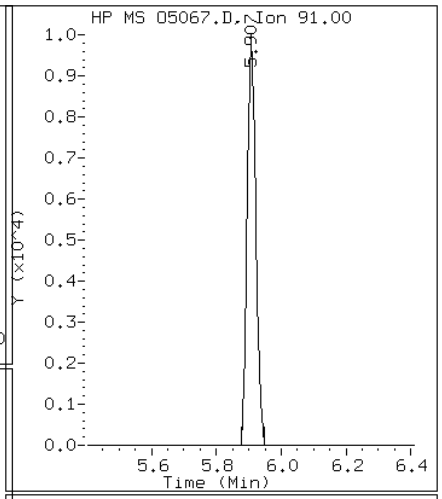
Instrument: mso.i

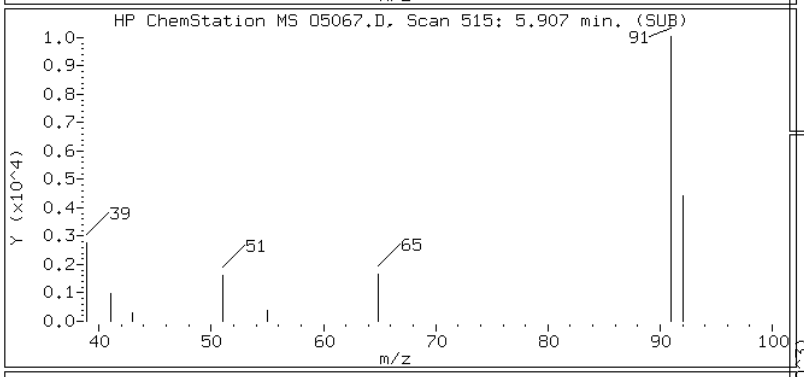
Sample Info: MB

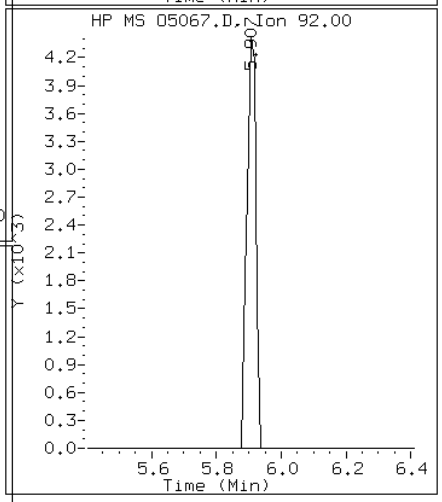
Operator: D. HUMBERT

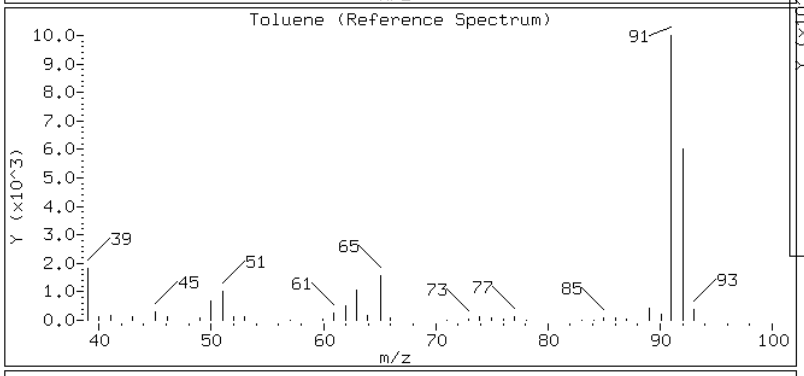
76 Toluene

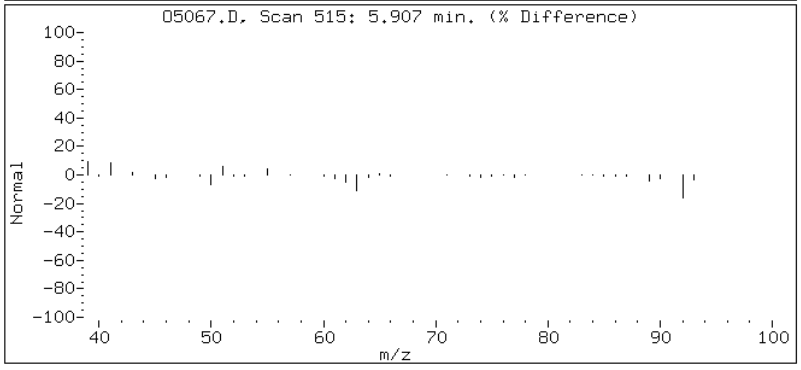












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34652/3

Matrix: Solid | Lab File ID: O5095.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 09:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34652 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.35
74-87-3	Chloromethane	5.0	U	5.0	0.78
75-01-4	Vinyl chloride	5.0	U	5.0	0.23
74-83-9	Bromomethane	5.0	U	5.0	2.1
75-00-3	Chloroethane	5.0	U	5.0	0.98
75-69-4	Trichlorofluoromethane	5.0	U	5.0	0.15
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.58
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	0.79
67-64-1	Acetone	20	U	20	2.2
75-15-0	Carbon disulfide	5.0	U	5.0	0.41
79-20-9	Methyl acetate	5.0	U	5.0	0.44
75-09-2	Methylene Chloride	1.72	J	20	1.1
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.39
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.21
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.37
78-93-3	Methyl Ethyl Ketone	10	U	10	1.6
67-66-3	Chloroform	5.0	U	5.0	0.34
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.53
110-82-7	Cyclohexane	5.0	U	5.0	0.69
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.95
71-43-2	Benzene	5.0	U	5.0	0.57
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.58
79-01-6	Trichloroethene	5.0	U	5.0	0.81
108-87-2	Methylcyclohexane	5.0	U	5.0	0.33
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.67
75-27-4	Bromodichloromethane	5.0	U	5.0	0.30
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.56
108-10-1	methyl isobutyl ketone	5.0	U	5.0	0.55
108-88-3	Toluene	0.444	J	5.0	0.074
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.27
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.37
127-18-4	Tetrachloroethene	5.0	U	5.0	0.81
591-78-6	2-Hexanone	10	U	10	1.2
124-48-1	Dibromochloromethane	5.0	U	5.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34652/3

Matrix: Solid | Lab File ID: O5095.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 09:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34652 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.76
108-90-7	Chlorobenzene	5.0	U	5.0	0.59
100-41-4	Ethylbenzene	5.0	U	5.0	0.70
1330-20-7	Xylenes, Total	5.0	U	5.0	0.49
100-42-5	Styrene	5.0	U	5.0	0.15
75-25-2	Bromoform	5.0	U	5.0	0.61
98-82-8	Isopropylbenzene	5.0	U	5.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.52
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.21
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.67
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.24
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10	4.5
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.75

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95	59-132	
460-00-4	4-Bromofluorobenzene	103	34-124	
1868-53-7	Dibromofluoromethane	93	59-123	
2037-26-5	Toluene-d8 (Surr)	95	50-118	

TestAmerica

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095092.b\O5095.D
Lab Smp Id: MB Client Smp ID: MB
Inj Date : 24-DEC-2009 09:10 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : MB
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095092.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:47 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 91
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.004	4.007	(1.000)	256074	25.0000	
	20 Methylene Chloride	84	1.845	1.838	(0.461)	8784	1.71988	2
$	41 Dibromofluoromethane	111	3.097	3.090	(0.773)	116792	23.2230	23
$	55 1,2-Dichloroethane-d4	65	3.649	3.652	(0.911)	138749	23.7702	24
*	75 Chlorobenzene-d5	117	7.346	7.349	(1.000)	205336	25.0000	
	76 Toluene	91	5.906	5.900	(0.804)	9401	0.44368	0.4
$	77 Toluene-d8	98	5.847	5.850	(0.796)	374798	23.7596	24
*	95 1,4-Dichlorobenzene-d4	152	9.436	9.439	(1.000)	90508	25.0000	
$	125 Bromofluorobenzene	95	8.460	8.463	(0.897)	150797	25.7938	26

Data File: O5095.D

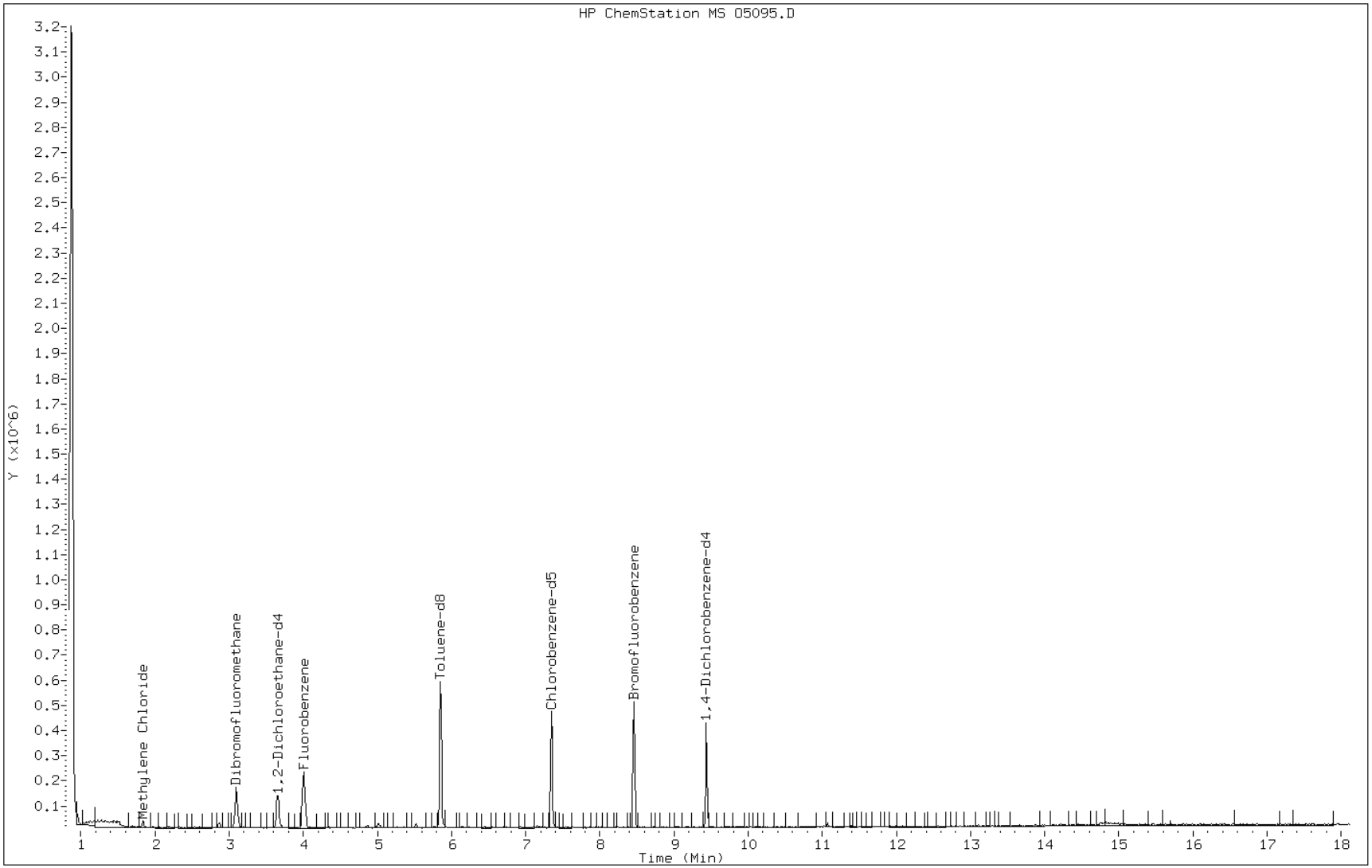
Date: 24-DEC-2009 09:10

Client ID: MB

Instrument: mso.i

Sample Info: MB

Operator: D. HUMBERT



Data File: O5095.D

Date: 24-DEC-2009 09:10

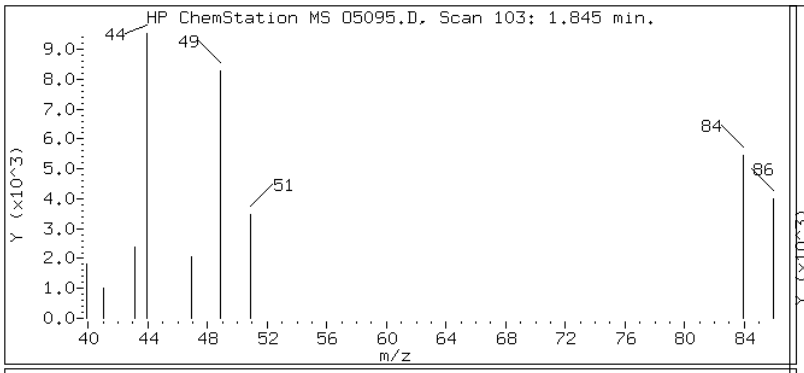
Client ID: MB

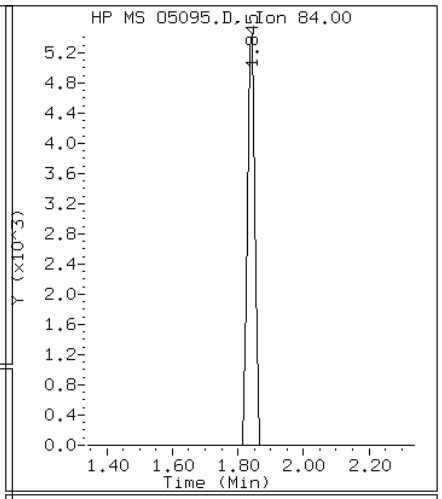
Instrument: mso.i

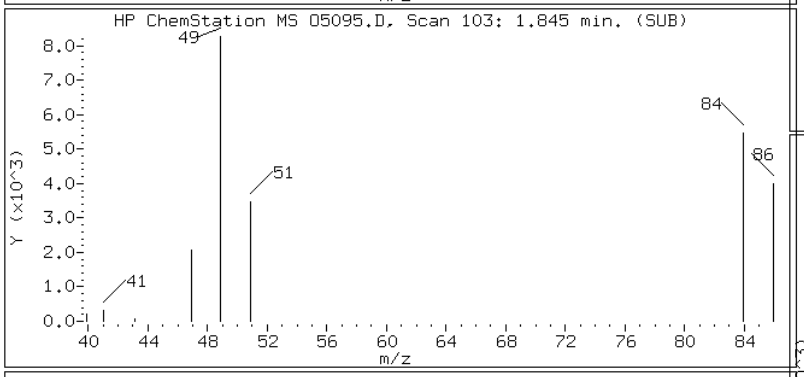
Sample Info: MB

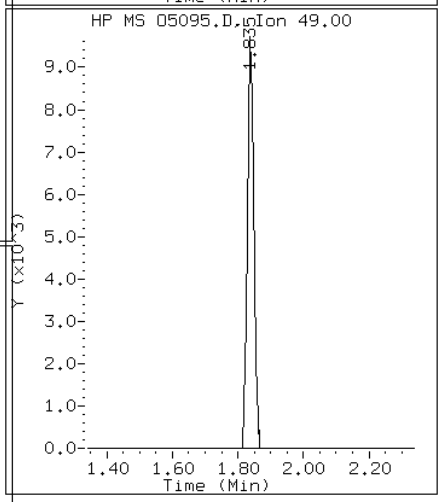
Operator: D. HUMBERT

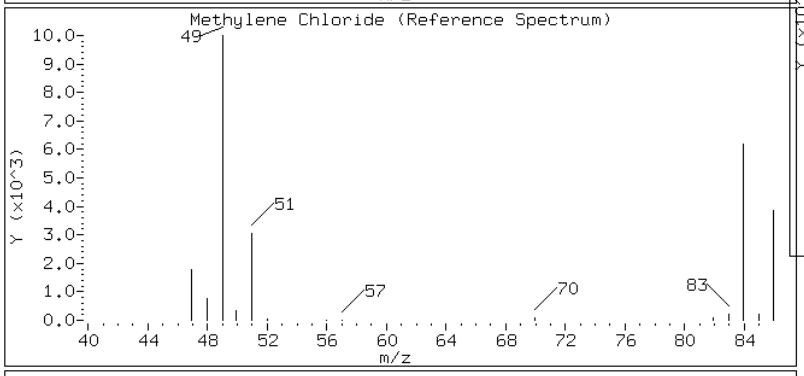
20 Methylene Chloride

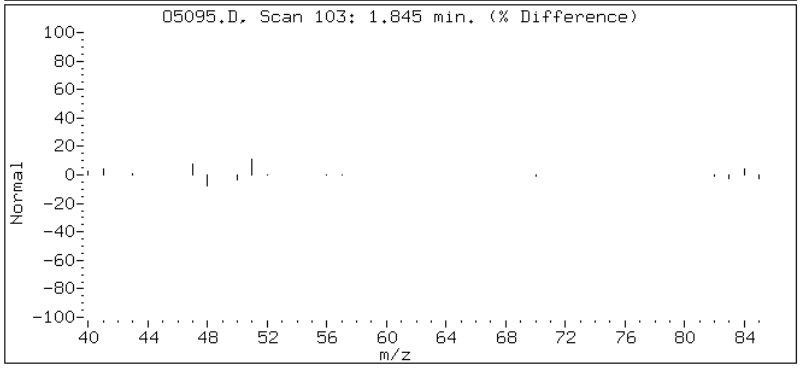












Data File: O5095.D

Date: 24-DEC-2009 09:10

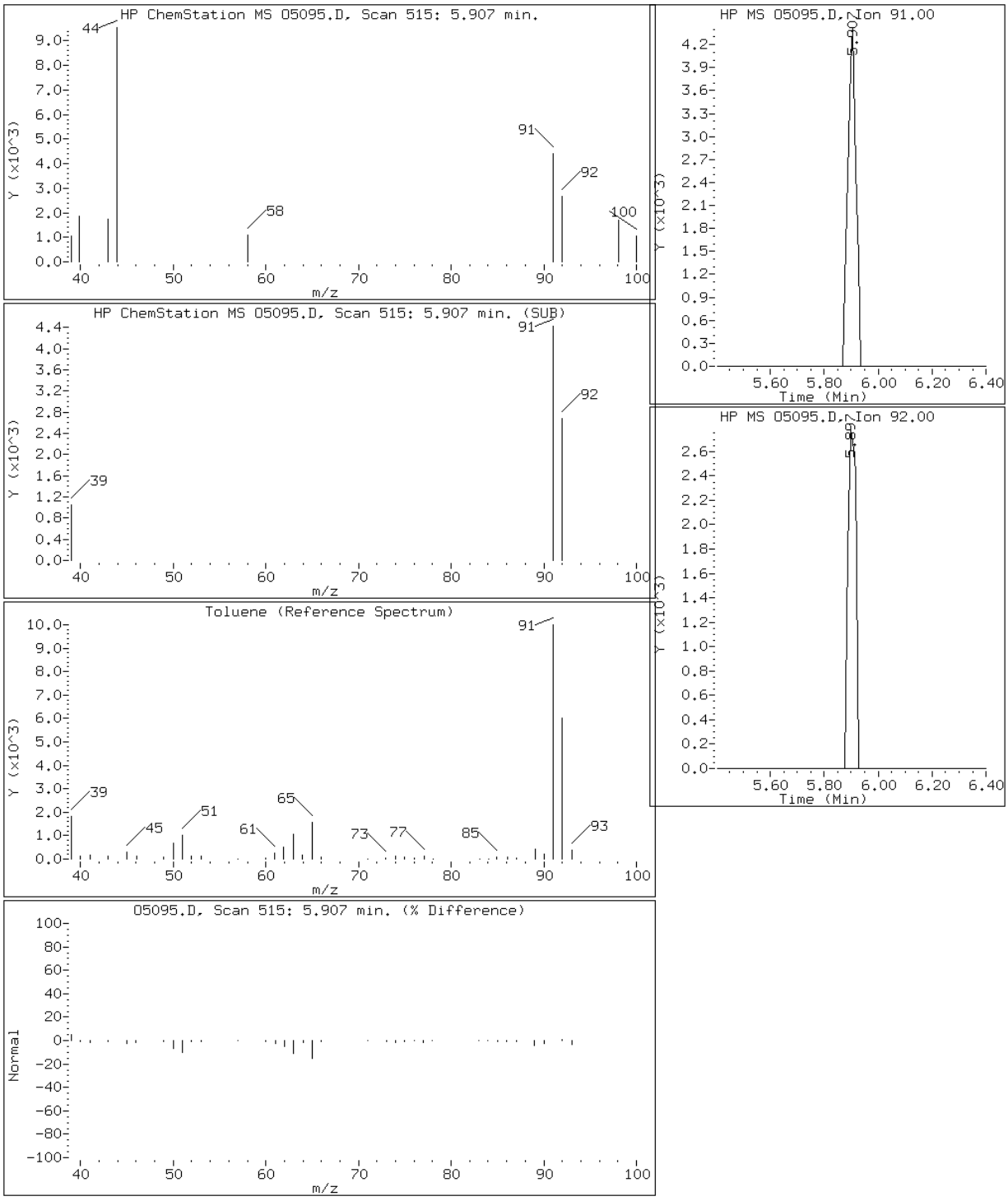
Client ID: MB

Instrument: mso.i

Sample Info: MB

Operator: D. HUMBERT

76 Toluene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 220-34565/16

Matrix: Water Lab File ID: V8899.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/21/2009 11:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 34565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	11.6		5.0	1.0
74-87-3	Chloromethane	9.37		5.0	1.1
75-01-4	Vinyl chloride	10.4		5.0	0.99
74-83-9	Bromomethane	10.1		5.0	2.1
75-00-3	Chloroethane	10.9		5.0	1.1
75-69-4	Trichlorofluoromethane	10.9		5.0	1.1
75-35-4	1,1-Dichloroethene	11.7		5.0	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	10.4		5.0	0.97
67-64-1	Acetone	13.6		10	1.0
75-15-0	Carbon disulfide	10.6		5.0	0.90
79-20-9	Methyl acetate	6.62		5.0	0.48
75-09-2	Methylene Chloride	10.5		5.0	0.78
156-60-5	trans-1,2-Dichloroethene	9.94		5.0	0.76
1634-04-4	Methyl tert-butyl ether	10.4		5.0	0.17
75-34-3	1,1-Dichloroethane	10.2		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	9.76		5.0	0.99
78-93-3	Methyl Ethyl Ketone	12.9		10	1.1
67-66-3	Chloroform	10.6		5.0	0.67
71-55-6	1,1,1-Trichloroethane	10.4		5.0	0.69
110-82-7	Cyclohexane	9.57		5.0	0.70
56-23-5	Carbon tetrachloride	10.5		5.0	1.1
71-43-2	Benzene	9.81		5.0	0.74
107-06-2	1,2-Dichloroethane	10.6		5.0	0.72
79-01-6	Trichloroethene	9.78		5.0	0.62
108-87-2	Methylcyclohexane	9.46		5.0	0.98
78-87-5	1,2-Dichloropropane	9.89		5.0	0.71
75-27-4	Bromodichloromethane	10.0		5.0	0.48
10061-01-5	cis-1,3-Dichloropropene	9.62		5.0	0.28
108-10-1	methyl isobutyl ketone	11.2		10	0.38
108-88-3	Toluene	8.79		5.0	0.72
10061-02-6	trans-1,3-Dichloropropene	10.6		5.0	0.57
79-00-5	1,1,2-Trichloroethane	10.4		5.0	0.65
127-18-4	Tetrachloroethene	8.53		5.0	0.81
591-78-6	2-Hexanone	10.7		10	1.1
124-48-1	Dibromochloromethane	9.54		5.0	0.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34565/16

Matrix: Water | Lab File ID: V8899.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/21/2009 11:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34565 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	9.28		5.0	0.52
108-90-7	Chlorobenzene	9.05		5.0	0.72
100-41-4	Ethylbenzene	9.08		5.0	0.87
1330-20-7	Xylenes, Total	26.7		5.0	2.3
100-42-5	Styrene	9.01		5.0	0.64
75-25-2	Bromoform	10.7		5.0	0.46
98-82-8	Isopropylbenzene	9.58		5.0	0.85
79-34-5	1,1,2,2-Tetrachloroethane	10.8		5.0	0.81
541-73-1	1,3-Dichlorobenzene	8.49		5.0	0.14
106-46-7	1,4-Dichlorobenzene	8.49		5.0	0.59
95-50-1	1,2-Dichlorobenzene	7.99		5.0	0.22
96-12-8	1,2-Dibromo-3-Chloropropane	8.16		5.0	1.2
120-82-1	1,2,4-Trichlorobenzene	7.41		5.0	0.72

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101	65-136	
460-00-4	4-Bromofluorobenzene	90	51-142	
1868-53-7	Dibromofluoromethane	97	68-132	
2037-26-5	Toluene-d8 (Surr)	84	63-127	

TestAmerica Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8899.D
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 21-DEC-2009 11:48 MS Autotune Date: 17-AUG-2009 09:58
Operator : B.KOSTRZEWSKA Inst ID: msv.i
Smp Info : LCS
Misc Info : : ;;; ; 8260 ; 1; LLW
Comment :
Method : \\consvr05\Files\chem\VOA\msv.i\V098896.b\V8260LOW.m
Meth Date : 22-Dec-2009 10:29 msv.i Quant Type: ISTD
Cal Date : 07-DEC-2009 21:55 Cal File: V8468.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1004

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.488	5.483	(1.000)	1214348	25.0000	
2	Dichlorodifluoromethane	85	1.187	1.187	(0.216)	76139	11.6018	12
3	Chloromethane	50	1.315	1.315	(0.240)	56773	9.36926	9
4	Vinyl Chloride	62	1.373	1.374	(0.250)	95559	10.4200	10
5	Bromomethane	94	1.603	1.598	(0.292)	48338	10.1004	10
6	Chloroethane	64	1.688	1.694	(0.308)	62777	10.9216	11
7	Trichlorofluoromethane	101	1.795	1.795	(0.327)	253943	10.8766	11
9	Ethyl Ether	45	2.030	2.030	(0.370)	65607	11.1405	11
12	Freon 123	67	2.238	2.238	(0.408)	29754	10.7468	11
13	Trichlorotrifluoroethane	101	2.233	2.228	(0.407)	118551	10.3685	10
14	1,1-Dichloroethene	96	2.190	2.190	(0.399)	100411	11.7447	12
15	Carbon Disulfide	76	2.211	2.212	(0.403)	327614	10.5862	10
16	Iodomethane	142	2.302	2.302	(0.420)	122087	9.89279	10
19	3-Chloro-1-Propene	41	2.596	2.596	(0.473)	170795	10.5919	10
20	Methylene Chloride	84	2.697	2.692	(0.491)	106802	10.5113	10
21	Acetone	43	2.734	2.729	(0.498)	29313	13.5985	14(R)
22	trans-1,2-Dichloroethene	96	2.857	2.857	(0.521)	109662	9.93661	10
23	Methyl Acetate	43	2.868	2.868	(0.523)	180866	6.62172	7(R)
24	Methyl tert-Butyl Ether	73	2.975	2.975	(0.542)	342548	10.3982	10
25	tert-Butyl alcohol	59	3.076	3.071	(0.560)	43624	79.8568	80(R)
30	Acrylonitrile	53	3.530	3.530	(0.643)	68294	26.7766	27(R)
31	1,1-Dichloroethane	63	3.487	3.492	(0.635)	214422	10.2116	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
33	cis-1,2-Dichloroethene	96	4.074	4.074	(0.742)	119162	9.76209	10
34	2,2-Dichloropropane	77	4.186	4.186	(0.763)	210449	10.2288	10
35	Bromochloromethane	128	4.287	4.282	(0.781)	59275	9.96667	10
37	Cyclohexane	84	4.293	4.293	(0.782)	156775	9.56846	10
38	Chloroform	83	4.383	4.384	(0.799)	232084	10.6271	11
39	Ethyl Acetate	43	4.544	4.538	(0.828)	43348	50.4883	50(R)
40	Methyl Acrylate	55	4.538	4.538	(0.827)	91455	11.9851	12
$ 41	Dibromofluoromethane	111	4.581	4.576	(0.835)	277830	24.2745	24
42	Tetrahydrofuran	42	4.544	4.538	(0.828)	60471	30.5791	30(R)
43	Carbon Tetrachloride	117	4.522	4.528	(0.824)	206529	10.4580	10
44	1,1,1-Trichloroethane	97	4.597	4.597	(0.838)	226483	10.4202	10
45	2-Butanone	43	4.714	4.715	(0.859)	39433	12.9387	13
46	1,1-Dichloropropene	75	4.741	4.741	(0.864)	170480	10.1013	10
49	1-Chlorobutane	56	4.800	4.800	(0.875)	234820	10.0622	10
51	Propionitrile	54	5.019	5.019	(0.914)	125004	180.158	180(R)
52	Benzene	78	5.008	5.008	(0.912)	445471	9.80749	10
53	2-Methyl-2-Propenenitrile	41	5.051	5.035	(0.920)	62015	4.59959	4(R)
$ 55	1,2-Dichloroethane-d4	65	5.152	5.152	(0.939)	352347	25.2118	25
56	1,2-Dichloroethane	62	5.227	5.227	(0.952)	179246	10.6174	11
59	Methyl Cyclohexane	83	5.670	5.670	(1.033)	191335	9.45573	9
60	Trichloroethene	130	5.686	5.680	(1.036)	125860	9.77842	10
63	Dibromomethane	93	6.145	6.145	(1.120)	70358	10.4029	10
64	1,2-Dichloropropane	63	6.267	6.268	(1.142)	114676	9.89409	10
65	Bromodichloromethane	83	6.363	6.364	(1.159)	158856	10.0295	10
66	Methyl Methacrylate	69	6.598	6.593	(1.202)	129079	20.4022	20
70	cis-1,3-Dichloropropene	75	7.116	7.116	(1.297)	175384	9.61521	10
71	Chloroacetonitrile	48	7.575	7.575	(1.380)	45514	286.707	290(R)
72	2-Nitropropane	41	7.660	7.660	(1.396)	54722	26.1608	26(R)
73	trans-1,3-Dichloropropene	75	7.922	7.922	(1.443)	183765	10.6002	11
74	1,1,2-Trichloroethane	97	8.109	8.109	(1.477)	91373	10.3609	10
* 75	Chlorobenzene-d5	117	9.251	9.251	(1.000)	817566	25.0000	
76	Toluene	91	7.404	7.404	(0.800)	452963	8.78524	9
$ 77	Toluene-d8	98	7.340	7.340	(0.793)	941818	21.0824	21
78	1,1-Dichloro-2-propanone	43	7.687	7.687	(0.831)	211129	59.6455	60
79	4-Methyl-2-Pentanone	43	7.890	7.890	(0.853)	75375	11.1720	11
80	Tetrachloroethene	164	7.868	7.869	(0.851)	100303	8.53452	8
81	Ethyl Methacrylate	69	8.183	8.183	(0.885)	107813	9.59329	10
82	Dibromochloromethane	129	8.317	8.317	(0.899)	116847	9.53642	10
83	1,3-Dichloropropane	76	8.434	8.434	(0.912)	159723	9.35583	9
84	1,2-Dibromoethane	107	8.578	8.578	(0.927)	94066	9.28351	9
86	2-Hexanone	43	8.952	8.952	(0.968)	45647	10.6549	11
87	1-Chlorohexane	91	9.299	9.299	(1.005)	83885	6.66255	7(RH)
88	Chlorobenzene	112	9.272	9.267	(1.002)	265764	9.05195	9
89	1,1,1,2-Tetrachloroethane	131	9.363	9.358	(1.012)	115417	9.64169	10
90	Ethylbenzene	106	9.336	9.336	(1.009)	144757	9.08203	9
91	Xylene (total)mp	106	9.512	9.512	(1.028)	318547	17.9320	18
92	Xylene (total)o	106	9.961	9.961	(1.077)	142033	8.83094	9
93	Styrene	104	10.019	10.019	(1.083)	222995	9.01124	9
94	Bromoform	173	10.014	10.014	(1.082)	73746	10.6895	11
* 95	1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	302047	25.0000	
96	Isopropylbenzene	105	10.286	10.286	(0.895)	382615	9.58123	10
97	Bromobenzene	156	10.612	10.612	(0.924)	101301	9.48676	9
98	1,1,2,2-Tetrachloroethane	83	10.740	10.740	(0.935)	82274	10.7684	11
100	1,2,3-Trichloropropane	110	10.836	10.836	(0.943)	28829	11.2100	11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
101	trans-1,4-Dichloro-2-Butene	53	10.889	10.889	(0.948)	69162	25.3305	25
102	n-Propylbenzene	91	10.676	10.676	(0.929)	382492	9.01993	9
103	2-Chlorotoluene	91	10.788	10.788	(0.939)	235833	7.82383	8
104	4-Chlorotoluene	91	10.937	10.937	(0.952)	244209	8.97227	9
105	1,3,5-Trimethylbenzene	105	10.857	10.857	(0.945)	264912	8.77366	9
106	tert-Butylbenzene	119	11.124	11.124	(0.968)	214954	8.57603	8
107	1,2,4-Trimethylbenzene	105	11.183	11.183	(0.974)	243145	8.27111	8
108	sec-Butylbenzene	105	11.273	11.274	(0.981)	292467	8.52294	8
109	4-Isopropyltoluene	119	11.396	11.396	(0.992)	232357	8.15696	8
110	1,3-Dichlorobenzene	146	11.423	11.423	(0.994)	138411	8.48515	8
111	1,4-Dichlorobenzene	146	11.498	11.498	(1.001)	140218	8.49206	8
112	1,2-Dichlorobenzene	146	11.828	11.823	(1.030)	119983	7.98709	8
113	Benzyl Chloride	126	11.700	11.701	(1.019)	27027	9.10819	9
115	n-Butylbenzene	91	11.727	11.727	(1.021)	188293	7.40152	7
119	1,2-Dibromo-3-chloropropane	75	12.426	12.426	(1.082)	11573	8.15923	8
120	Nitrobenzene	77	12.832	12.832	(1.117)	34424	84.5308	84
121	1,2,4-Trichlorobenzene	180	12.922	12.923	(1.125)	90729	7.40749	7
122	Hexachlorobutadiene	225	12.917	12.912	(1.125)	46898	7.78447	8
123	Naphthalene	128	13.152	13.152	(1.145)	174391	7.56538	8
124	1,2,3-Trichlorobenzene	180	13.280	13.280	(1.156)	87708	7.57739	8
$ 125	Bromofluorobenzene	95	10.526	10.526	(0.916)	272335	22.4088	22
M 126	1,2-Dichloroethene (total)	100				228824	19.6987	20
M 127	Xylene (total)	100				460580	26.7629	27

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: V8899.D

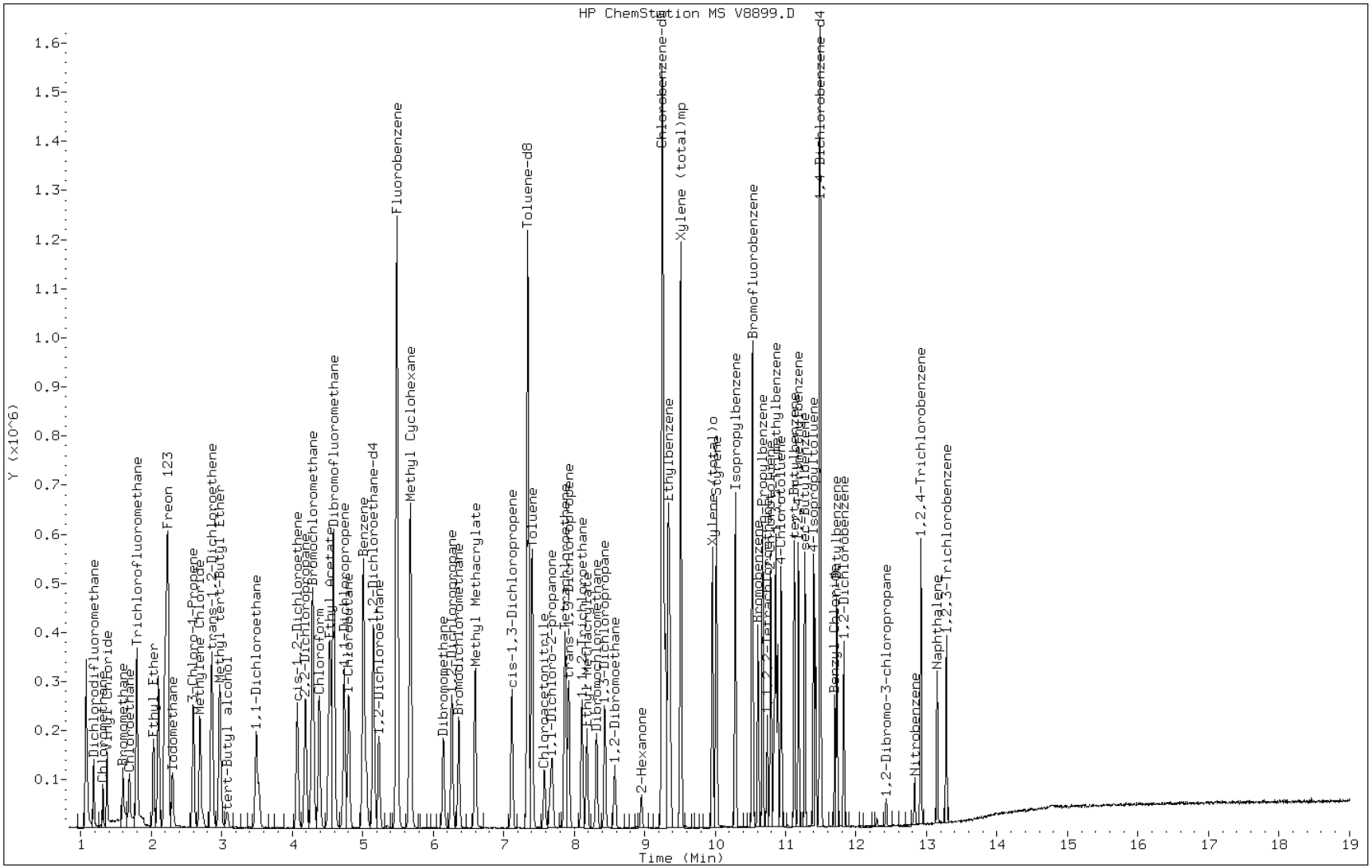
Date: 21-DEC-2009 11:48

Client ID: LCS

Instrument: msv.i

Sample Info: LCS

Operator: B.KOSTRZEWSKA



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34649/2

Matrix: Solid | Lab File ID: O5066.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/23/2009 16:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	32.0		5.0	0.35
74-87-3	Chloromethane	25.8		5.0	0.78
75-01-4	Vinyl chloride	24.4		5.0	0.23
74-83-9	Bromomethane	24.6		5.0	2.1
75-00-3	Chloroethane	22.2		5.0	0.98
75-69-4	Trichlorofluoromethane	22.3		5.0	0.15
75-35-4	1,1-Dichloroethene	24.7		5.0	0.58
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	22.8		5.0	0.79
67-64-1	Acetone	13.9	J	20	2.2
75-15-0	Carbon disulfide	22.8		5.0	0.41
79-20-9	Methyl acetate	10.3		5.0	0.44
75-09-2	Methylene Chloride	23.0		20	1.1
156-60-5	trans-1,2-Dichloroethene	20.7		5.0	0.39
1634-04-4	Methyl tert-butyl ether	21.3		5.0	0.21
75-34-3	1,1-Dichloroethane	20.7		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	20.9		5.0	0.37
78-93-3	Methyl Ethyl Ketone	22.2		10	1.6
67-66-3	Chloroform	22.0		5.0	0.34
71-55-6	1,1,1-Trichloroethane	20.5		5.0	0.53
110-82-7	Cyclohexane	22.0		5.0	0.69
56-23-5	Carbon tetrachloride	22.7		5.0	0.95
71-43-2	Benzene	21.0		5.0	0.57
107-06-2	1,2-Dichloroethane	21.0		5.0	0.58
79-01-6	Trichloroethene	20.8		5.0	0.81
108-87-2	Methylcyclohexane	21.2		5.0	0.33
78-87-5	1,2-Dichloropropane	20.2		5.0	0.67
75-27-4	Bromodichloromethane	19.9		5.0	0.30
10061-01-5	cis-1,3-Dichloropropene	20.1		5.0	0.56
108-10-1	methyl isobutyl ketone	21.6		5.0	0.55
108-88-3	Toluene	20.9		5.0	0.074
10061-02-6	trans-1,3-Dichloropropene	20.9		5.0	0.27
79-00-5	1,1,2-Trichloroethane	21.4		5.0	0.37
127-18-4	Tetrachloroethene	19.8		5.0	0.81
591-78-6	2-Hexanone	18.9		10	1.2
124-48-1	Dibromochloromethane	19.9		5.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34649/2

Matrix: Solid | Lab File ID: O5066.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/23/2009 16:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34649 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	21.1		5.0	0.76
108-90-7	Chlorobenzene	21.0		5.0	0.59
100-41-4	Ethylbenzene	20.4		5.0	0.70
1330-20-7	Xylenes, Total	62.5		5.0	0.49
100-42-5	Styrene	20.9		5.0	0.15
75-25-2	Bromoform	20.8		5.0	0.61
98-82-8	Isopropylbenzene	21.4		5.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	21.9		5.0	0.52
541-73-1	1,3-Dichlorobenzene	20.6		5.0	0.21
106-46-7	1,4-Dichlorobenzene	20.8		5.0	0.67
95-50-1	1,2-Dichlorobenzene	20.5		5.0	0.24
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		10	4.5
120-82-1	1,2,4-Trichlorobenzene	20.2		5.0	0.75

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93	59-132	
460-00-4	4-Bromofluorobenzene	91	34-124	
1868-53-7	Dibromofluoromethane	87	59-123	
2037-26-5	Toluene-d8 (Surr)	91	50-118	

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O5066.D
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 23-DEC-2009 16:19 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : LCS
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095064.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:45 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 68 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CON1006

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
* 1	Fluorobenzene	96	4.016	4.014	(1.000)	250762	25.0000	
2	Dichlorodifluoromethane	85	0.940	0.938	(0.234)	156643	31.9524	32(R)
3	Chloromethane	50	1.029	1.027	(0.256)	207633	25.7521	26
4	Vinyl Chloride	62	1.058	1.066	(0.264)	159589	24.3979	24
5	Bromomethane	94	1.206	1.204	(0.300)	107383	24.6418	25
6	Chloroethane	64	1.265	1.264	(0.315)	79819	22.1875	22
7	Trichlorofluoromethane	101	1.324	1.323	(0.330)	188579	22.2877	22
9	Ethyl Ether	45	1.443	1.451	(0.359)	75168	23.3111	23
10	Ethanol	45	1.502	1.500	(0.374)	83340	242.282	240
12	Freon 123	67	1.551	1.559	(0.386)	35686	18.9982	19
13	Trichlorotrifluoroethane	101	1.561	1.559	(0.389)	114678	22.7672	23
14	1,1-Dichloroethene	96	1.551	1.559	(0.386)	95151	24.6831	25
15	Carbon Disulfide	76	1.581	1.579	(0.394)	413610	22.8444	23
16	Iodomethane	142	1.630	1.638	(0.406)	168126	24.0937	24
19	3-Chloro-1-Propene	41	1.788	1.786	(0.445)	267812	21.9849	22
20	Methylene Chloride	84	1.847	1.845	(0.460)	114975	22.9886	23
21	Acetone	43	1.876	1.875	(0.467)	39279	13.8700	14(R)
22	trans-1,2-Dichloroethene	96	1.936	1.934	(0.482)	102117	20.6982	21
23	Methyl Acetate	43	1.926	1.924	(0.480)	232109	10.2946	10
24	Methyl tert-Butyl Ether	73	1.985	1.983	(0.494)	292477	21.2842	21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
	25 tert-Butyl alcohol	59	2.044	2.042	(0.509)	76163	104.758	100
	30 Acrylonitrile	53	2.350	2.348	(0.585)	70917	38.6474	39
	31 1,1-Dichloroethane	63	2.310	2.309	(0.575)	240398	20.7326	21
	33 cis-1,2-Dichloroethene	96	2.704	2.713	(0.674)	109852	20.9301	21
	34 2,2-Dichloropropane	77	2.793	2.802	(0.696)	221754	21.6180	22
	35 Bromochloromethane	128	2.872	2.880	(0.715)	52721	22.3064	22
	37 Cyclohexane	84	2.882	2.880	(0.718)	189957	21.9626	22
	38 Chloroform	83	2.931	2.940	(0.730)	240217	22.0180	22
	39 Ethyl Acetate	43	3.050	3.068	(0.759)	73176	203.679	200(R)
	40 Methyl Acrylate	55	3.059	3.058	(0.762)	104941	24.1607	24
$	41 Dibromofluoromethane	111	3.109	3.107	(0.774)	107683	21.8654	22
	42 Tetrahydrofuran	42	3.079	3.078	(0.767)	98043	51.4662	51
	43 Carbon Tetrachloride	117	3.069	3.068	(0.764)	186298	22.7219	23
	44 1,1,1-Trichloroethane	97	3.128	3.127	(0.779)	186804	20.5352	20
	45 2-Butanone	43	3.227	3.235	(0.804)	65731	22.1797	22
	46 1,1-Dichloropropene	75	3.247	3.255	(0.809)	180958	20.9077	21
	49 1-Chlorobutane	56	3.296	3.304	(0.821)	293764	20.4610	20
	51 Propionitrile	54	3.542	3.541	(0.882)	140542	217.762	220
	52 Benzene	78	3.503	3.511	(0.872)	421865	20.9631	21
	53 2-Methyl-2-Propenenitrile	41	3.562	3.561	(0.887)	82200	23.8789	24
$	55 1,2-Dichloroethane-d4	65	3.661	3.669	(0.912)	133070	23.2802	23
	56 1,2-Dichloroethane	62	3.740	3.748	(0.931)	167946	21.0313	21(H)
	59 Methyl Cyclohexane	83	4.213	4.221	(1.049)	200533	21.1968	21
	60 Trichloroethene	130	4.242	4.241	(1.056)	106536	20.7847	21
	63 Dibromomethane	93	4.745	4.744	(1.182)	60662	19.8839	20
	64 1,2-Dichloropropane	63	4.864	4.872	(1.211)	114344	20.1753	20
	65 Bromodichloromethane	83	4.962	4.961	(1.236)	157707	19.9371	20
	66 Methyl Methacrylate	69	5.189	5.187	(1.292)	132487	39.8098	40
	70 cis-1,3-Dichloropropene	75	5.662	5.670	(1.410)	175013	20.0714	20
	71 Chloroacetonitrile	48	6.096	6.094	(1.518)	86573	454.024	450
	72 2-Nitropropane	41	6.145	6.144	(1.530)	85240	48.6820	49
	73 trans-1,3-Dichloropropene	75	6.352	6.351	(1.582)	167343	20.9177	21
	74 1,1,2-Trichloroethane	97	6.500	6.499	(1.619)	72232	21.4032	21
*	75 Chlorobenzene-d5	117	7.358	7.356	(1.000)	203736	25.0000	
	76 Toluene	91	5.909	5.907	(0.803)	439141	20.8880	21
$	77 Toluene-d8	98	5.859	5.858	(0.796)	355437	22.7092	23
	78 1,1-Dichloro-2-propanone	43	6.155	6.163	(0.837)	350765	104.707	100(M)
	79 4-Methyl-2-Pentanone	43	6.323	6.321	(0.859)	139336	21.5872	22
	80 Tetrachloroethene	164	6.293	6.291	(0.855)	92191	19.7947	20
	81 Ethyl Methacrylate	69	6.549	6.548	(0.890)	135415	21.4699	21
	82 Dibromochloromethane	129	6.658	6.656	(0.905)	101250	19.9227	20
	83 1,3-Dichloropropane	76	6.747	6.755	(0.917)	147359	20.4413	20
	84 1,2-Dibromoethane	107	6.855	6.863	(0.932)	80753	21.0818	21
	86 2-Hexanone	43	7.141	7.139	(0.971)	97974	18.8661	19
	87 1-Chlorohexane	91	7.397	7.406	(1.005)	198211	17.4320	17(M)
	88 Chlorobenzene	112	7.368	7.366	(1.001)	257956	21.0340	21
	89 1,1,1,2-Tetrachloroethane	131	7.437	7.445	(1.011)	94428	20.0636	20
	90 Ethylbenzene	106	7.417	7.415	(1.008)	136063	20.3576	20
	91 Xylene (total)mp	106	7.555	7.563	(1.027)	344366	41.7922	42
	92 Xylene (total)o	106	7.939	7.938	(1.079)	159904	20.6697	21
	93 Styrene	104	7.989	7.987	(1.086)	258742	20.8919	21
	94 Bromoform	173	7.989	7.997	(1.086)	70316	20.8473	21
*	95 1,4-Dichlorobenzene-d4	152	9.438	9.446	(1.000)	106418	25.0000	
	96 Isopropylbenzene	105	8.225	8.234	(0.872)	462049	21.3539	21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
97	Bromobenzene	156	8.541	8.539	(0.905)	112984	20.6917	21
98	1,1,2,2-Tetrachloroethane	83	8.669	8.677	(0.919)	105279	21.9095	22
100	1,2,3-Trichloropropane	110	8.768	8.776	(0.929)	27895	21.5079	22
101	trans-1,4-Dichloro-2-Butene	53	8.817	8.825	(0.934)	78289	43.0279	43
102	n-Propylbenzene	91	8.600	8.598	(0.911)	592709	20.7837	21
103	2-Chlorotoluene	91	8.718	8.717	(0.924)	352808	18.4116	18
104	4-Chlorotoluene	91	8.866	8.865	(0.939)	358443	21.0728	21
105	1,3,5-Trimethylbenzene	105	8.777	8.786	(0.930)	363358	20.2631	20
106	tert-Butylbenzene	119	9.054	9.052	(0.959)	319039	20.7484	21
107	1,2,4-Trimethylbenzene	105	9.113	9.121	(0.966)	347753	20.0106	20
108	sec-Butylbenzene	105	9.211	9.210	(0.976)	484737	20.7536	21
109	4-Isopropyltoluene	119	9.339	9.348	(0.990)	390102	20.9105	21
110	1,3-Dichlorobenzene	146	9.369	9.377	(0.993)	194144	20.5519	20
111	1,4-Dichlorobenzene	146	9.458	9.456	(1.002)	193167	20.7693	21
112	1,2-Dichlorobenzene	146	9.813	9.821	(1.040)	169486	20.5358	20
113	Benzyl Chloride	126	9.684	9.683	(1.026)	32150	21.7398	22
115	n-Butylbenzene	91	9.704	9.712	(1.028)	476751	22.8214	23
118	1,2,4,5-Tetramethylbenzene	119	10.365	10.363	(1.098)	5604	0.39374	0.4
119	1,2-Dibromo-3-chloropropane	75	10.513	10.521	(1.114)	18207	21.5322	22
120	Nitrobenzene	77	11.006	11.004	(1.166)	20249	185.243	180
121	1,2,4-Trichlorobenzene	180	11.114	11.112	(1.178)	99935	20.2448	20
122	Hexachlorobutadiene	225	11.104	11.103	(1.177)	96955	21.0906	21
123	Naphthalene	128	11.390	11.388	(1.207)	146301	17.6433	18
124	1,2,3-Trichlorobenzene	180	11.558	11.556	(1.225)	77918	18.5130	18
$ 125	Bromofluorobenzene	95	8.462	8.460	(0.897)	156945	22.8319	23
M 126	1,2-Dichloroethene (total)	100				211969	41.6283	42
M 127	Xylene (total)	100				504270	62.4619	62

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: O5066.D

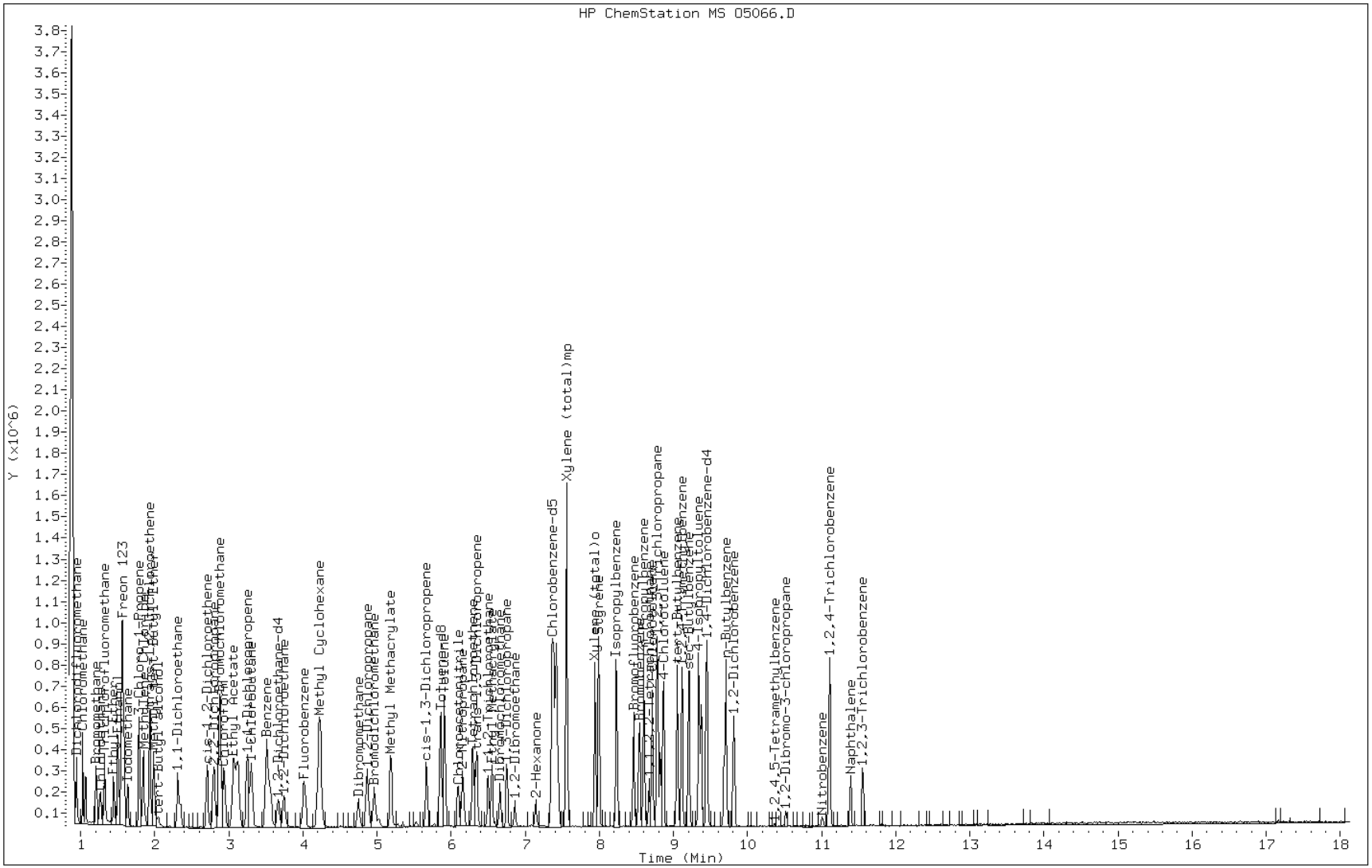
Date: 23-DEC-2009 16:19

Client ID: LCS

Instrument: mso.i

Sample Info: LCS

Operator: D. HUMBERT



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34652/2

Matrix: Solid | Lab File ID: O5094.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 08:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34652 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	31.6		5.0	0.35
74-87-3	Chloromethane	23.8		5.0	0.78
75-01-4	Vinyl chloride	22.8		5.0	0.23
74-83-9	Bromomethane	24.1		5.0	2.1
75-00-3	Chloroethane	21.3		5.0	0.98
75-69-4	Trichlorofluoromethane	21.8		5.0	0.15
75-35-4	1,1-Dichloroethene	23.7		5.0	0.58
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	21.4		5.0	0.79
67-64-1	Acetone	15.7	J	20	2.2
75-15-0	Carbon disulfide	21.4		5.0	0.41
79-20-9	Methyl acetate	9.69		5.0	0.44
75-09-2	Methylene Chloride	21.7		20	1.1
156-60-5	trans-1,2-Dichloroethene	19.8		5.0	0.39
1634-04-4	Methyl tert-butyl ether	20.5		5.0	0.21
75-34-3	1,1-Dichloroethane	20.0		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	20.0		5.0	0.37
78-93-3	Methyl Ethyl Ketone	18.9		10	1.6
67-66-3	Chloroform	20.9		5.0	0.34
71-55-6	1,1,1-Trichloroethane	19.6		5.0	0.53
110-82-7	Cyclohexane	19.7		5.0	0.69
56-23-5	Carbon tetrachloride	18.3		5.0	0.95
71-43-2	Benzene	19.9		5.0	0.57
107-06-2	1,2-Dichloroethane	19.9		5.0	0.58
79-01-6	Trichloroethene	19.2		5.0	0.81
108-87-2	Methylcyclohexane	20.4		5.0	0.33
78-87-5	1,2-Dichloropropane	19.4		5.0	0.67
75-27-4	Bromodichloromethane	17.9		5.0	0.30
10061-01-5	cis-1,3-Dichloropropene	19.2		5.0	0.56
108-10-1	methyl isobutyl ketone	20.0		5.0	0.55
108-88-3	Toluene	19.4		5.0	0.074
10061-02-6	trans-1,3-Dichloropropene	20.2		5.0	0.27
79-00-5	1,1,2-Trichloroethane	20.0		5.0	0.37
127-18-4	Tetrachloroethene	18.7		5.0	0.81
591-78-6	2-Hexanone	17.0		10	1.2
124-48-1	Dibromochloromethane	18.7		5.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34652/2

Matrix: Solid | Lab File ID: O5094.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/24/2009 08:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

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

Analysis Batch No.: 34652 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	19.5		5.0	0.76
108-90-7	Chlorobenzene	19.4		5.0	0.59
100-41-4	Ethylbenzene	19.6		5.0	0.70
1330-20-7	Xylenes, Total	57.8		5.0	0.49
100-42-5	Styrene	19.5		5.0	0.15
75-25-2	Bromoform	18.2		5.0	0.61
98-82-8	Isopropylbenzene	20.3		5.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	20.7		5.0	0.52
541-73-1	1,3-Dichlorobenzene	19.8		5.0	0.21
106-46-7	1,4-Dichlorobenzene	19.5		5.0	0.67
95-50-1	1,2-Dichlorobenzene	19.9		5.0	0.24
96-12-8	1,2-Dibromo-3-Chloropropane	19.1		10	4.5
120-82-1	1,2,4-Trichlorobenzene	18.8		5.0	0.75

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93	59-132	
460-00-4	4-Bromofluorobenzene	90	34-124	
1868-53-7	Dibromofluoromethane	86	59-123	
2037-26-5	Toluene-d8 (Surr)	88	50-118	

Test America Inc

Volatile Report SW-846 Method 8260B

Data file : \\consvr05\Files\chem\VOA\mso.i\O095092.b\O5094.D
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 24-DEC-2009 08:30 MS Autotune Date: 23-DEC-2009 07:28
Operator : D. HUMBERT Inst ID: mso.i
Smp Info : LCS
Misc Info : : ;;; ; 8260 ; 1 ; LLS
Comment :
Method : \\consvr05\Files\chem\VOA\mso.i\O095092.b\O8260BNS.m
Meth Date : 24-Dec-2009 10:47 dave Quant Type: ISTD
Cal Date : 23-DEC-2009 13:26 Cal File: O5062.D
Als bottle: 91
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf *1/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
* 1	Fluorobenzene	96	4.008	4.007	(1.000)	269046	25.0000	
2	Dichlorodifluoromethane	85	0.942	0.941	(0.235)	166473	31.6498	32(R)
3	Chloromethane	50	1.021	1.029	(0.255)	205779	23.7877	24
4	Vinyl Chloride	62	1.060	1.059	(0.265)	160288	22.8394	23
5	Bromomethane	94	1.208	1.207	(0.301)	112533	24.0687	24
6	Chloroethane	64	1.257	1.256	(0.314)	82131	21.2787	21
7	Trichlorofluoromethane	101	1.316	1.315	(0.329)	197847	21.7939	22
9	Ethyl Ether	45	1.445	1.443	(0.361)	73188	21.1546	21
10	Ethanol	45	1.494	1.493	(0.373)	81772	221.568	220
12	Freon 123	67	1.553	1.552	(0.388)	35580	17.6545	18
13	Trichlorotrifluoroethane	101	1.563	1.562	(0.390)	115822	21.4317	21
14	1,1-Dichloroethene	96	1.553	1.552	(0.388)	97993	23.6928	24
15	Carbon Disulfide	76	1.573	1.581	(0.392)	414958	21.3613	21
16	Iodomethane	142	1.632	1.631	(0.407)	153217	20.4649	20
19	3-Chloro-1-Propene	41	1.780	1.779	(0.444)	273012	20.8887	21
20	Methylene Chloride	84	1.839	1.838	(0.459)	116534	21.7168	22
21	Acetone	43	1.869	1.867	(0.466)	47737	15.7110	16(R)
22	trans-1,2-Dichloroethene	96	1.928	1.926	(0.481)	104613	19.7631	20
23	Methyl Acetate	43	1.918	1.926	(0.479)	234471	9.69263	10
24	Methyl tert-Butyl Ether	73	1.977	1.976	(0.493)	301930	20.4789	20
25	tert-Butyl alcohol	59	2.036	2.035	(0.508)	74225	95.1540	95

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
	30 Acrylonitrile	53	2.342	2.341	(0.584)	71443	36.2882	36
	31 1,1-Dichloroethane	63	2.302	2.301	(0.575)	249047	20.0189	20
	33 cis-1,2-Dichloroethene	96	2.697	2.705	(0.673)	112477	19.9739	20
	34 2,2-Dichloropropane	77	2.785	2.794	(0.695)	226281	20.5602	20
	35 Bromochloromethane	128	2.864	2.873	(0.715)	50839	20.0483	20
	37 Cyclohexane	84	2.874	2.873	(0.717)	182503	19.6668	20
	38 Chloroform	83	2.923	2.932	(0.729)	244681	20.9030	21
	39 Ethyl Acetate	43	3.042	3.041	(0.759)	65079	168.831	170(R)
	40 Methyl Acrylate	55	3.042	3.050	(0.759)	101648	21.8122	22
$	41 Dibromofluoromethane	111	3.091	3.090	(0.771)	113907	21.5573	22
	42 Tetrahydrofuran	42	3.071	3.070	(0.766)	93002	45.5023	46
	43 Carbon Tetrachloride	117	3.061	3.060	(0.764)	161242	18.3295	18
	44 1,1,1-Trichloroethane	97	3.121	3.119	(0.779)	190935	19.5629	20
	45 2-Butanone	43	3.219	3.218	(0.803)	60096	18.9002	19
	46 1,1-Dichloropropene	75	3.239	3.238	(0.808)	197018	21.2163	21
	49 1-Chlorobutane	56	3.288	3.297	(0.820)	304019	19.7362	20
	51 Propionitrile	54	3.535	3.533	(0.882)	140767	203.288	200
	52 Benzene	78	3.505	3.504	(0.875)	428713	19.8557	20
	53 2-Methyl-2-Propenenitrile	41	3.554	3.553	(0.887)	89676	24.2803	24
$	55 1,2-Dichloroethane-d4	65	3.653	3.652	(0.911)	141994	23.1533	23
	56 1,2-Dichloroethane	62	3.742	3.740	(0.934)	170832	19.9389	20
	59 Methyl Cyclohexane	83	4.215	4.204	(1.052)	206854	20.3790	20
	60 Trichloroethene	130	4.225	4.233	(1.054)	105592	19.2005	19
	63 Dibromomethane	93	4.737	4.736	(1.182)	62707	19.1574	19
	64 1,2-Dichloropropane	63	4.856	4.855	(1.212)	117973	19.4010	19
	65 Bromodichloromethane	83	4.954	4.953	(1.236)	152228	17.9366	18
	66 Methyl Methacrylate	69	5.181	5.180	(1.293)	134396	37.6390	38
	70 cis-1,3-Dichloropropene	75	5.654	5.663	(1.411)	179881	19.2278	19
	71 Chloroacetonitrile	48	6.088	6.087	(1.519)	89505	437.501	440
	72 2-Nitropropane	41	6.137	6.146	(1.531)	76155	40.5377	40
	73 trans-1,3-Dichloropropene	75	6.344	6.343	(1.583)	173149	20.1726	20
	74 1,1,2-Trichloroethane	97	6.492	6.491	(1.620)	72548	20.0359	20
*	75 Chlorobenzene-d5	117	7.350	7.349	(1.000)	218273	25.0000	
	76 Toluene	91	5.901	5.900	(0.803)	436177	19.3653	19
$	77 Toluene-d8	98	5.851	5.850	(0.796)	369656	22.0447	22
	78 1,1-Dichloro-2-propanone	43	6.147	6.156	(0.836)	332805	92.7297	93(M)
	79 4-Methyl-2-Pentanone	43	6.315	6.314	(0.859)	138250	19.9924	20
	80 Tetrachloroethene	164	6.285	6.284	(0.855)	93154	18.6694	19
	81 Ethyl Methacrylate	69	6.542	6.550	(0.890)	134304	19.8756	20
	82 Dibromochloromethane	129	6.650	6.649	(0.905)	102012	18.7358	19
	83 1,3-Dichloropropane	76	6.749	6.747	(0.918)	152669	19.7675	20
	84 1,2-Dibromoethane	107	6.847	6.856	(0.932)	80210	19.5455	20
	86 2-Hexanone	43	7.133	7.132	(0.970)	94373	16.9624	17
	87 1-Chlorohexane	91	7.389	7.398	(1.005)	158930	13.0465	13(M)
	88 Chlorobenzene	112	7.360	7.368	(1.001)	254675	19.3834	19
	89 1,1,1,2-Tetrachloroethane	131	7.439	7.438	(1.012)	93699	18.5828	18
	90 Ethylbenzene	106	7.409	7.418	(1.008)	140454	19.6150	20
	91 Xylene (total)mp	106	7.557	7.556	(1.028)	339770	38.4882	38
	92 Xylene (total)o	106	7.932	7.930	(1.079)	159688	19.2671	19
	93 Styrene	104	7.981	7.990	(1.086)	259345	19.5459	20
	94 Bromoform	173	7.991	7.990	(1.087)	65817	18.2139	18
*	95 1,4-Dichlorobenzene-d4	152	9.440	9.439	(1.000)	110892	25.0000	
	96 Isopropylbenzene	105	8.227	8.226	(0.872)	458546	20.3370	20
	97 Bromobenzene	156	8.533	8.532	(0.904)	111195	19.5425	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
98	1,1,2,2-Tetrachloroethane	83	8.671	8.670	(0.919)	103506	20.6714	21
100	1,2,3-Trichloropropane	110	8.770	8.768	(0.929)	27935	20.6698	21
101	trans-1,4-Dichloro-2-Butene	53	8.819	8.818	(0.934)	77853	41.0620	41
102	n-Propylbenzene	91	8.592	8.591	(0.910)	594071	19.9910	20
103	2-Chlorotoluene	91	8.710	8.709	(0.923)	346128	17.3342	17
104	4-Chlorotoluene	91	8.858	8.857	(0.938)	360499	20.3386	20
105	1,3,5-Trimethylbenzene	105	8.779	8.778	(0.930)	368276	19.7087	20
106	tert-Butylbenzene	119	9.046	9.044	(0.958)	324967	20.2812	20
107	1,2,4-Trimethylbenzene	105	9.115	9.113	(0.966)	350742	19.3683	19
108	sec-Butylbenzene	105	9.203	9.202	(0.975)	485655	19.9540	20
109	4-Isopropyltoluene	119	9.341	9.340	(0.990)	388913	20.0056	20
110	1,3-Dichlorobenzene	146	9.371	9.370	(0.993)	194803	19.7897	20
111	1,4-Dichlorobenzene	146	9.450	9.449	(1.001)	188954	19.4967	19
112	1,2-Dichlorobenzene	146	9.815	9.813	(1.040)	171280	19.9158	20
113	Benzyl Chloride	126	9.677	9.675	(1.025)	32108	20.8354	21
115	n-Butylbenzene	91	9.706	9.705	(1.028)	439502	20.1895	20(M)
118	1,2,4,5-Tetramethylbenzene	119	10.367	10.356	(1.098)	4003	0.26991	0.3
119	1,2-Dibromo-3-chloropropane	75	10.515	10.513	(1.114)	16864	19.1393	19
120	Nitrobenzene	77	10.998	11.006	(1.165)	11533	148.528	150
121	1,2,4-Trichlorobenzene	180	11.106	11.105	(1.176)	95689	18.7666	19
122	Hexachlorobutadiene	225	11.096	11.105	(1.175)	93869	19.5955	20
123	Naphthalene	128	11.392	11.391	(1.207)	165038	19.1147	19
124	1,2,3-Trichlorobenzene	180	11.550	11.549	(1.223)	75731	17.3589	17
$ 125	Bromofluorobenzene	95	8.454	8.463	(0.896)	160990	22.4754	22
M 126	1,2-Dichloroethene (total)	100				217090	39.7370	40
M 127	Xylene (total)	100				499458	57.7553	58

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: O5094.D

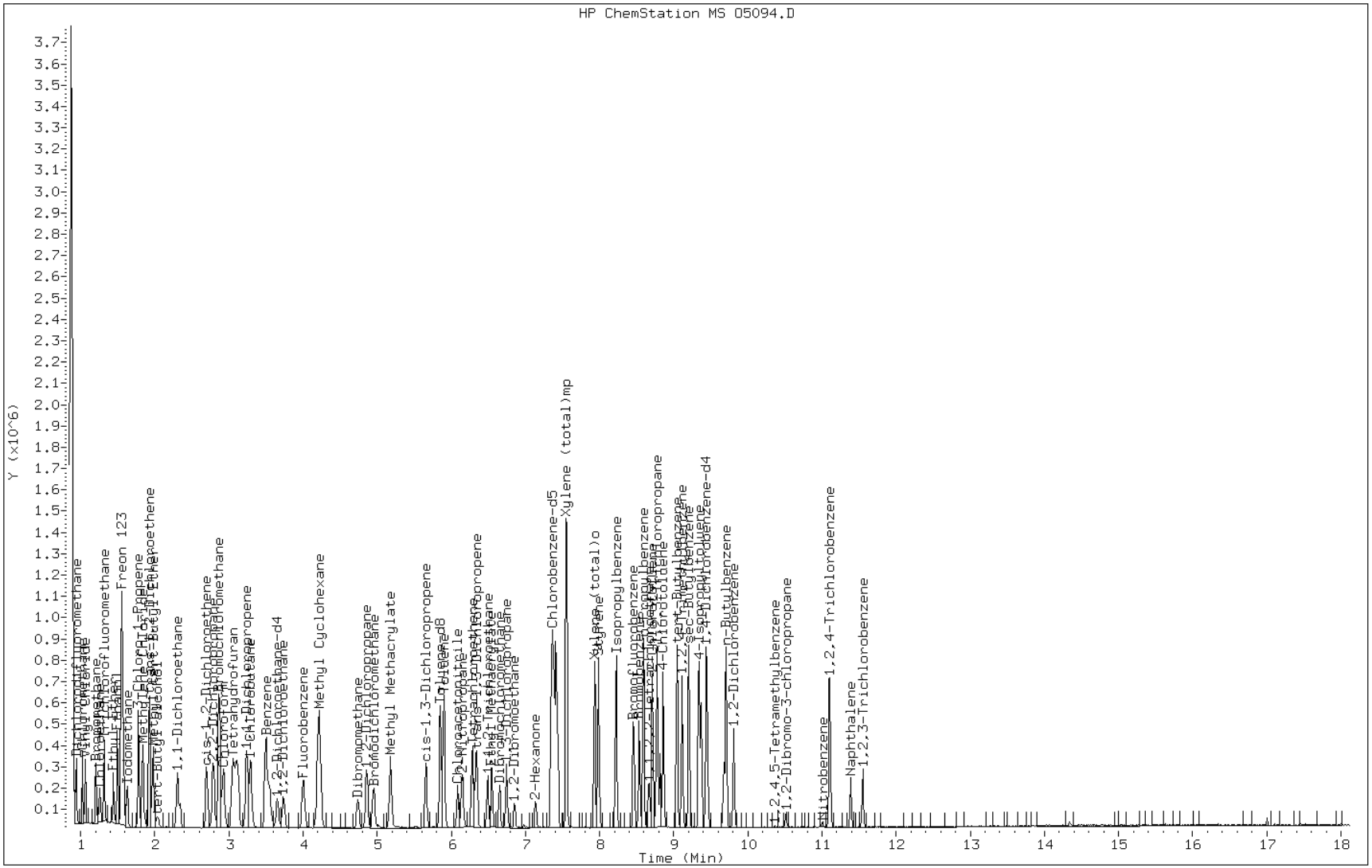
Date: 24-DEC-2009 08:30

Client ID: LCS

Instrument: mso.i

Sample Info: LCS

Operator: D. HUMBERT



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSO Start Date: 12/23/2009 10:32

Analysis Batch Number: 34635 End Date: 12/23/2009 14:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 220-34635/7		12/23/2009 10:32	1	OB556.D	RTX-VMS 0.18(mm)
IC 220-34635/1		12/23/2009 10:57	1	O5057.D	RTX-VMS 0.18(mm)
IC 220-34635/2		12/23/2009 11:46	1	O5058.D	RTX-VMS 0.18(mm)
IC 220-34635/3		12/23/2009 12:11	1	O5059.D	RTX-VMS 0.18(mm)
IC 220-34635/4		12/23/2009 12:36	1	O5060.D	RTX-VMS 0.18(mm)
IC 220-34635/5		12/23/2009 13:26	1	O5062.D	RTX-VMS 0.18(mm)
IC 220-34635/6		12/23/2009 14:02	1	O5063.D	RTX-VMS 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSO Start Date: 12/23/2009 14:38

Analysis Batch Number: 34649 End Date: 12/24/2009 01:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 220-34649/22		12/23/2009 14:38	1	OB557.D	RTX-VMS 0.18(mm)
CCVIS 220-34649/1		12/23/2009 15:41	1	O5065.D	RTX-VMS 0.18(mm)
LCS 220-34649/2		12/23/2009 16:19	1	O5066.D	RTX-VMS 0.18(mm)
MB 220-34649/3		12/23/2009 16:54	1	O5067.D	RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 17:33	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 17:58	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 18:23	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 18:48	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 19:13	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 19:38	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 20:03	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 20:28	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 20:53	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 21:18	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 21:42	1		RTX-VMS 0.18(mm)
ZZZZZ		12/23/2009 22:57	1		RTX-VMS 0.18(mm)
220-11066-8	PBL-2-60-E(4')	12/23/2009 23:22	1	O5082.D	RTX-VMS 0.18(mm)
220-11066-9	PBL-2-60-E(4') F.D.	12/23/2009 23:47	1	O5083.D	RTX-VMS 0.18(mm)
220-11066-10	PBL-2-30-N(10')	12/24/2009 00:12	1	O5084.D	RTX-VMS 0.18(mm)
220-11066-11	PBL-2-30-N(10') F.D.	12/24/2009 00:37	1	O5085.D	RTX-VMS 0.18(mm)
220-11066-12	PBL-2-60-N(11')	12/24/2009 01:01	1	O5086.D	RTX-VMS 0.18(mm)
220-11066-7	PBL-1-30-E(9') F.D.	12/24/2009 01:51	5	O5088.D	RTX-VMS 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSO Start Date: 12/24/2009 07:29

Analysis Batch Number: 34652 End Date: 12/24/2009 18:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 220-34652/6		12/24/2009 07:29	1	OB558.D	RTX-VMS 0.18(mm)
CCVIS 220-34652/1		12/24/2009 07:53	1	O5093.D	RTX-VMS 0.18(mm)
LCS 220-34652/2		12/24/2009 08:30	1	O5094.D	RTX-VMS 0.18(mm)
MB 220-34652/3		12/24/2009 09:10	1	O5095.D	RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 09:50	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 10:15	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 11:33	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 11:58	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 12:22	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 12:47	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 13:37	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 14:02	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 14:27	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 14:52	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 15:16	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 15:41	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 16:06	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 16:31	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 16:56	1		RTX-VMS 0.18(mm)
ZZZZZ		12/24/2009 17:45	1		RTX-VMS 0.18(mm)
220-11066-6	PBL-1-30-E(9')	12/24/2009 18:10	5	O5116.D	RTX-VMS 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSV Start Date: 12/07/2009 13:41

Analysis Batch Number: 34085 End Date: 12/07/2009 21:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 220-34085/8		12/07/2009 13:41	1	VB871.D	RTX-VMS 0.18(mm)
IC 220-34085/1		12/07/2009 15:46	1	V8457.D	RTX-VMS 0.18(mm)
IC 220-34085/2		12/07/2009 17:00	1	V8458.D	RTX-VMS 0.18(mm)
IC 220-34085/3		12/07/2009 17:33	1	V8459.D	RTX-VMS 0.18(mm)
IC 220-34085/4		12/07/2009 17:59	1	V8460.D	RTX-VMS 0.18(mm)
IC 220-34085/5		12/07/2009 18:26	1	V8461.D	RTX-VMS 0.18(mm)
IC 220-34085/6		12/07/2009 21:55	1	V8468.D	RTX-VMS 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSV Start Date: 12/21/2009 10:26

Analysis Batch Number: 34565 End Date: 12/21/2009 22:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 220-34565/1		12/21/2009 10:26	1		RTX-VMS 0.18(mm)
BFB 220-34565/5		12/21/2009 11:02	1	VB885.D	RTX-VMS 0.18(mm)
CCVIS 220-34565/2		12/21/2009 11:11	1	V8898.D	RTX-VMS 0.18(mm)
LCS 220-34565/16		12/21/2009 11:48	1	V8899.D	RTX-VMS 0.18(mm)
MB 220-34565/3		12/21/2009 13:09	1	V8902.D	RTX-VMS 0.18(mm)
ZZZZZ		12/21/2009 16:18	1		RTX-VMS 0.18(mm)
ZZZZZ		12/21/2009 17:39	1		RTX-VMS 0.18(mm)
ZZZZZ		12/21/2009 18:06	1		RTX-VMS 0.18(mm)
ZZZZZ		12/21/2009 18:33	1		RTX-VMS 0.18(mm)
220-11066-14	FB-1	12/21/2009 19:27	1	V8916.D	RTX-VMS 0.18(mm)
220-11066-15	FB-2	12/21/2009 19:54	1	V8917.D	RTX-VMS 0.18(mm)
220-11066-16	FB-3	12/21/2009 20:21	1	V8918.D	RTX-VMS 0.18(mm)
ZZZZZ		12/21/2009 20:48	1		RTX-VMS 0.18(mm)
ZZZZZ		12/21/2009 21:15	1		RTX-VMS 0.18(mm)
ZZZZZ		12/21/2009 21:42	1		RTX-VMS 0.18(mm)
ZZZZZ		12/21/2009 22:36	1		RTX-VMS 0.18(mm)

Method 8270C

Semivolatile Organic Compounds (GC/MS) by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXi-5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
PBL-5-10-E(4')	220-11066-1	49	52	52	54	52	81
PBL-5-2-W(7')	220-11066-2	54	56	57	56	61	87
PBL-5-5-N(6')	220-11066-3	55	58	58	56	57	71
PBL-5-10-N(5')	220-11066-4	49	52	53	51	53	66
PBL-5-10-S(2')	220-11066-5	37	65	88	84	30 *	102
PBL-1-30-E(9')	220-11066-6	55	58	56	71	73	95
PBL-1-30-E(9') F.D.	220-11066-7	59	62	63	74	65	78
PBL-2-60-E(4')	220-11066-8	55	55	57	56	60	63
PBL-2-60-E(4') F.D.	220-11066-9	51	52	55	54	55	59
PBL-2-30-N(10')	220-11066-10	49	49	51	53	59	55
PBL-2-30-N(10') F.D.	220-11066-11	67	67	69	69	74	76
PBL-2-60-N(11')	220-11066-12	68	68	69	69	75	80
PBL-8-60-S(12')	220-11066-13	59	60	61	61	56	75
	MB 220-34351/1-A	67	67	69	65	67	65
	MB 220-34355/1-A	68	69	70	66	70	67
	MB 220-34526/1-A	63	63	64	64	65	61
	LCS 220-34351/2-A	70	69	72	69	76	71
	LCS 220-34355/2-A	70	70	72	68	73	69
	LCS 220-34526/2-A	64	64	65	65	70	69
PBL-2-60-N(11') MS	220-11066-12 MS	63	62	65	64	74	79
PBL-2-60-N(11') MSD	220-11066-12 MSD	58	59	61	62	73	79

	QC LIMITS
2FP = 2-Fluorophenol	34-120
PHL = Phenol-d5	36-120
NBZ = Nitrobenzene-d5	38-120
FBP = 2-Fluorobiphenyl	41-120
TBP = 2,4,6-Tribromophenol	37-120
TPH = Terphenyl-d14	32-125

Column to be used to flag recovery values

FORM II 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXi-5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
FB-1	220-11066-14	33	23	62	63	69	85
FB-2	220-11066-15	34	23	63	63	68	90
FB-3	220-11066-16	36	24	62	62	68	89
	MB 220-34329/1-A	22	15	44	45	57	79
	LCS 220-34329/2-A	27	19	50	54	70	72

	QC LIMITS
2FP = 2-Fluorophenol	13-120
PHL = Phenol-d5	10-120
NBZ = Nitrobenzene-d5	40-120
FBP = 2-Fluorobiphenyl	39-120
TBP = 2,4,6-Tribromophenol	36-120
TPH = Terphenyl-d14	10-120

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Z14568.D

Lab ID: LCS 220-34329/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4,5-Trichlorophenol	40.0	25.4	64	23-123	
2,4,6-Trichlorophenol	40.0	24.7	62	18-125	
2,4-Dichlorophenol	40.0	21.5	54	18-120	
2,4-Dimethylphenol	40.0	20.4	51	26-120	
2,4-Dinitrotoluene	40.0	30.7	77	46-124	
2,4-Dinitrophenol	40.0	28.8	72	17-128	
2,6-Dinitrotoluene	40.0	29.9	75	63-120	
2-Chloronaphthalene	40.0	23.4	58	46-120	
2-Chlorophenol	40.0	18.9	47	18-120	
2-Methylnaphthalene	40.0	21.9	55	44-120	
2-Methylphenol	40.0	18.4	46	25-120	
2-Nitroaniline	40.0	27.0	67	57-120	
2-Nitrophenol	40.0	21.6	54	36-120	
3,3'-Dichlorobenzidine	40.0	20.7	52	39-120	
3-Nitroaniline	40.0	28.7	72	54-120	
4,6-Dinitro-2-methylphenol	40.0	30.0	75	50-120	
4-Bromophenyl phenyl ether	40.0	28.0	70	60-120	
4-Chloro-3-methylphenol	40.0	23.8	60	32-120	
4-Chloroaniline	40.0	23.0	57	33-120	
4-Chlorophenyl phenyl ether	40.0	25.7	64	58-120	
4-Methylphenol	80.0	33.8	42	21-120	
4-Nitroaniline	40.0	26.3	66	54-120	
4-Nitrophenol	40.0	12.3	31	12-120	
Acenaphthene	40.0	24.2	60	52-120	
Acenaphthylene	40.0	23.8	60	52-120	
Anthracene	40.0	29.2	73	60-120	
Benzo[a]anthracene	40.0	30.9	77	60-120	
Benzo[a]pyrene	40.0	29.8	75	51-120	
Benzo[b]fluoranthene	40.0	27.3	68	59-120	
Benzo[g,h,i]perylene	40.0	25.1	63	48-120	
Benzo[k]fluoranthene	40.0	30.7	77	58-120	
Bis(2-chloroethoxy)methane	40.0	22.3	56	48-120	
Bis(2-chloroethyl)ether	40.0	20.1	50	46-120	
Bis(2-ethylhexyl) phthalate	40.0	32.6	82	57-120	
Butyl benzyl phthalate	40.0	30.6	77	53-122	
Carbazole	40.0	30.1	75	62-120	
Chrysene	40.0	30.9	77	59-120	
Di-n-butyl phthalate	40.0	31.5	79	61-120	
Di-n-octyl phthalate	40.0	29.0	72	57-120	
Dibenz(a,h)anthracene	40.0	26.6	66	47-120	
Dibenzofuran	40.0	24.4	61	56-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Z14568.D

Lab ID: LCS 220-34329/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Diethyl phthalate	40.0	29.9	75	57-120	
Dimethyl phthalate	40.0	27.7	69	49-120	
Fluoranthene	40.0	30.9	77	56-120	
Fluorene	40.0	26.6	66	61-120	
Hexachlorobenzene	40.0	28.2	71	59-120	
Hexachlorobutadiene	40.0	18.2	45	30-120	
Hexachlorocyclopentadiene	40.0	15.3	38	15-120	
Hexachloroethane	40.0	16.5	41	29-120	
Indeno[1,2,3-cd]pyrene	40.0	26.4	66	48-120	
Isophorone	40.0	22.4	56	47-120	
N-Nitrosodi-n-propylamine	40.0	22.0	55	49-120	
N-Nitrosodiphenylamine	40.0	28.9	72	62-120	
Naphthalene	40.0	20.5	51	42-120	
Nitrobenzene	40.0	21.1	53	46-120	
Pentachlorophenol	40.0	25.3	63	50-120	
Phenanthrene	40.0	29.1	73	63-120	
Phenol	40.0	9.19	23	10-120	
Pyrene	40.0	30.0	75	62-120	
2,2'-oxybis[1-chloropropane]	40.0	20.3	51	45-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: C15359.D

Lab ID: LCS 220-34351/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
2,4,5-Trichlorophenol	2670	1940	73	56-120	
2,4,6-Trichlorophenol	2670	1990	75	56-120	
2,4-Dichlorophenol	2670	1980	74	54-120	
2,4-Dimethylphenol	2670	1820	68	49-120	
2,4-Dinitrotoluene	2670	2120	80	57-120	
2,4-Dinitrophenol	2670	1540 J	58	33-120	
2,6-Dinitrotoluene	2670	2250	84	59-120	
2-Chloronaphthalene	2670	1940	73	56-120	
2-Chlorophenol	2670	1930	72	54-120	
2-Methylnaphthalene	2670	2040	77	56-120	
2-Methylphenol	2670	1960	74	53-120	
2-Nitroaniline	2670	2080	78	57-120	
2-Nitrophenol	2670	2180	82	56-120	
3,3'-Dichlorobenzidine	2670	1420	53	24-120	
3-Nitroaniline	2670	1550	58	38-120	
4,6-Dinitro-2-methylphenol	2670	1670 J	63	48-120	
4-Bromophenyl phenyl ether	2670	1970	74	57-120	
4-Chloro-3-methylphenol	2670	1990	75	56-120	
4-Chloroaniline	2670	717	27	15-120	
4-Chlorophenyl phenyl ether	2670	1990	74	56-120	
4-Methylphenol	5330	3860	72	54-120	
4-Nitroaniline	2670	2140	80	53-120	
4-Nitrophenol	2670	2080	78	55-120	
Acenaphthene	2670	1950	73	57-120	
Acenaphthylene	2670	1920	72	57-120	
Anthracene	2670	1960	73	58-120	
Benzo[a]anthracene	2670	1970	74	58-120	
Benzo[a]pyrene	2670	1920	72	44-120	
Benzo[b]fluoranthene	2670	1960	73	54-120	
Benzo[g,h,i]perylene	2670	1900	71	37-120	
Benzo[k]fluoranthene	2670	1840	69	53-120	
Bis(2-chloroethoxy)methane	2670	1950	73	56-120	
Bis(2-chloroethyl)ether	2670	1880	70	52-120	
Bis(2-ethylhexyl) phthalate	2670	2070	78	56-120	
Butyl benzyl phthalate	2670	2040	77	54-120	
Carbazole	2670	2020	76	58-120	
Chrysene	2670	1860	70	57-120	
Di-n-butyl phthalate	2670	2030	76	58-120	
Di-n-octyl phthalate	2670	2250	84	48-126	
Dibenz(a,h)anthracene	2670	2030	76	39-120	
Dibenzofuran	2670	1950	73	57-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: C15359.D

Lab ID: LCS 220-34351/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Diethyl phthalate	2670	1730	65	57-120	
Dimethyl phthalate	2670	1960	73	56-120	
Fluoranthene	2670	2020	76	57-120	
Fluorene	2670	2010	75	58-120	
Hexachlorobenzene	2670	1990	75	56-120	
Hexachlorobutadiene	2670	1910	72	54-120	
Hexachlorocyclopentadiene	2670	1850	69	50-120	
Hexachloroethane	2670	1830	68	52-120	
Indeno[1,2,3-cd]pyrene	2670	2060	77	37-120	
Isophorone	2670	1940	73	55-120	
N-Nitrosodi-n-propylamine	2670	1920	72	54-120	
N-Nitrosodiphenylamine	2670	1900	71	59-120	
Naphthalene	2670	1960	74	55-120	
Nitrobenzene	2670	1970	74	54-120	
Pentachlorophenol	2670	1910	72	52-120	
Phenanthrene	2670	1980	74	58-120	
Phenol	2670	1870	70	51-120	
Pyrene	2670	1980	74	54-121	
2,2'-oxybis[1-chloropropane]	2670	1870	70	51-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: C15387.D

Lab ID: LCS 220-34355/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
2,4,5-Trichlorophenol	2670	1880	70	56-120	
2,4,6-Trichlorophenol	2670	1980	74	56-120	
2,4-Dichlorophenol	2670	2000	75	54-120	
2,4-Dimethylphenol	2670	1790	67	49-120	
2,4-Dinitrotoluene	2670	2060	77	57-120	
2,4-Dinitrophenol	2670	1430 J	54	33-120	
2,6-Dinitrotoluene	2670	2210	83	59-120	
2-Chloronaphthalene	2670	1940	73	56-120	
2-Chlorophenol	2670	1970	74	54-120	
2-Methylnaphthalene	2670	2070	78	56-120	
2-Methylphenol	2670	1960	73	53-120	
2-Nitroaniline	2670	2040	76	57-120	
2-Nitrophenol	2670	2190	82	56-120	
3,3'-Dichlorobenzidine	2670	1330	50	24-120	
3-Nitroaniline	2670	1320	50	38-120	
4,6-Dinitro-2-methylphenol	2670	1430 J	54	48-120	
4-Bromophenyl phenyl ether	2670	1980	74	57-120	
4-Chloro-3-methylphenol	2670	1990	75	56-120	
4-Chloroaniline	2670	686	26	15-120	
4-Chlorophenyl phenyl ether	2670	2000	75	56-120	
4-Methylphenol	5330	3940	74	54-120	
4-Nitroaniline	2670	1940	73	53-120	
4-Nitrophenol	2670	2070	78	55-120	
Acenaphthene	2670	1950	73	57-120	
Acenaphthylene	2670	1910	71	57-120	
Anthracene	2670	1920	72	58-120	
Benzo[a]anthracene	2670	1970	74	58-120	
Benzo[a]pyrene	2670	1960	74	44-120	
Benzo[b]fluoranthene	2670	1970	74	54-120	
Benzo[g,h,i]perylene	2670	1980	74	37-120	
Benzo[k]fluoranthene	2670	1950	73	53-120	
Bis(2-chloroethoxy)methane	2670	1940	73	56-120	
Bis(2-chloroethyl)ether	2670	1910	72	52-120	
Bis(2-ethylhexyl) phthalate	2670	2040	76	56-120	
Butyl benzyl phthalate	2670	1970	74	54-120	
Carbazole	2670	1970	74	58-120	
Chrysene	2670	1860	70	57-120	
Di-n-butyl phthalate	2670	1970	74	58-120	
Di-n-octyl phthalate	2670	2160	81	48-126	
Dibenz(a,h)anthracene	2670	2120	79	39-120	
Dibenzofuran	2670	1960	73	57-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: C15387.D

Lab ID: LCS 220-34355/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Diethyl phthalate	2670	1690	63	57-120	
Dimethyl phthalate	2670	1900	71	56-120	
Fluoranthene	2670	1990	74	57-120	
Fluorene	2670	1960	74	58-120	
Hexachlorobenzene	2670	2010	75	56-120	
Hexachlorobutadiene	2670	2010	75	54-120	
Hexachlorocyclopentadiene	2670	1960	73	50-120	
Hexachloroethane	2670	1890	71	52-120	
Indeno[1,2,3-cd]pyrene	2670	2140	80	37-120	
Isophorone	2670	1920	72	55-120	
N-Nitrosodi-n-propylamine	2670	1980	74	54-120	
N-Nitrosodiphenylamine	2670	1900	71	59-120	
Naphthalene	2670	1960	74	55-120	
Nitrobenzene	2670	1980	74	54-120	
Pentachlorophenol	2670	1760	66	52-120	
Phenanthrene	2670	1940	73	58-120	
Phenol	2670	1870	70	51-120	
Pyrene	2670	1960	73	54-121	
2,2'-oxybis[1-chloropropane]	2670	1840	69	51-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: A9263.D

Lab ID: LCS 220-34526/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
2,4,5-Trichlorophenol	2670	1930	72	56-120	
2,4,6-Trichlorophenol	2670	1930	72	56-120	
2,4-Dichlorophenol	2670	1840	69	54-120	
2,4-Dimethylphenol	2670	1750	66	49-120	
2,4-Dinitrotoluene	2670	2080	78	57-120	
2,4-Dinitrophenol	2670	2170	81	33-120	
2,6-Dinitrotoluene	2670	2080	78	59-120	
2-Chloronaphthalene	2670	1890	71	56-120	
2-Chlorophenol	2670	1790	67	54-120	
2-Methylnaphthalene	2670	1870	70	56-120	
2-Methylphenol	2670	1830	69	53-120	
2-Nitroaniline	2670	1940	73	57-120	
2-Nitrophenol	2670	1810	68	56-120	
3,3'-Dichlorobenzidine	2670	1970	74	24-120	
3-Nitroaniline	2670	1590	60	38-120	
4,6-Dinitro-2-methylphenol	2670	2080	78	48-120	
4-Bromophenyl phenyl ether	2670	1990	75	57-120	
4-Chloro-3-methylphenol	2670	1960	73	56-120	
4-Chloroaniline	2670	1330	50	15-120	
4-Chlorophenyl phenyl ether	2670	1970	74	56-120	
4-Methylphenol	5330	3550	67	54-120	
4-Nitroaniline	2670	2020	76	53-120	
4-Nitrophenol	2670	2140	80	55-120	
Acenaphthene	2670	1840	69	57-120	
Acenaphthylene	2670	1830	69	57-120	
Anthracene	2670	2010	75	58-120	
Benzo[a]anthracene	2670	2060	77	58-120	
Benzo[a]pyrene	2670	2040	77	44-120	
Benzo[b]fluoranthene	2670	1880	71	54-120	
Benzo[g,h,i]perylene	2670	2480	93	37-120	
Benzo[k]fluoranthene	2670	1700	64	53-120	
Bis(2-chloroethoxy)methane	2670	1800	68	56-120	
Bis(2-chloroethyl)ether	2670	1720	65	52-120	
Bis(2-ethylhexyl) phthalate	2670	2400	90	56-120	
Butyl benzyl phthalate	2670	2130	80	54-120	
Carbazole	2670	2070	78	58-120	
Chrysene	2670	2010	75	57-120	
Di-n-butyl phthalate	2670	2200	82	58-120	
Di-n-octyl phthalate	2670	1730	65	48-126	
Dibenz(a,h)anthracene	2670	2800	105	39-120	
Dibenzofuran	2670	1900	71	57-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: A9263.D

Lab ID: LCS 220-34526/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Diethyl phthalate	2670	2070	78	57-120	
Dimethyl phthalate	2670	1920	72	56-120	
Fluoranthene	2670	2120	80	57-120	
Fluorene	2670	1940	73	58-120	
Hexachlorobenzene	2670	1970	74	56-120	
Hexachlorobutadiene	2670	1790	67	54-120	
Hexachlorocyclopentadiene	2670	1550	58	50-120	
Hexachloroethane	2670	1670	63	52-120	
Indeno[1,2,3-cd]pyrene	2670	2940	110	37-120	
Isophorone	2670	1800	68	55-120	
N-Nitrosodi-n-propylamine	2670	1830	69	54-120	
N-Nitrosodiphenylamine	2670	1920	72	59-120	
Naphthalene	2670	1760	66	55-120	
Nitrobenzene	2670	1750	66	54-120	
Pentachlorophenol	2670	2260	85	52-120	
Phenanthrene	2670	1990	74	58-120	
Phenol	2670	1790	67	51-120	
Pyrene	2670	1900	71	54-121	
2,2'-oxybis[1-chloropropane]	2670	1760	66	51-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: C15404.D

Lab ID: 220-11066-12 MS Client ID: PBL-2-60-N(11') MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
2,4,5-Trichlorophenol	3600	2300 U	2740	76	56-120	
2,4,6-Trichlorophenol	3600	360 U	2720	76	56-120	
2,4-Dichlorophenol	3600	360 U	2550	71	54-120	
2,4-Dimethylphenol	3600	360 U	2670	74	49-120	
2,4-Dinitrotoluene	3600	360 U	2850	79	57-120	
2,4-Dinitrophenol	3600	2300 U	2050 J	57	33-120	
2,6-Dinitrotoluene	3600	360 U	3000	83	59-120	
2-Chloronaphthalene	3600	360 U	2550	71	56-120	
2-Chlorophenol	3600	360 U	2390	67	54-120	
2-Methylnaphthalene	3600	29 J	2610	72	56-120	
2-Methylphenol	3600	360 U	2470	69	53-120	
2-Nitroaniline	3600	900 U	2920	81	57-120	
2-Nitrophenol	3600	360 U	2670	74	56-120	
3,3'-Dichlorobenzidine	3600	440 U	2410	67	24-120	
3-Nitroaniline	3600	900 U	2590	72	38-120	
4,6-Dinitro-2-methylphenol	3600	2300 U	1940 J	54	48-120	
4-Bromophenyl phenyl ether	3600	360 U	2910	81	57-120	
4-Chloro-3-methylphenol	3600	360 U	2750	77	56-120	
4-Chloroaniline	3600	360 U	1750	49	15-120	
4-Chlorophenyl phenyl ether	3600	360 U	2670	74	56-120	
4-Methylphenol	7190	360 U	4830	67	54-120	
4-Nitroaniline	3600	360 U	2740	76	53-120	
4-Nitrophenol	3600	2300 U	2740	76	55-120	
Acenaphthene	3600	360 U	2570	72	57-120	
Acenaphthylene	3600	360 U	2510	70	57-120	
Anthracene	3600	32 J	2830	78	58-120	
Benzo[a]anthracene	3600	59 J	3110	85	58-120	
Benzo[a]pyrene	3600	46 J	3080	84	44-120	
Benzo[b]fluoranthene	3600	50 J	3320	91	54-120	
Benzo[g,h,i]perylene	3600	360 U	2700	75	37-120	
Benzo[k]fluoranthene	3600	360 U	3080	85	53-120	
Bis(2-chloroethoxy)methane	3600	360 U	2400	67	56-120	
Bis(2-chloroethyl)ether	3600	360 U	2310	64	52-120	
Bis(2-ethylhexyl) phthalate	3600	44 J	3160	87	56-120	
Butyl benzyl phthalate	3600	360 U	3130	87	54-120	
Carbazole	3600	360 U	2820	78	58-120	
Chrysene	3600	51 J	2880	79	57-120	
Di-n-butyl phthalate	3600	360 U	2930	81	58-120	
Di-n-octyl phthalate	3600	360 U	3990	111	48-126	
Dibenz(a,h)anthracene	3600	360 U	2790	77	39-120	
Dibenzofuran	3600	360 U	2610	72	57-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: C15404.D

Lab ID: 220-11066-12 MS Client ID: PBL-2-60-N(11') MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Diethyl phthalate	3600	360 U	2370	66	57-120	
Dimethyl phthalate	3600	360 U	2680	74	56-120	
Fluoranthene	3600	84 J	3140	85	57-120	
Fluorene	3600	24 J	2700	74	58-120	
Hexachlorobenzene	3600	360 U	2910	81	56-120	
Hexachlorobutadiene	3600	360 U	2390	66	54-120	
Hexachlorocyclopentadiene	3600	900 U	900 U	0	50-120	*
Hexachloroethane	3600	360 U	1670	46	52-120	*
Indeno[1,2,3-cd]pyrene	3600	360 U	2940	82	37-120	
Isophorone	3600	360 U	2410	67	55-120	
N-Nitrosodi-n-propylamine	3600	360 U	2400	67	54-120	
N-Nitrosodiphenylamine	3600	360 U	2910	81	59-120	
Naphthalene	3600	32 J	2450	67	55-120	
Nitrobenzene	3600	360 U	2370	66	54-120	
Pentachlorophenol	3600	900 U	2250	62	52-120	
Phenanthrene	3600	70 J	3160	86	58-120	
Phenol	3600	360 U	2250	63	51-120	
Pyrene	3600	250 J	3480	90	54-121	
2,2'-oxybis[1-chloropropane]	3600	360 U	2170	60	51-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: C15405.D

Lab ID: 220-11066-12 MSD Client ID: PBL-2-60-N(11') MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4,5-Trichlorophenol	3590	2600	72	5	40	56-120	
2,4,6-Trichlorophenol	3590	2550	71	6	40	56-120	
2,4-Dichlorophenol	3590	2400	67	6	40	54-120	
2,4-Dimethylphenol	3590	2510	70	6	40	49-120	
2,4-Dinitrotoluene	3590	2720	76	5	40	57-120	
2,4-Dinitrophenol	3590	2090 J	58	2	40	33-120	
2,6-Dinitrotoluene	3590	2840	79	5	40	59-120	
2-Chloronaphthalene	3590	2430	68	5	40	56-120	
2-Chlorophenol	3590	2250	63	6	50	54-120	
2-Methylnaphthalene	3590	2510	69	4	40	56-120	
2-Methylphenol	3590	2260	63	9	40	53-120	
2-Nitroaniline	3590	2800	78	4	40	57-120	
2-Nitrophenol	3590	2540	71	5	40	56-120	
3,3'-Dichlorobenzidine	3590	2530	70	5	40	24-120	
3-Nitroaniline	3590	2580	72	0	40	38-120	
4,6-Dinitro-2-methylphenol	3590	1950 J	54	0	40	48-120	
4-Bromophenyl phenyl ether	3590	2770	77	5	40	57-120	
4-Chloro-3-methylphenol	3590	2560	71	7	33	56-120	
4-Chloroaniline	3590	1840	51	5	40	15-120	
4-Chlorophenyl phenyl ether	3590	2560	71	4	40	56-120	
4-Methylphenol	7190	4620	64	5	40	54-120	
4-Nitroaniline	3590	2660	74	3	40	53-120	
4-Nitrophenol	3590	2650	74	3	40	55-120	
Acenaphthene	3590	2470	69	4	40	57-120	
Acenaphthylene	3590	2400	67	5	19	57-120	
Anthracene	3590	2720	75	4	40	58-120	
Benzo[a]anthracene	3590	3010	82	3	40	58-120	
Benzo[a]pyrene	3590	2990	82	3	40	44-120	
Benzo[b]fluoranthene	3590	3250	89	2	40	54-120	
Benzo[g,h,i]perylene	3590	2630	73	3	40	37-120	
Benzo[k]fluoranthene	3590	2960	83	4	40	53-120	
Bis(2-chloroethoxy)methane	3590	2280	63	5	40	56-120	
Bis(2-chloroethyl)ether	3590	2170	60	6	40	52-120	
Bis(2-ethylhexyl) phthalate	3590	3080	84	3	40	56-120	
Butyl benzyl phthalate	3590	3110	87	1	40	54-120	
Carbazole	3590	2700	75	4	40	58-120	
Chrysene	3590	2800	77	3	40	57-120	
Di-n-butyl phthalate	3590	2820	78	4	40	58-120	
Di-n-octyl phthalate	3590	3900	108	3	40	48-126	
Dibenz(a,h)anthracene	3590	2690	75	3	40	39-120	
Dibenzofuran	3590	2490	69	5	40	57-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: C15405.D

Lab ID: 220-11066-12 MSD Client ID: PBL-2-60-N(11') MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Diethyl phthalate	3590	2310	64	2	40	57-120	
Dimethyl phthalate	3590	2570	72	4	40	56-120	
Fluoranthene	3590	2770	75	12	40	57-120	
Fluorene	3590	2590	71	4	40	58-120	
Hexachlorobenzene	3590	2800	78	4	40	56-120	
Hexachlorobutadiene	3590	2270	63	5	40	54-120	
Hexachlorocyclopentadiene	3590	900 U	0	NC	40	50-120	*
Hexachloroethane	3590	1390	39	18	40	52-120	*
Indeno[1,2,3-cd]pyrene	3590	2860	80	2	40	37-120	
Isophorone	3590	2310	64	4	40	55-120	
N-Nitrosodi-n-propylamine	3590	2260	63	6	38	54-120	
N-Nitrosodiphenylamine	3590	2740	76	6	40	59-120	
Naphthalene	3590	2310	63	6	40	55-120	
Nitrobenzene	3590	2260	63	5	40	54-120	
Pentachlorophenol	3590	1980	55	12	47	52-120	
Phenanthrene	3590	2800	76	12	40	58-120	
Phenol	3590	2150	60	5	35	51-120	
Pyrene	3590	3170	81	9	36	54-121	
2,2'-oxybis[1-chloropropane]	3590	2040	57	6	40	51-120	

Calculations are performed before rounding

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: Z14567.D Lab Sample ID: MB 220-34329/1-A

Matrix: Water Date Extracted: 12/16/2009 10:10

Instrument ID: MSZ Date Analyzed: 12/21/2009 10:53

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 220-34329/2-A	Z14568.D	12/21/2009 11:20
FB-1	220-11066-14	Z14577.D	12/21/2009 15:36
FB-2	220-11066-15	Z14578.D	12/21/2009 16:04
FB-3	220-11066-16	Z14579.D	12/21/2009 16:33

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: C15358.D Lab Sample ID: MB 220-34351/1-A

Matrix: Solid Date Extracted: 12/16/2009 15:22

Instrument ID: MSC Date Analyzed: 12/21/2009 08:44

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 220-34351/2-A	C15359.D	12/21/2009 09:14
PBL-5-10-E(4')	220-11066-1	Z14580.D	12/21/2009 17:02
PBL-5-2-W(7')	220-11066-2	Z14581.D	12/21/2009 17:30
PBL-5-5-N(6')	220-11066-3	Z14582.D	12/21/2009 17:58
PBL-5-10-N(5')	220-11066-4	Z14583.D	12/21/2009 18:26
PBL-5-10-S(2')	220-11066-5	Z14584.D	12/21/2009 18:55
PBL-1-30-E(9') F.D.	220-11066-7	C15398.D	12/22/2009 15:42
PBL-2-60-E(4')	220-11066-8	C15399.D	12/22/2009 16:13
PBL-2-60-E(4') F.D.	220-11066-9	C15400.D	12/22/2009 16:43
PBL-2-30-N(10')	220-11066-10	C15401.D	12/22/2009 17:14
PBL-2-30-N(10') F.D.	220-11066-11	C15402.D	12/22/2009 17:44
PBL-2-60-N(11')	220-11066-12	C15403.D	12/22/2009 18:15
PBL-2-60-N(11') MS	220-11066-12 MS	C15404.D	12/22/2009 18:45
PBL-2-60-N(11') MSD	220-11066-12 MSD	C15405.D	12/22/2009 19:15

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: C15386.D Lab Sample ID: MB 220-34355/1-A

Matrix: Solid Date Extracted: 12/16/2009 16:43

Instrument ID: MSC Date Analyzed: 12/22/2009 09:28

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 220-34355/2-A	C15387.D	12/22/2009 09:59
PBL-8-60-S(12')	220-11066-13	C15397.D	12/22/2009 15:11

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: A9262.D Lab Sample ID: MB 220-34526/1-A

Matrix: Solid Date Extracted: 12/22/2009 10:17

Instrument ID: MSA Date Analyzed: 12/23/2009 08:21

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 220-34526/2-A	A9263.D	12/23/2009 08:50
PBL-1-30-E(9')	220-11066-6	A9267.D	12/23/2009 10:44

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: As9212.D DFTPP Injection Date: 12/21/2009

Instrument ID: MSA DFTPP Injection Time: 13:16

Analysis Batch No.: 34520

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	45.1	
68	Less than 2.0 % of mass 69	0.7	(1.4)1
69	Mass 69 relative abundance	49.3	
70	Less than 2.0 % of mass 69	0.2	(0.4)1
127	40.0 - 60.0 % of mass 198	52.9	
197	Less than 1.0 % of mass 198	0.4	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	21.1	
365	Greater than 1.0 % of mass 198	2.3	
441	Present but less than mass 443	9.0	
442	Greater than 40.0 % of mass 198	60.6	
443	17.0 - 23.0 % of mass 442	11.5	(19.0)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 220-34520/1	A9212.D	12/21/2009	13:16
	IC 220-34520/2	A9213.D	12/21/2009	13:44
	IC 220-34520/3	A9215.D	12/21/2009	14:42
	IC 220-34520/5	A9216.D	12/21/2009	15:10
	IC 220-34520/6	A9217.D	12/21/2009	15:38
	IC 220-34520/7	A9218.D	12/21/2009	16:07

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: As9261.D DFTPP Injection Date: 12/23/2009

Instrument ID: MSA DFTPP Injection Time: 07:50

Analysis Batch No.: 34589

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	38.5	
68	Less than 2.0 % of mass 69	0.6	(1.4)1
69	Mass 69 relative abundance	42.5	
70	Less than 2.0 % of mass 69	0.1	(0.2)1
127	40.0 - 60.0 % of mass 198	48.9	
197	Less than 1.0 % of mass 198	0.1	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	22.0	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	9.8	
442	Greater than 40.0 % of mass 198	68.6	
443	17.0 - 23.0 % of mass 442	13.2	(19.2)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 220-34589/1	A9261.D	12/23/2009	07:50
	MB 220-34526/1-A	A9262.D	12/23/2009	08:21
	LCS 220-34526/2-A	A9263.D	12/23/2009	08:50
PBL-1-30-E(9')	220-11066-6	A9267.D	12/23/2009	10:44

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: Cs15331.D DFTPP Injection Date: 12/18/2009

Instrument ID: MSC DFTPP Injection Time: 14:30

Analysis Batch No.: 34464

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	41.0	
68	Less than 2.0 % of mass 69	0.5	(1.3)1
69	Mass 69 relative abundance	38.9	
70	Less than 2.0 % of mass 69	0.1	(0.3)1
127	40.0 - 60.0 % of mass 198	49.8	
197	Less than 1.0 % of mass 198	0.1	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	24.7	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	12.1	
442	Greater than 40.0 % of mass 198	83.4	
443	17.0 - 23.0 % of mass 442	16.0	(19.1)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 220-34464/1	C15331.D	12/18/2009	14:30
	IC 220-34464/2	C15332.D	12/18/2009	15:01
	IC 220-34464/3	C15333.D	12/18/2009	15:31
	IC 220-34464/5	C15334.D	12/18/2009	16:01
	IC 220-34464/6	C15335.D	12/18/2009	16:31
	IC 220-34464/7	C15336.D	12/18/2009	17:02

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: Cs15357.D DFTPP Injection Date: 12/21/2009

Instrument ID: MSC DFTPP Injection Time: 08:12

Analysis Batch No.: 34490

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	38.3	
68	Less than 2.0 % of mass 69	0.6	(1.5)1
69	Mass 69 relative abundance	37.3	
70	Less than 2.0 % of mass 69	0.1	(0.3)1
127	40.0 - 60.0 % of mass 198	47.2	
197	Less than 1.0 % of mass 198	0.3	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	25.3	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	12.6	
442	Greater than 40.0 % of mass 198	86.5	
443	17.0 - 23.0 % of mass 442	17.2	(19.9)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 220-34490/1	C15357.D	12/21/2009	08:12
	MB 220-34351/1-A	C15358.D	12/21/2009	08:44
	LCS 220-34351/2-A	C15359.D	12/21/2009	09:14

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: Cs15383.D DFTPP Injection Date: 12/22/2009

Instrument ID: MSC DFTPP Injection Time: 07:51

Analysis Batch No.: 34531

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	39.9	
68	Less than 2.0 % of mass 69	0.5	(1.4)1
69	Mass 69 relative abundance	38.5	
70	Less than 2.0 % of mass 69	0.2	(0.4)1
127	40.0 - 60.0 % of mass 198	48.3	
197	Less than 1.0 % of mass 198	0.6	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.4	
275	10.0 - 30.0 % of mass 198	24.5	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	11.2	
442	Greater than 40.0 % of mass 198	79.6	
443	17.0 - 23.0 % of mass 442	15.4	(19.4)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 220-34531/1	C15383.D	12/22/2009	07:51
	MB 220-34355/1-A	C15386.D	12/22/2009	09:28
	LCS 220-34355/2-A	C15387.D	12/22/2009	09:59
PBL-8-60-S(12')	220-11066-13	C15397.D	12/22/2009	15:11
PBL-1-30-E(9') F.D.	220-11066-7	C15398.D	12/22/2009	15:42
PBL-2-60-E(4')	220-11066-8	C15399.D	12/22/2009	16:13
PBL-2-60-E(4') F.D.	220-11066-9	C15400.D	12/22/2009	16:43
PBL-2-30-N(10')	220-11066-10	C15401.D	12/22/2009	17:14
PBL-2-30-N(10') F.D.	220-11066-11	C15402.D	12/22/2009	17:44
PBL-2-60-N(11')	220-11066-12	C15403.D	12/22/2009	18:15
PBL-2-60-N(11') MS	220-11066-12 MS	C15404.D	12/22/2009	18:45
PBL-2-60-N(11') MSD	220-11066-12 MSD	C15405.D	12/22/2009	19:15

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab File ID: Zs14560.D DFTPP Injection Date: 12/21/2009

Instrument ID: MSZ DFTPP Injection Time: 07:33

Analysis Batch No.: 34488

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	30.7	
68	Less than 2.0 % of mass 69	0.5	(1.4)1
69	Mass 69 relative abundance	35.5	
70	Less than 2.0 % of mass 69	0.0	(0.1)1
127	40.0 - 60.0 % of mass 198	50.3	
197	Less than 1.0 % of mass 198	0.6	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.6	
275	10.0 - 30.0 % of mass 198	24.4	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	8.8	
442	Greater than 40.0 % of mass 198	56.8	
443	17.0 - 23.0 % of mass 442	11.3	(20.0)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 220-34488/1	Z14560.D	12/21/2009	07:33
	IC 220-34488/2	Z14561.D	12/21/2009	08:01
	IC 220-34488/3	Z14562.D	12/21/2009	08:30
	IC 220-34488/4	Z14563.D	12/21/2009	08:58
	IC 220-34488/5	Z14564.D	12/21/2009	09:26
	IC 220-34488/6	Z14565.D	12/21/2009	09:54
	MB 220-34329/1-A	Z14567.D	12/21/2009	10:53
	LCS 220-34329/2-A	Z14568.D	12/21/2009	11:20
FB-1	220-11066-14	Z14577.D	12/21/2009	15:36
FB-2	220-11066-15	Z14578.D	12/21/2009	16:04
FB-3	220-11066-16	Z14579.D	12/21/2009	16:33
PBL-5-10-E(4')	220-11066-1	Z14580.D	12/21/2009	17:02
PBL-5-2-W(7')	220-11066-2	Z14581.D	12/21/2009	17:30
PBL-5-5-N(6')	220-11066-3	Z14582.D	12/21/2009	17:58
PBL-5-10-N(5')	220-11066-4	Z14583.D	12/21/2009	18:26
PBL-5-10-S(2')	220-11066-5	Z14584.D	12/21/2009	18:55

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34589/1 Date Analyzed: 12/23/2009 07:50

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): A9261.D Heated Purge: (Y/N) N

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		284663	4.79	1364747	6.15	968183	8.02
UPPER LIMIT		569326	5.29	2729494	6.65	1936366	8.52
LOWER LIMIT		142332	4.29	682374	5.65	484092	7.52
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 220-34526/1-A		313502	4.80	1471071	6.15	1070629	8.01
LCS 220-34526/2-A		322075	4.80	1535666	6.15	1105848	8.02
220-11066-6	PBL-1-30-E(9')	300850	4.79	1412356	6.15	997522	8.01

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34589/1 Date Analyzed: 12/23/2009 07:50

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): A9261.D Heated Purge: (Y/N) N

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1783531	9.58	1979628	12.46	1477998	14.62
UPPER LIMIT		3567062	10.08	3959256	12.96	2955996	15.12
LOWER LIMIT		891766	9.08	989814	11.96	738999	14.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 220-34526/1-A		1951813	9.58	2381669	12.45	1918302	14.61
LCS 220-34526/2-A		2035953	9.58	2329976	12.46	1879549	14.62
220-11066-6	PBL-1-30-E(9')	1870904	9.58	1973500	12.46	1048799	14.60

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34490/1 Date Analyzed: 12/21/2009 08:12

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C15357.D Heated Purge: (Y/N) N

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		305882	5.05	1511566	6.43	1084647	8.31
UPPER LIMIT		611764	5.55	3023132	6.93	2169294	8.81
LOWER LIMIT		152941	4.55	755783	5.93	542324	7.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 220-34351/1-A		307586	5.05	1495844	6.42	1126751	8.30
LCS 220-34351/2-A		296957	5.05	1449188	6.42	1082202	8.31

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34490/1 Date Analyzed: 12/21/2009 08:12

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C15357.D Heated Purge: (Y/N) N

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1903171	9.89	2084310	12.86	1631551	15.21
UPPER LIMIT		3806342	10.39	4168620	13.36	3263102	15.71
LOWER LIMIT		951586	9.39	1042155	12.36	815776	14.71
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 220-34351/1-A		2003470	9.89	2381688	12.85	1811528	15.20
LCS 220-34351/2-A		1959124	9.89	2256899	12.86	1718713	15.20

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34531/1 Date Analyzed: 12/22/2009 07:51

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C15383.D Heated Purge: (Y/N) N

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		256849	5.02	1255588	6.40	943164	8.27
UPPER LIMIT		513698	5.52	2511176	6.90	1886328	8.77
LOWER LIMIT		128425	4.52	627794	5.90	471582	7.77
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 220-34355/1-A		271392	5.02	1325900	6.39	1014187	8.27
LCS 220-34355/2-A		252086	5.02	1256179	6.39	951492	8.27
220-11066-13	PBL-8-60-S(12')	272843	5.03	1329617	6.40	976837	8.27
220-11066-7	PBL-1-30-E(9') F.D.	268123	5.02	1311513	6.40	970343	8.27
220-11066-8	PBL-2-60-E(4')	428421	5.03	2076436	6.40	1529521	8.28
220-11066-9	PBL-2-60-E(4') F.D.	404967	5.03	1929669	6.40	1422135	8.28
220-11066-10	PBL-2-30-N(10')	438901	5.03	2071193	6.40	1486887	8.28
220-11066-11	PBL-2-30-N(10') F.D.	294435	5.02	1419514	6.39	1021333	8.27
220-11066-12	PBL-2-60-N(11')	295683	5.03	1429679	6.40	1050514	8.27
220-11066-12 MS	PBL-2-60-N(11') MS	298088	5.03	1444701	6.40	1072320	8.28
220-11066-12 MSD	PBL-2-60-N(11') MSD	293817	5.03	1409667	6.40	1053329	8.28

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: CCVIS 220-34531/1 Date Analyzed: 12/22/2009 07:51

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C15383.D Heated Purge: (Y/N) N

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1654184	9.85	1942788	12.81	1483134	15.13
UPPER LIMIT		3308368	10.35	3885576	13.31	2966268	15.63
LOWER LIMIT		827092	9.35	971394	12.31	741567	14.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 220-34355/1-A		1816896	9.85	2132343	12.80	1598431	15.12
LCS 220-34355/2-A		1699067	9.85	1926167	12.81	1430787	15.12
220-11066-13	PBL-8-60-S(12')	1652402	9.86	1742993	12.81	1066052	15.14
220-11066-7	PBL-1-30-E(9') F.D.	1675041	9.86	1841929	12.81	1207338	15.13
220-11066-8	PBL-2-60-E(4')	2612785	9.86	2743592	12.81	1516217	15.14
220-11066-9	PBL-2-60-E(4') F.D.	2411137	9.86	2515479	12.81	1372013	15.14
220-11066-10	PBL-2-30-N(10')	2410399	9.86	2673233	12.82	1529178	15.14
220-11066-11	PBL-2-30-N(10') F.D.	1699569	9.86	1792873	12.81	1070447	15.13
220-11066-12	PBL-2-60-N(11')	1762460	9.86	1850740	12.81	1133423	15.13
220-11066-12 MS	PBL-2-60-N(11') MS	1783412	9.86	1818644	12.81	1156272	15.14
220-11066-12 MSD	PBL-2-60-N(11') MSD	1757441	9.86	1737665	12.81	1094129	15.14

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: ICIS 220-34488/1 Date Analyzed: 12/21/2009 07:33

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm)

Lab File ID (Standard): Z14560.D Heated Purge: (Y/N) N

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		522749	5.09	2340710	6.46	1482582	8.34
UPPER LIMIT		1045498	5.59	4681420	6.96	2965164	8.84
LOWER LIMIT		261375	4.59	1170355	5.96	741291	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 220-34329/1-A		528499	5.09	2371335	6.46	1501735	8.33
LCS 220-34329/2-A		489380	5.09	2186574	6.46	1355036	8.34
220-11066-14	FB-1	521196	5.09	2307412	6.45	1463453	8.33
220-11066-15	FB-2	531088	5.08	2411420	6.45	1548280	8.33
220-11066-16	FB-3	522485	5.09	2372995	6.46	1527285	8.33
220-11066-1	PBL-5-10-E(4')	780342	5.09	3453019	6.46	2129580	8.34
220-11066-2	PBL-5-2-W(7')	738122	5.09	3267506	6.46	2035745	8.34
220-11066-3	PBL-5-5-N(6')	817228	5.09	3720217	6.46	2360742	8.34
220-11066-4	PBL-5-10-N(5')	864121	5.09	3813749	6.46	2390350	8.33
220-11066-5	PBL-5-10-S(2')	505363	5.10	1734211	6.46	1428288	8.33

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

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

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Sample No.: ICIS 220-34488/1 Date Analyzed: 12/21/2009 07:33

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm)

Lab File ID (Standard): Z14560.D Heated Purge: (Y/N) N

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2573169	9.92	2277561	12.90	1150184	15.26
UPPER LIMIT		5146338	10.42	4555122	13.40	2300368	15.76
LOWER LIMIT		1286585	9.42	1138781	12.40	575092	14.76
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 220-34329/1-A		2556288	9.92	2063310	12.89	1150080	15.24
LCS 220-34329/2-A		2263500	9.92	2016649	12.90	1145414	15.25
220-11066-14	FB-1	2387952	9.92	1889248	12.89	880874	15.24
220-11066-15	FB-2	2550121	9.92	1930458	12.89	899572	15.24
220-11066-16	FB-3	2501506	9.92	1894592	12.89	894925	15.24
220-11066-1	PBL-5-10-E(4')	3857122	9.92	2400861	12.90	1219050	15.26
220-11066-2	PBL-5-2-W(7')	3572745	9.92	2238232	12.90	1027342	15.25
220-11066-3	PBL-5-5-N(6')	4022907	9.92	2931300	12.89	1204881	15.24
220-11066-4	PBL-5-10-N(5')	3988657	9.92	3018585	12.89	1244427	15.24
220-11066-5	PBL-5-10-S(2')	2389622	9.92	1606442	12.89	697176	15.24

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

	IDL ug/L	Quantitation Limit ug/L
Pyridine	1.9403	20
N-Nitosodimethylamine	4.5428	10
Cyclohexanone	2.6895	10
Benzaldehyde	0.5739	10
Phenol	0.1518	10
Aniline	1.0944	10
Bis (2-Chloroethyl) ether	0.3893	10
2-Chlorophenol	0.3821	10
1,3-Dichlorobenzene	1.0908	10
1,4 Dichlorobenzene	1.6478	10
Benzyl Alcohol	2.0578	10
1,2 Dichlorobenzene	1.0794	10
2,2'-oxybis (1-Chloropropane)	0.7942	10
2-Methylphenol	1.2419	10
Acetophenone	1.2790	10
Hexachloroethane	1.9539	10
N-Nitroso-di-n-propylamine	0.9678	10
4-Methylphenol	0.9021	10
Nitrobenzene	0.3819	10
Isophorone	0.2462	10
2-Nitrophenol	0.3726	10
2,4-Dimethylphenol	1.7086	10
Benzoic Acid	0.7161	25
Bis (2-Chloroehoxy) methane	0.3260	10
2,4-Dichlorophenol	1.5006	10
1,2,4-Trichlorobenzene	0.6569	10
Naphthalene	0.0807	10
4-Chloroaniline	0.6261	10
Hexachlorobutadiene	0.3681	10
Caprolactam	0.3661	10
4-Chloro-3-methylphenol	0.7607	10
2-Methylnaphthalene	0.9786	10
2,4,5-Trichlorotoluene	0.6849	10
Hexachlorocyclopentadiene	0.5329	10
2,4,6-Trichlorophenol	0.5782	10
2,4,5-Trichlorophenol	0.7535	25
1,1'-Biphenyl	0.3378	10
2-Chloronaphthalene	0.6780	10
2-Nitroaniline	1.1021	10
Acenaphthylene	0.8291	10
Dimethylphthalate	0.5381	10
2,6-Dinitrotoluene	0.3099	10
Acenaphthene	0.7558	10
3-Nitroaniline	1.1735	10
2,4-Dinitrophenol	1.4399	25
Dibenzofuran	0.7729	10
2,4-Dinitrotoluene	1.2627	10
4-Nitrophenol	2.7099	25
Fluorene	1.0618	10
4-Chlorophenyl-phenylether	0.5826	10
Diethylphthalate	0.6482	10
4-Nitroaniline	0.9952	10
4,6-Dinitro-2-methylphenol	3.6512	25
N-Nitrosodiphenylamine	0.5761	10
1,2-Diphenylhydrazine	1.0088	10
4-Bromophenyl-phenylether	1.4075	10
Atrazine	0.9729	10
Hexachlorobenzene	0.4823	10
Pentachlorophenol	1.6952	25
Phenanthrene	0.9850	10
Carbazole	0.3373	10
Anthracene	0.5124	10
Di-n-butylphthalate	0.4027	10
Fluoranthene	0.4598	10
Benzidine	0.3787	10
Pyrene	0.4410	10
Butylbenzylphthalate	0.8883	10
3,3'-Dimethylbenzidine	0.8110	10
3,3'-Dichlorobenzidine	1.0900	10
Benzo (a) anthracene	0.4936	10
Chrysene	0.6218	10
Bis (2-Ethylhexyl) phthalate	0.6249	10
Di-n-octylphthalate	1.7993	10
Benzo(b)fluoranthene	0.2398	10
Benzo(k)fluoranthene	0.9837	10
Benzo(a)pyrene	0.1082	10
Indeno(1,2,3-cd)pyrene	0.4269	10
Dibenz(a,h)anthracene	0.0040	10
Benzo(g,h,i)perylene	1.1170	10

Instrument detection limits are based on a 1000ml Initial Volume and 1ml Final Volume

	IDL ug/L	Quantitation Limit ug/L
Pyridine	1.0906	20
N-Nitosodimethylamine	0.4268	10
Cyclohexanone	1.9785	10
Benzaldehyde	0.5368	10
Phenol	0.9308	10
Aniline	0.4212	10
Bis (2-Chloroethyl) ether	1.2958	10
2-Chlorophenol	0.4322	10
1,3-Dichlorobenzene	0.0664	10
1,4 Dichlorobenzene	0.5912	10
Benzyl Alcohol	1.7206	10
1,2 Dichlorobenzene	0.9636	10
2,2'-oxybis (1-Chloropropane)	0.9338	10
2-Methylphenol	1.2114	10
Acetophenone	0.7535	10
Hexachloroethane	0.2239	10
N-Nitroso-di-n-propylamine	0.2054	10
4-Methylphenol	1.0918	10
Nitrobenzene	0.3229	10
Isophorone	0.8977	10
2-Nitrophenol	0.5199	10
2,4-Dimethylphenol	0.6301	10
Benzoic Acid	4.1823	25
Bis (2-Chloroehoxy) methane	0.7345	10
2,4-Dichlorophenol	0.2555	10
1,2,4-Trichlorobenzene	0.6987	10
Naphthalene	0.3904	10
4-Chloroaniline	0.5863	10
Hexachlorobutadiene	0.2127	10
Caprolactam	0.8239	10
4-Chloro-3-methylphenol	0.7359	10
2-Methylnaphthalene	0.4142	10
2,4,5-Trichlorotoluene	0.5225	10
Hexachlorocyclopentadiene	0.0911	10
2,4,6-Trichlorophenol	0.6864	10
2,4,5-Trichlorophenol	1.2227	25
1,1'-Biphenyl	0.3279	10
2-Chloronaphthalene	0.1501	10
2-Nitroaniline	0.0813	10
Acenaphthylene	0.5107	10
Dimethylphthalate	0.5556	10
2,6-Dinitrotoluene	0.4768	10
Acenaphthene	0.7722	10
3-Nitroaniline	0.6375	10
2,4-Dinitrophenol	1.6072	25
Dibenzofuran	0.6616	10
2,4-Dinitrotoluene	0.9521	10
4-Nitrophenol	1.8634	25
Fluorene	0.7942	10
4-Chlorophenyl-phenylether	0.9079	10
Diethylphthalate	0.4042	10
4-Nitroaniline	1.4681	10
4,6-Dinitro-2-methylphenol	1.4120	25
N-Nitrosodiphenylamine	0.2198	10
1,2-Diphenylhydrazine	0.1026	10
4-Bromophenyl-phenylether	0.8220	10
Atrazine	0.6111	10
Hexachlorobenzene	0.3391	10
Pentachlorophenol	0.9685	25
Phenanthrene	0.9589	10
Carbazole	0.5434	10
Anthracene	1.3172	10
Di-n-butylphthalate	0.9281	10
Fluoranthene	0.9597	10
Benzidine	0.2822	10
Pyrene	0.7341	10
Butylbenzylphthalate	0.4323	10
3,3'-Dimethylbenzidine	0.1578	10
3,3'-Dichlorobenzidine	0.8978	10
Benzo (a) anthracene	0.8365	10
Chrysene	0.8686	10
Bis (2-Ethylhexyl) phthalate	0.3961	10
Di-n-octylphthalate	0.6005	10
Benzo(b)fluoranthene	0.7114	10
Benzo(k)fluoranthene	0.8075	10
Benzo(a)pyrene	0.1201	10
Indeno(1,2,3-cd)pyrene	1.3582	10
Dibenz(a,h)anthracene	1.1218	10
Benzo(g,h,i)perylene	0.9870	10

Instrument detection limits are based on a 1000ml Initial Volume and 1ml Final Volume

	IDL ug/L	Quantitation Limit ug/L
Pyridine	3.4754	20
N-Nitosodimethylamine	1.5424	10
Cyclohexanone	1.9642	10
Benzaldehyde	1.1542	10
Phenol	1.2591	10
Aniline	0.6269	10
Bis (2-Chloroethyl) ether	3.2062	10
2-Chlorophenol	0.3062	10
1,3-Dichlorobenzene	0.3309	10
1,4 Dichlorobenzene	1.1610	10
Benzyl Alcohol	2.5242	10
1,2 Dichlorobenzene	1.8441	10
2,2'-oxybis (1-Chloropropane)	0.9498	10
2-Methylphenol	3.0102	10
Acetophenone	1.0913	10
Hexachloroethane	0.3154	10
N-Nitroso-di-n-propylamine	0.3300	10
4-Methylphenol	1.1493	10
Nitrobenzene	1.5661	10
Isophorone	1.1110	10
2-Nitrophenol	1.2763	10
2,4-Dimethylphenol	1.6029	10
Benzoic Acid	2.5570	25
Bis (2-Chloroehoxy) methane	2.0407	10
2,4-Dichlorophenol	0.7471	10
1,2,4-Trichlorobenzene	1.1373	10
Naphthalene	1.3290	10
4-Chloroaniline	0.7637	10
Hexachlorobutadiene	1.2138	10
Caprolactam	0.6868	10
4-Chloro-3-methylphenol	0.6893	10
2-Methylnaphthalene	1.0875	10
2,4,5-Trichlorotoluene	0.3149	10
Hexachlorocyclopentadiene	1.4690	10
2,4,6-Trichlorophenol	0.7127	10
2,4,5-Trichlorophenol	7.9656	25
1,1'-Biphenyl	1.0084	10
2-Chloronaphthalene	1.4604	10
2-Nitroaniline	1.1434	10
Acenaphthylene	0.8886	10
Dimethylphthalate	1.2597	10
2,6-Dinitrotoluene	1.3281	10
Acenaphthene	1.4022	10
3-Nitroaniline	1.2335	10
2,4-Dinitrophenol	2.4308	25
Dibenzofuran	1.2566	10
2,4-Dinitrotoluene	1.1929	10
4-Nitrophenol	3.2475	25
Fluorene	0.4964	10
4-Chlorophenyl-phenylether	1.1875	10
Diethylphthalate	1.0315	10
4-Nitroaniline	1.6543	10
4,6-Dinitro-2-methylphenol	2.8793	25
N-Nitrosodiphenylamine	1.3813	10
1,2-Diphenylhydrazine	0.6376	10
4-Bromophenyl-phenylether	0.7615	10
Atrazine	1.4165	10
Hexachlorobenzene	1.5265	10
Pentachlorophenol	3.5592	25
Phenanthrene	1.0570	10
Carbazole	1.0983	10
Anthracene	0.8888	10
Di-n-butylphthalate	2.3946	10
Fluoranthene	1.4050	10
Benzidine	1.6350	10
Pyrene	0.7312	10
Butylbenzylphthalate	0.8985	10
3,3'-Dimethylbenzidine	1.4845	10
3,3'-Dichlorobenzidine	1.7782	10
Benzo (a) anthracene	1.3007	10
Chrysene	0.4512	10
Bis (2-Ethylhexyl) phthalate	1.6387	10
Di-n-octylphthalate	1.2369	10
Benzo(b)fluoranthene	1.3851	10
Benzo(k)fluoranthene	2.1835	10
Benzo(a)pyrene	1.2270	10
Indeno(1,2,3-cd)pyrene	0.7169	10
Dibenz(a,h)anthracene	1.5166	10
Benzo(g,h,i)perylene	1.5100	10

Instrument detection limits are based on a 1000ml Initial Volume and 1ml Final Volume

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-E(4') | Lab Sample ID: 220-11066-1

Matrix: Solid | Lab File ID: Z14580.D

Analysis Method: 8270C | Date Collected: 12/14/2009 10:05

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.26(g) | Date Analyzed: 12/21/2009 17:02

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	330	U	330	21
95-95-4	2,4,5-Trichlorophenol	2100	U	2100	16
88-06-2	2,4,6-Trichlorophenol	330	U	330	9.0
120-83-2	2,4-Dichlorophenol	330	U	330	17
105-67-9	2,4-Dimethylphenol	330	U	330	16
121-14-2	2,4-Dinitrotoluene	330	U	330	26
51-28-5	2,4-Dinitrophenol	2100	U	2100	98
606-20-2	2,6-Dinitrotoluene	330	U	330	9.6
91-58-7	2-Chloronaphthalene	330	U	330	14
95-57-8	2-Chlorophenol	330	U	330	19
91-57-6	2-Methylnaphthalene	48	J	330	9.3
95-48-7	2-Methylphenol	330	U	330	20
88-74-4	2-Nitroaniline	810	U	810	20
88-75-5	2-Nitrophenol	330	U	330	21
91-94-1	3,3'-Dichlorobenzidine	400	U	400	67
99-09-2	3-Nitroaniline	810	U	810	10
534-52-1	4,6-Dinitro-2-methylphenol	2100	U	2100	140
101-55-3	4-Bromophenyl phenyl ether	330	U	330	21
59-50-7	4-Chloro-3-methylphenol	330	U	330	13
106-47-8	4-Chloroaniline	330	U	330	53
7005-72-3	4-Chlorophenyl phenyl ether	330	U	330	24
106-44-5	4-Methylphenol	330	U	330	21
100-01-6	4-Nitroaniline	330	U	330	25
100-02-7	4-Nitrophenol	2100	U	2100	25
83-32-9	Acenaphthene	81	J	330	19
208-96-8	Acenaphthylene	17	J	330	16
98-86-2	Acetophenone	330	U	330	17
120-12-7	Anthracene	290	J	330	13
1912-24-9	Atrazine	400	U	400	21
100-52-7	Benzaldehyde	330	U	330	55
56-55-3	Benzo[a]anthracene	2000		330	12
50-32-8	Benzo[a]pyrene	2500		330	8.8
205-99-2	Benzo[b]fluoranthene	2500		330	8.7
191-24-2	Benzo[g,h,i]perylene	2000		330	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-E(4') | Lab Sample ID: 220-11066-1

Matrix: Solid | Lab File ID: Z14580.D

Analysis Method: 8270C | Date Collected: 12/14/2009 10:05

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.26(g) | Date Analyzed: 12/21/2009 17:02

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	1000		330	29
111-91-1	Bis(2-chloroethoxy)methane	330	U	330	15
111-44-4	Bis(2-chloroethyl)ether	330	U	330	17
117-81-7	Bis(2-ethylhexyl) phthalate	230	J B	330	32
85-68-7	Butyl benzyl phthalate	330	U	330	18
105-60-2	Caprolactam	330	U	330	26
86-74-8	Carbazole	110	J	330	18
218-01-9	Chrysene	2000		330	24
84-74-2	Di-n-butyl phthalate	330	U	330	47
117-84-0	Di-n-octyl phthalate	330	U	330	19
53-70-3	Dibenz(a,h)anthracene	580		330	26
132-64-9	Dibenzofuran	61	J	330	23
84-66-2	Diethyl phthalate	330	U	330	33
131-11-3	Dimethyl phthalate	330	U	330	19
206-44-0	Fluoranthene	2500		330	16
86-73-7	Fluorene	82	J	330	20
118-74-1	Hexachlorobenzene	330	U	330	23
87-68-3	Hexachlorobutadiene	330	U	330	25
77-47-4	Hexachlorocyclopentadiene	810	U	810	150
67-72-1	Hexachloroethane	330	U	330	19
193-39-5	Indeno[1,2,3-cd]pyrene	2400		330	21
78-59-1	Isophorone	330	U	330	18
621-64-7	N-Nitrosodi-n-propylamine	330	U	330	22
86-30-6	N-Nitrosodiphenylamine	330	U	330	18
91-20-3	Naphthalene	61	J	330	17
98-95-3	Nitrobenzene	330	U	330	21
87-86-5	Pentachlorophenol	810	U	810	200
85-01-8	Phenanthrene	930		330	16
108-95-2	Phenol	330	U	330	22
129-00-0	Pyrene	3200		330	15
108-60-1	2,2'-oxybis[1-chloropropane]	330	U	330	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-E(4') | Lab Sample ID: 220-11066-1

Matrix: Solid | Lab File ID: Z14580.D

Analysis Method: 8270C | Date Collected: 12/14/2009 10:05

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.26(g) | Date Analyzed: 12/21/2009 17:02

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	52	37-120	
321-60-8	2-Fluorobiphenyl	54	41-120	
367-12-4	2-Fluorophenol	49	34-120	
4165-60-0	Nitrobenzene-d5	52	38-120	
4165-62-2	Phenol-d5	52	36-120	
1718-51-0	Terphenyl-d14	81	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14580.D
Lab Smp Id: 220-11066-A-1-A Client Smp ID: PBL-5-10-E(4')
Inj Date : 21-DEC-2009 17:02
Operator : S.Jonas Inst ID: msz.i
Smp Info : 220-11066-A-1-A
Misc Info : 220-11066-A-1-A
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.260	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	18.860	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.086	5.087	(1.000)	780342	20.0000	
$	2 2-Fluorophenol	112	3.657	3.634	(0.719)	1704019	36.6941	3000
$	3 Phenol-d5	99	4.739	4.734	(0.932)	2413308	39.2309	3200
*	20 Naphthalene-d8	136	6.457	6.457	(1.000)	3453019	20.0000	
$	21 Nitrobenzene-d5	82	5.686	5.693	(0.881)	1492580	26.0896	2100
	26 Benzoic Acid	122	6.174	6.281	(0.956)	9314	6.30087	510(H)
	30 Naphthalene	128	6.474	6.481	(1.003)	132237	0.75782	61
	34 2-Methylnaphthalene	142	7.221	7.228	(1.118)	68068	0.59193	48
*	35 Acenaphthene-d10	164	8.339	8.339	(1.000)	2129580	20.0000	
$	40 2-Fluorobiphenyl	172	7.627	7.634	(0.915)	3489894	26.8653	2200
	43 Acenaphthylene	152	8.180	8.186	(0.981)	41367	0.21531	17
	46 Acenaphthene	153	8.368	8.375	(1.004)	117787	1.00273	81
	49 Dibenzofuran	168	8.551	8.563	(1.025)	127670	0.75340	61
	52 Fluorene	166	8.921	8.928	(1.070)	130899	1.00947	82
$	56 2,4,6-Tribromophenol	330	9.180	9.186	(1.101)	716518	38.7295	3100
*	57 Phenanthrene-d10	188	9.921	9.922	(1.000)	3857122	20.0000	
	64 Phenanthrene	178	9.945	9.951	(1.002)	2279564	11.4786	930
	65 Carbazole	167	10.168	10.180	(1.025)	263405	1.37310	110

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
	66 Anthracene	178	9.998	10.004	(1.008)	729969	3.59928	290
	68 Fluoranthene	202	11.221	11.222	(1.131)	6725654	31.1936	2500
*	70 Chrysene-d12	240	12.903	12.904	(1.000)	2400861	20.0000	
	72 Pyrene	202	11.462	11.463	(0.888)	6316770	39.8250	3200
$	73 Terphenyl-d14	244	11.633	11.633	(0.902)	4072616	40.6717	3300
	76 Benzo(a)anthracene	228	12.886	12.886	(0.999)	3261373	24.4720	2000
	77 Chrysene	228	12.939	12.939	(1.003)	3184221	25.3170	2000
	78 Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.002)	204944	2.90763	230
*	79 Perylene-d12	264	15.256	15.257	(1.000)	1219050	20.0000	
	81 Benzo(b)fluoranthene	252	14.568	14.568	(0.955)	3172122	30.9783	2500(H)
	82 Benzo(k)fluoranthene	252	14.609	14.615	(0.958)	1271635	12.5420	1000
	83 Benzo(a)pyrene	252	15.150	15.151	(0.993)	2236719	30.8575	2500
	84 Indeno(1,2,3-cd)pyrene	276	17.391	17.386	(1.140)	1402734	29.7522	2400
	85 Dibenzo(a,h)anthracene	278	17.432	17.445	(1.143)	358069	7.16796	580
	86 Benzo(g,h,i)perylene	276	17.944	17.945	(1.176)	1225561	24.7886	2000

QC Flag Legend

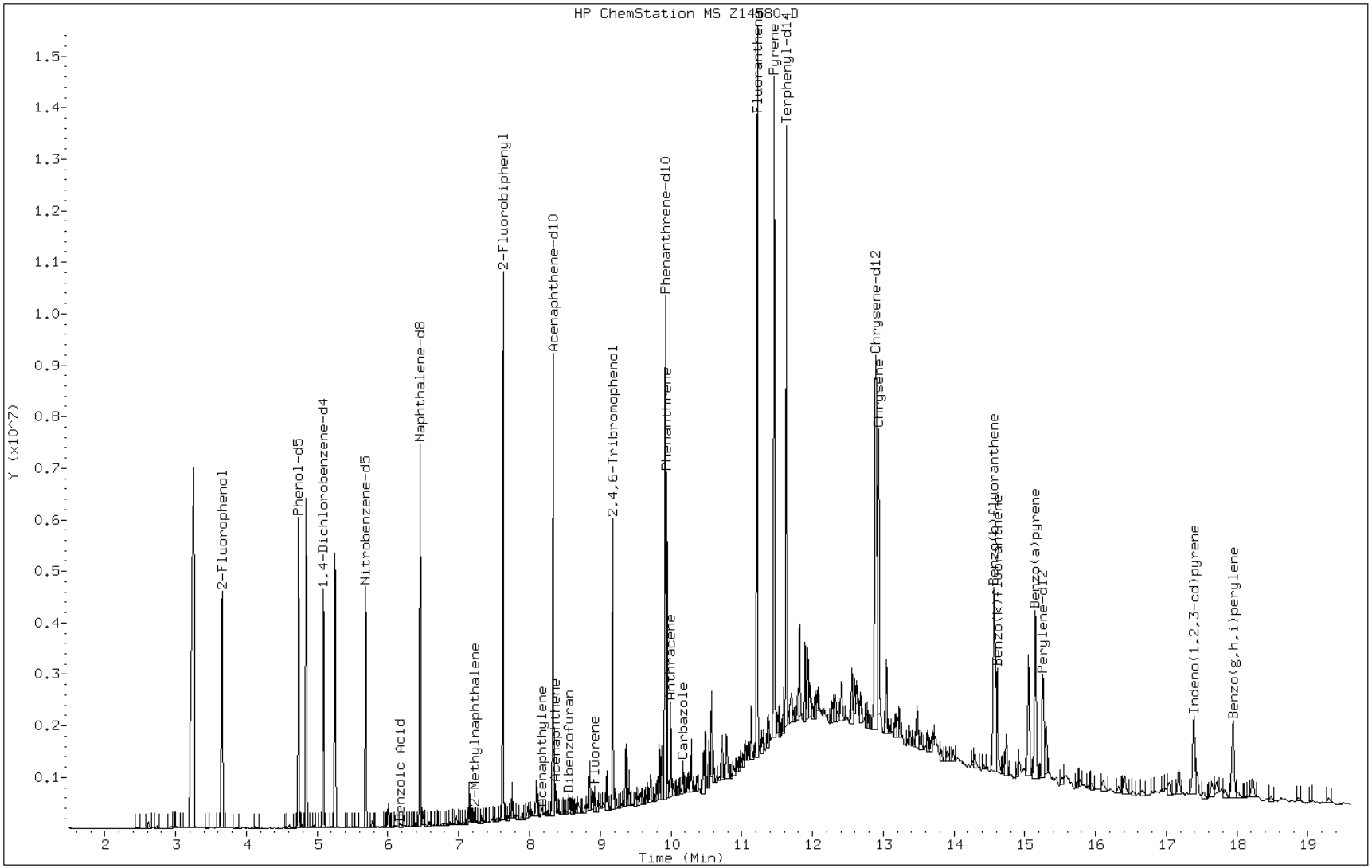
H - Operator selected an alternate compound hit.

Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas



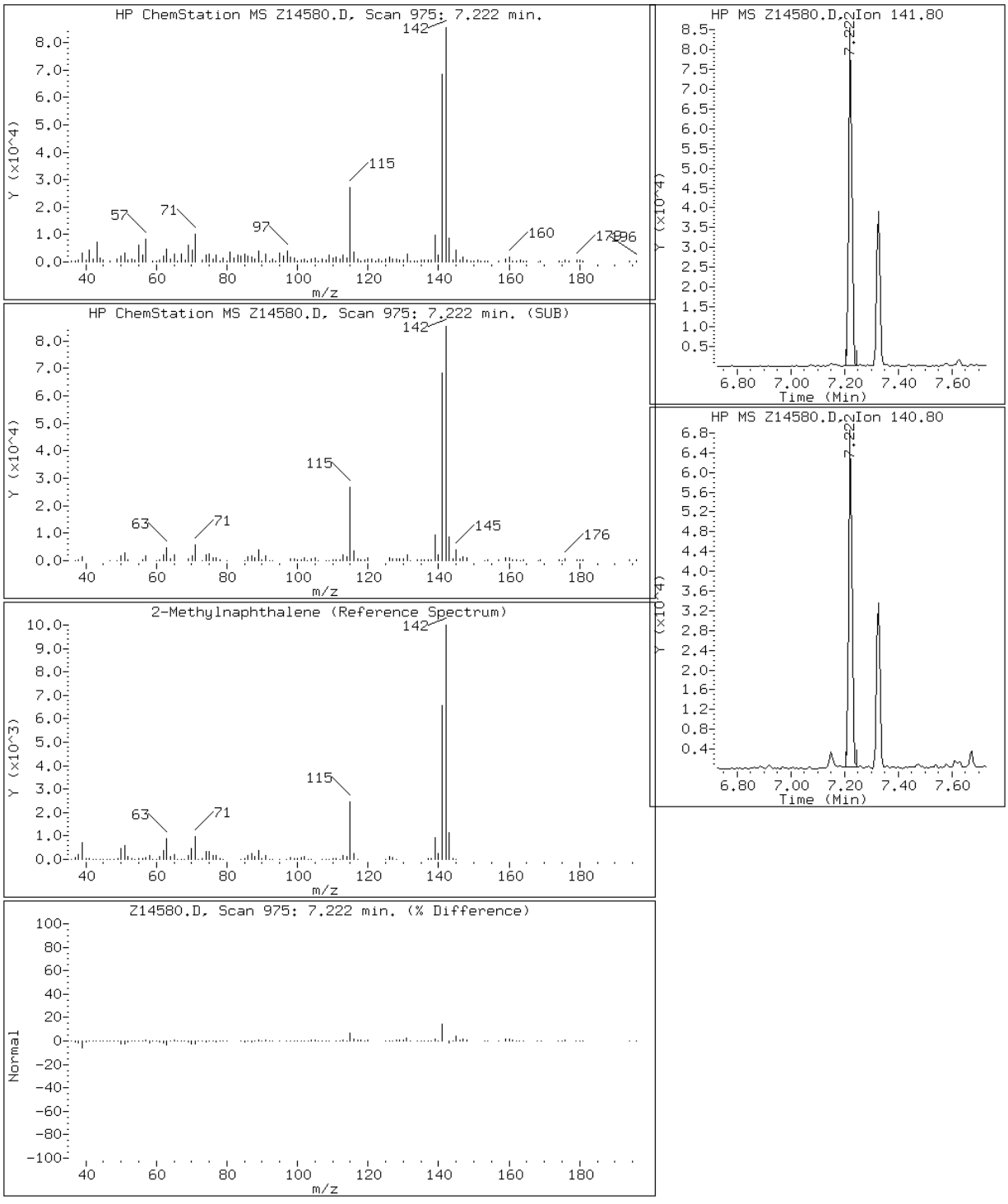
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

34 2-Methylnaphthalene



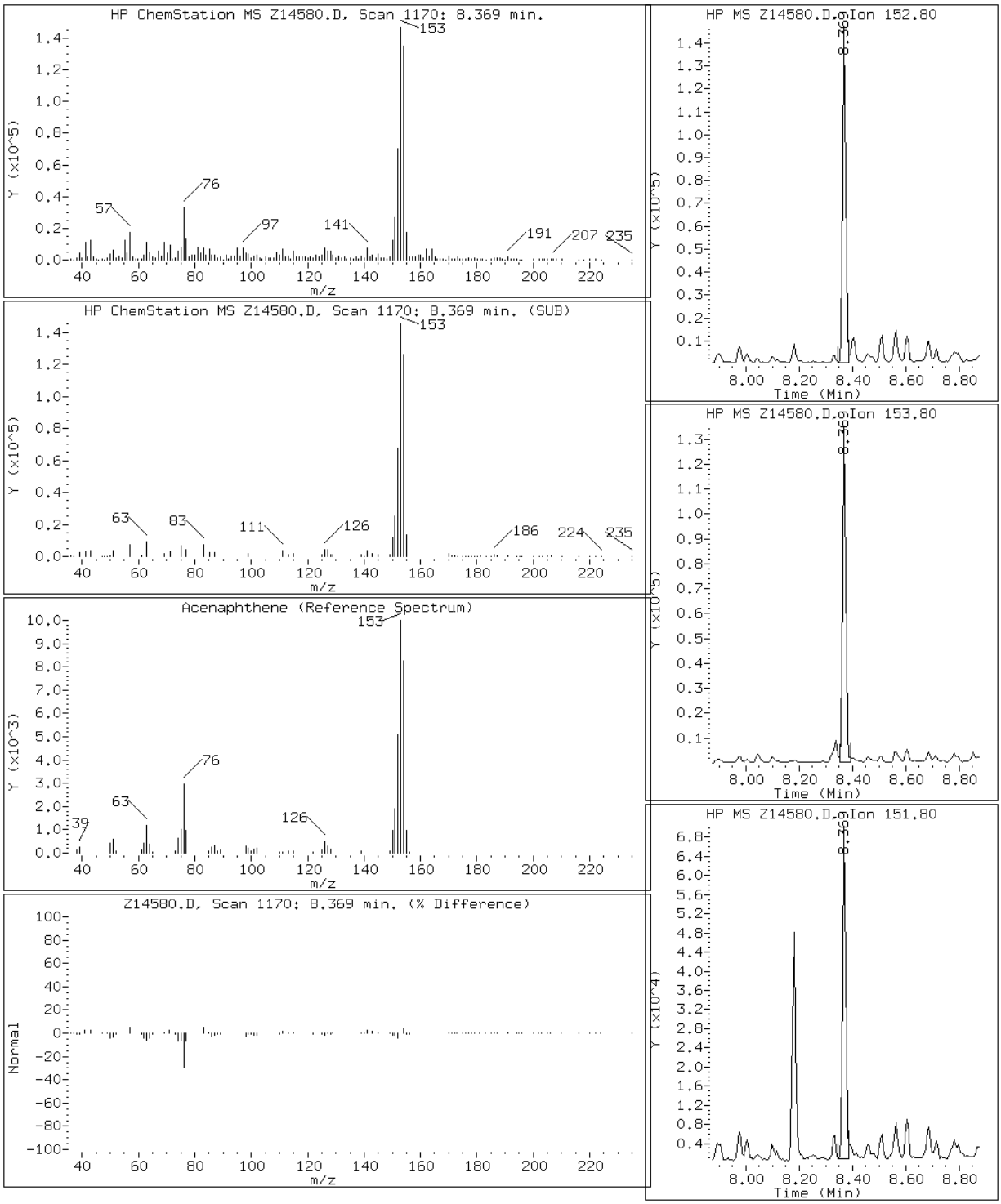
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

46 Acenaphthene



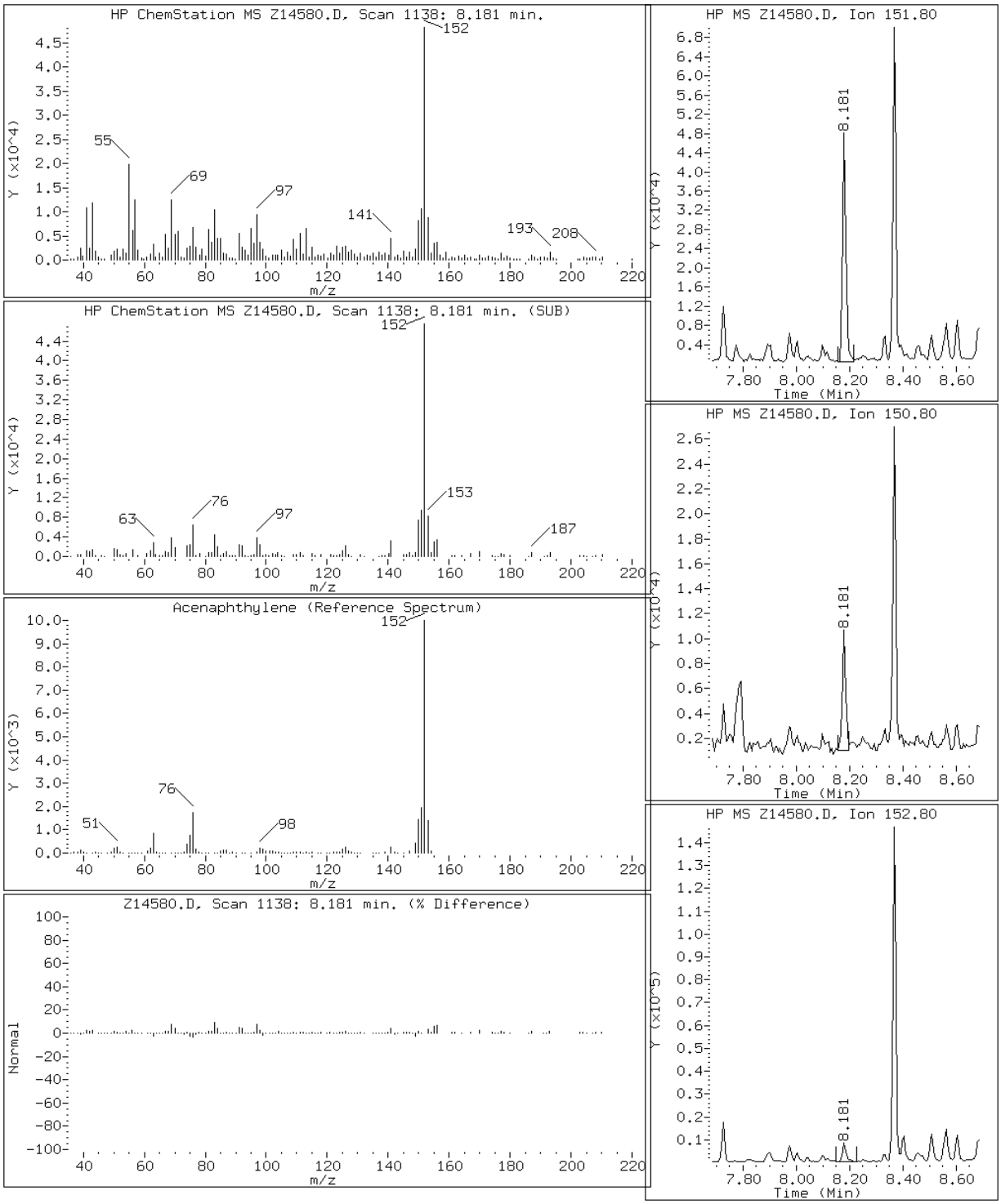
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

43 Acenaphthylene



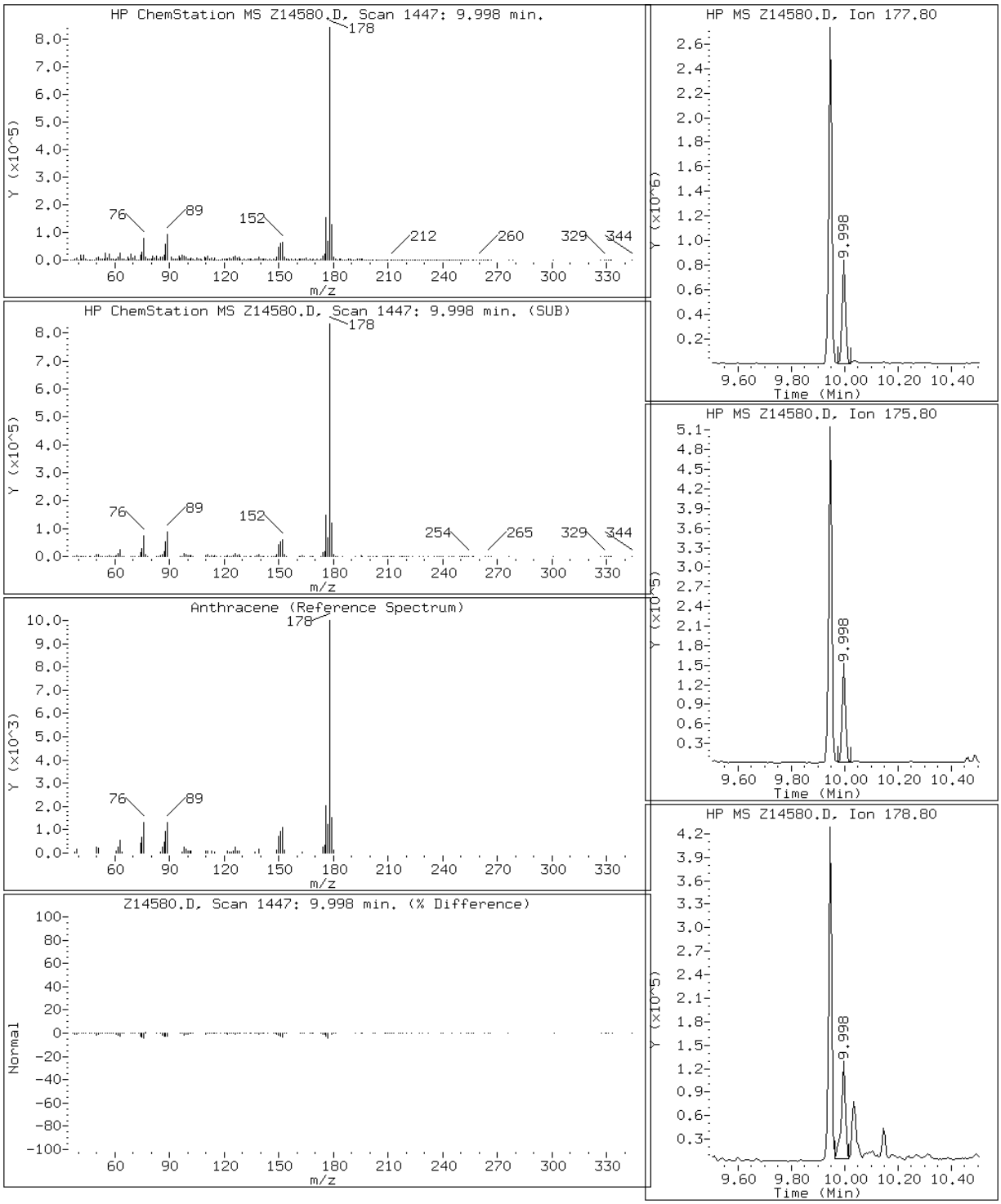
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

66 Anthracene



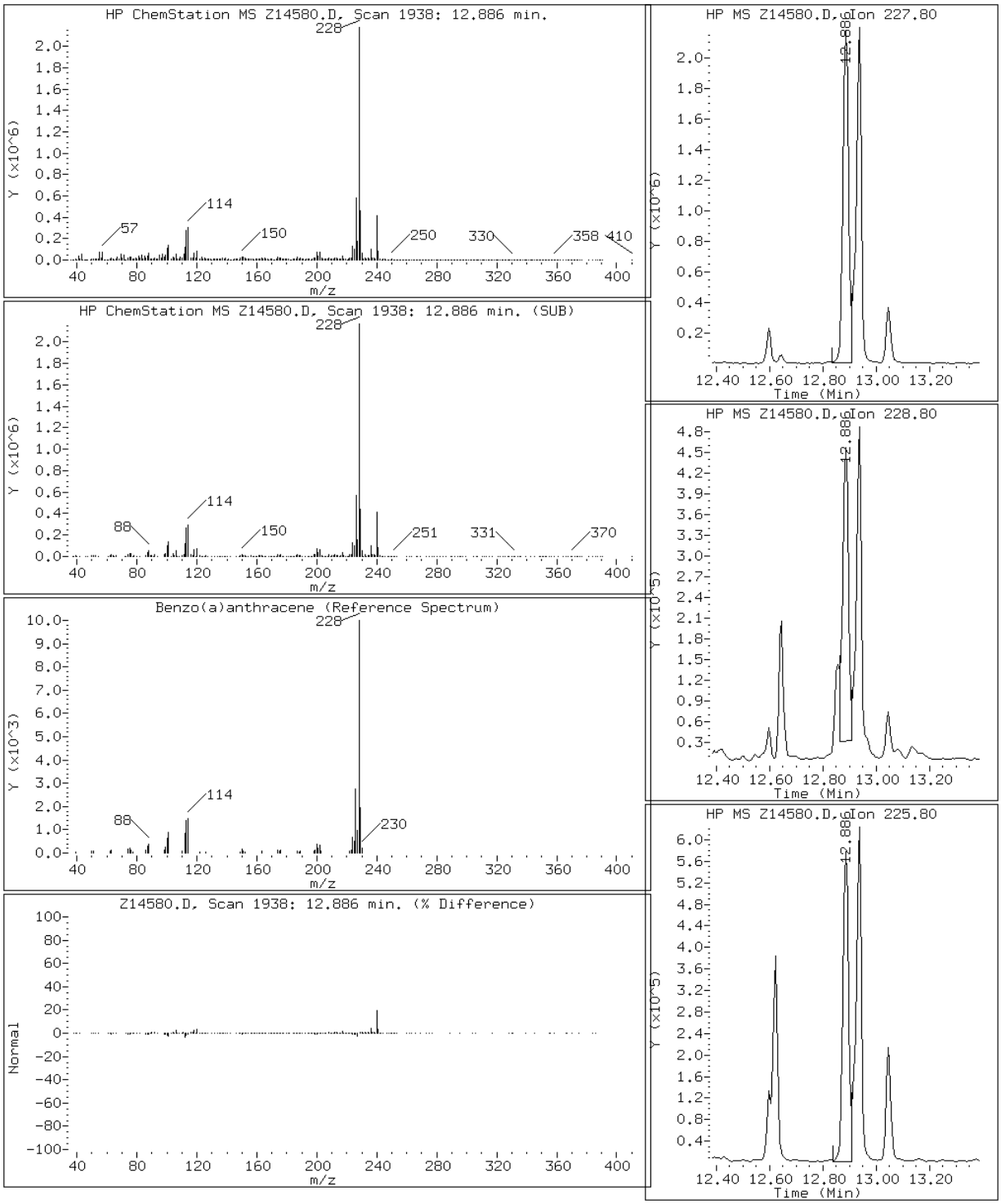
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

76 Benzo(a)anthracene



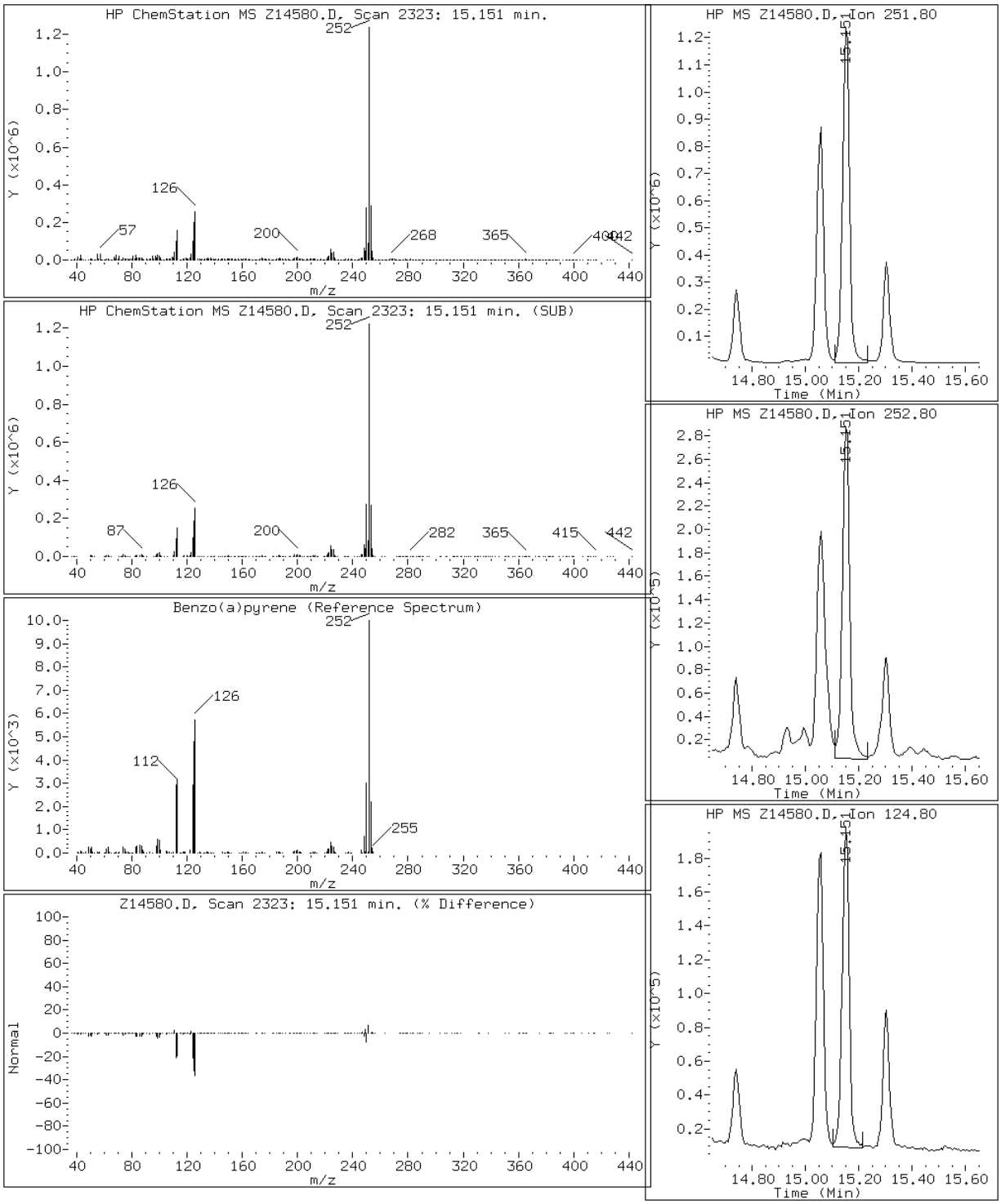
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

83 Benzo(a)pyrene



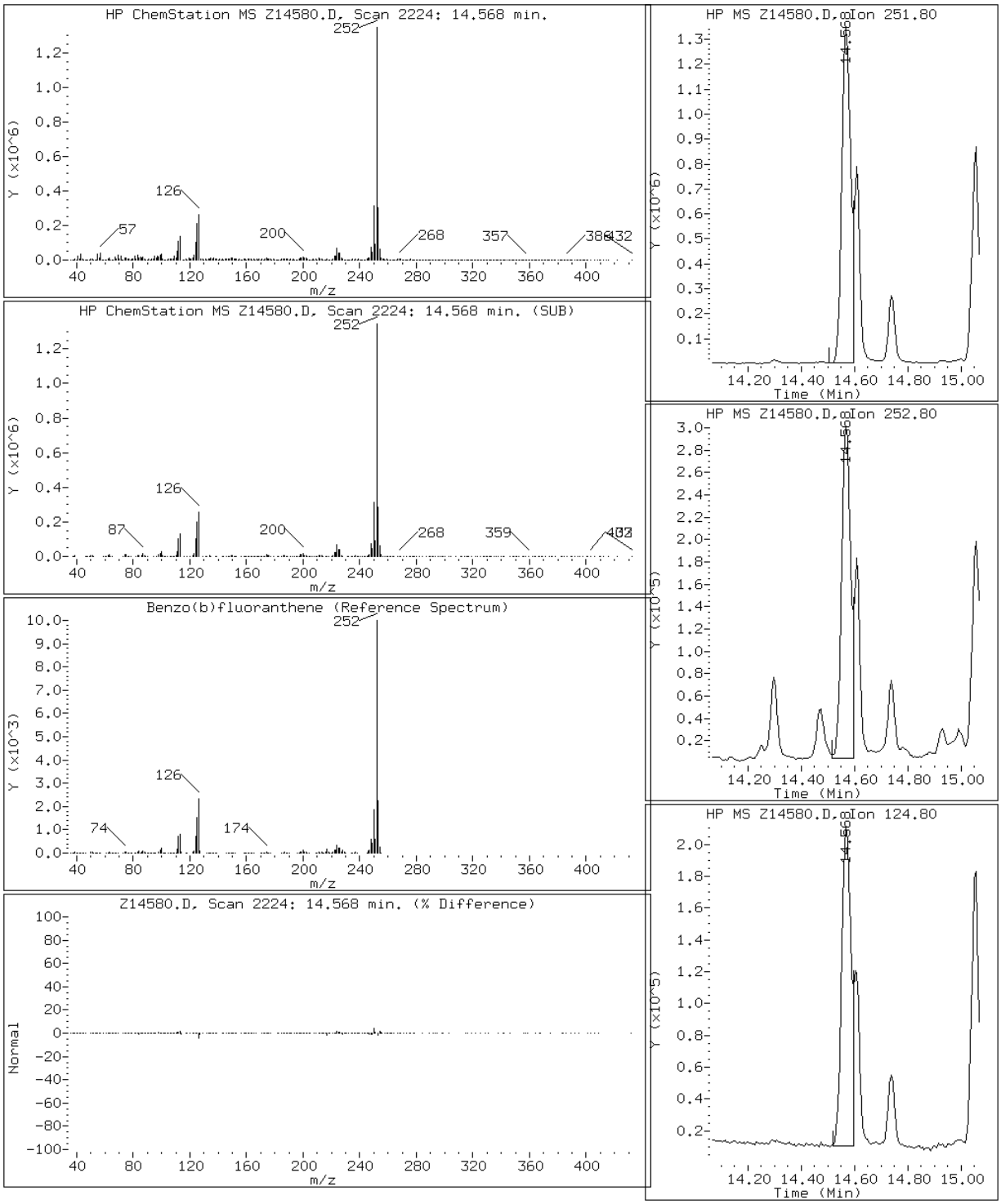
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

81 Benzo(b)fluoranthene



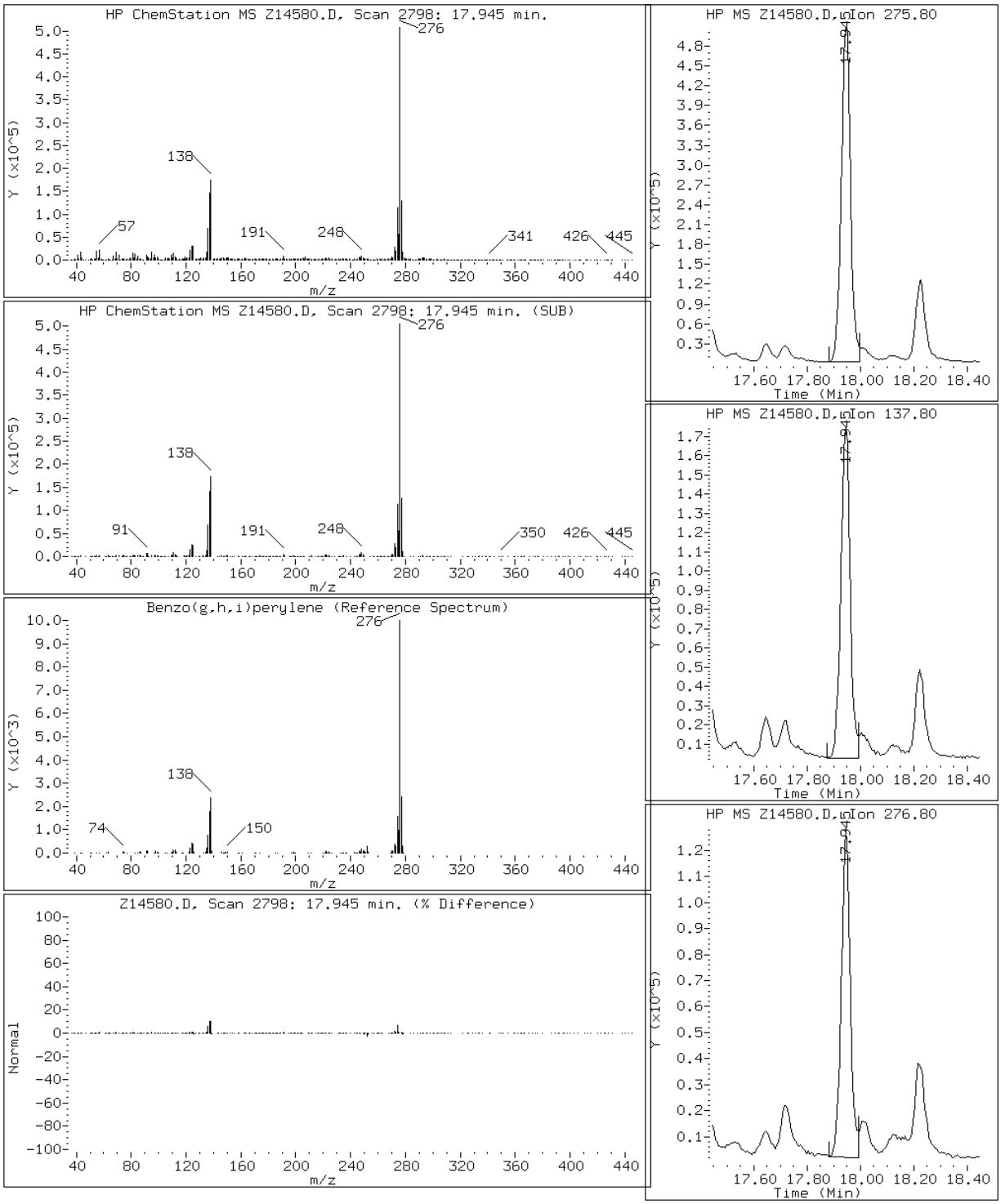
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

86 Benzo(g,h,i)perylene



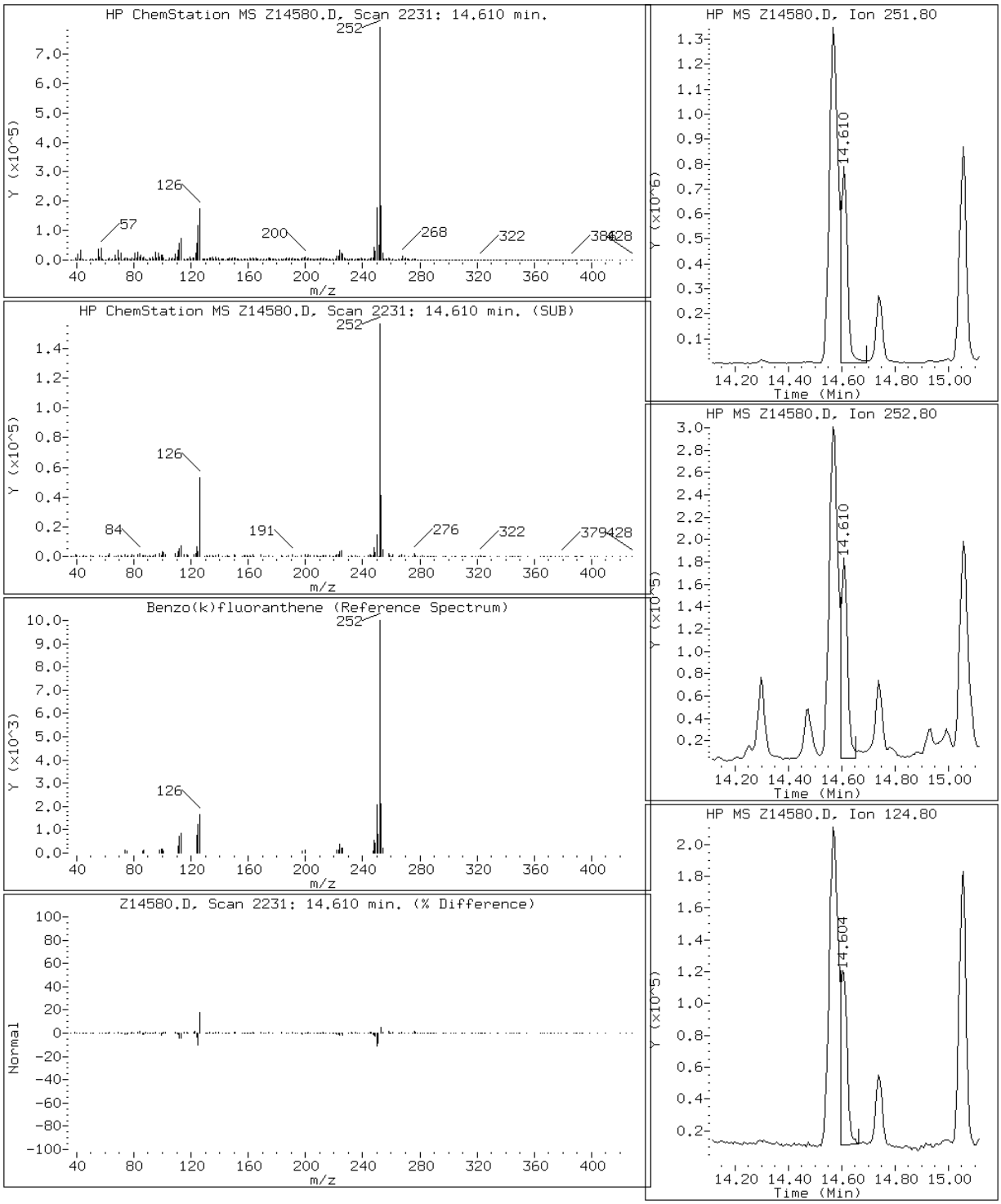
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

82 Benzo(k)fluoranthene



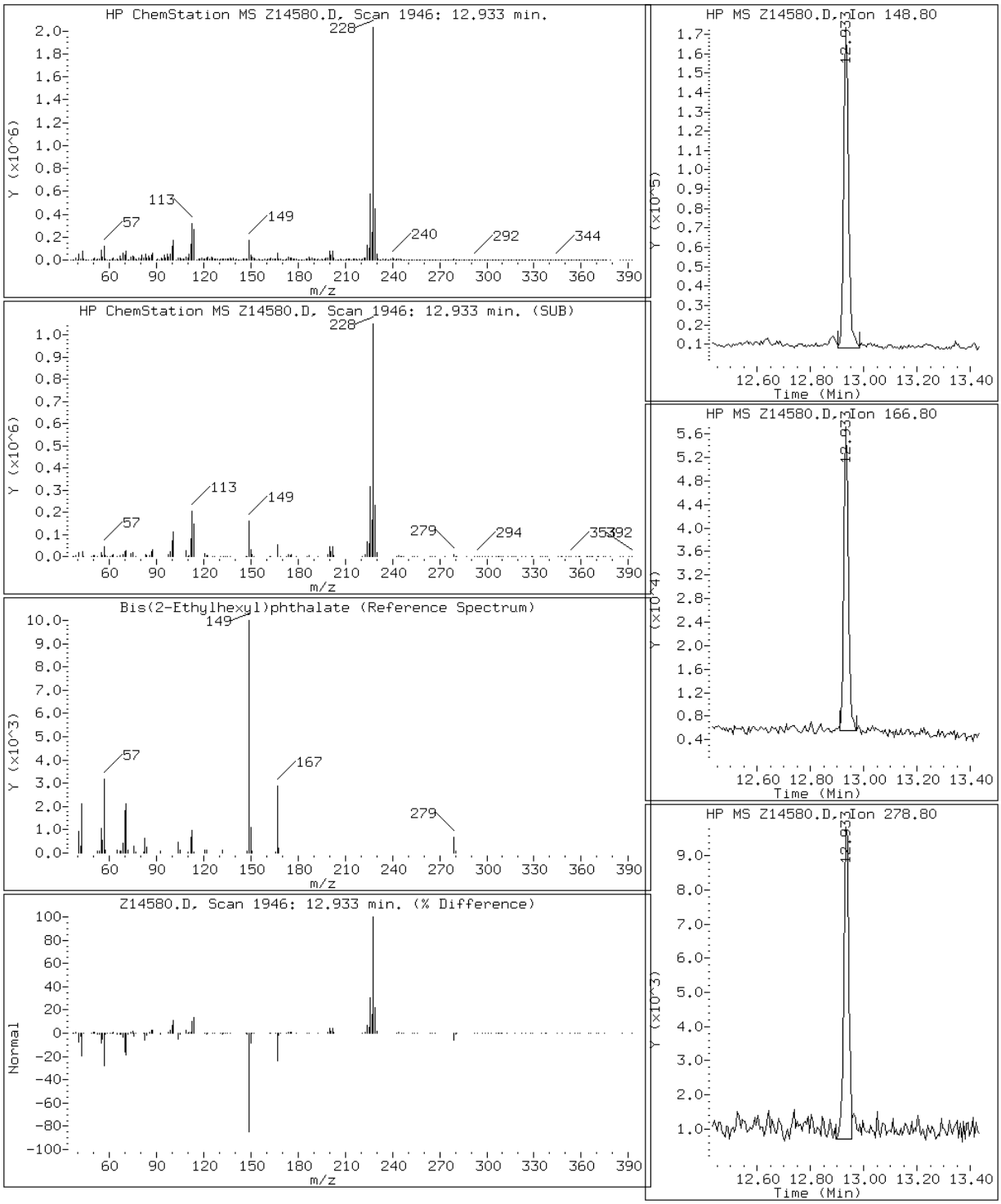
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



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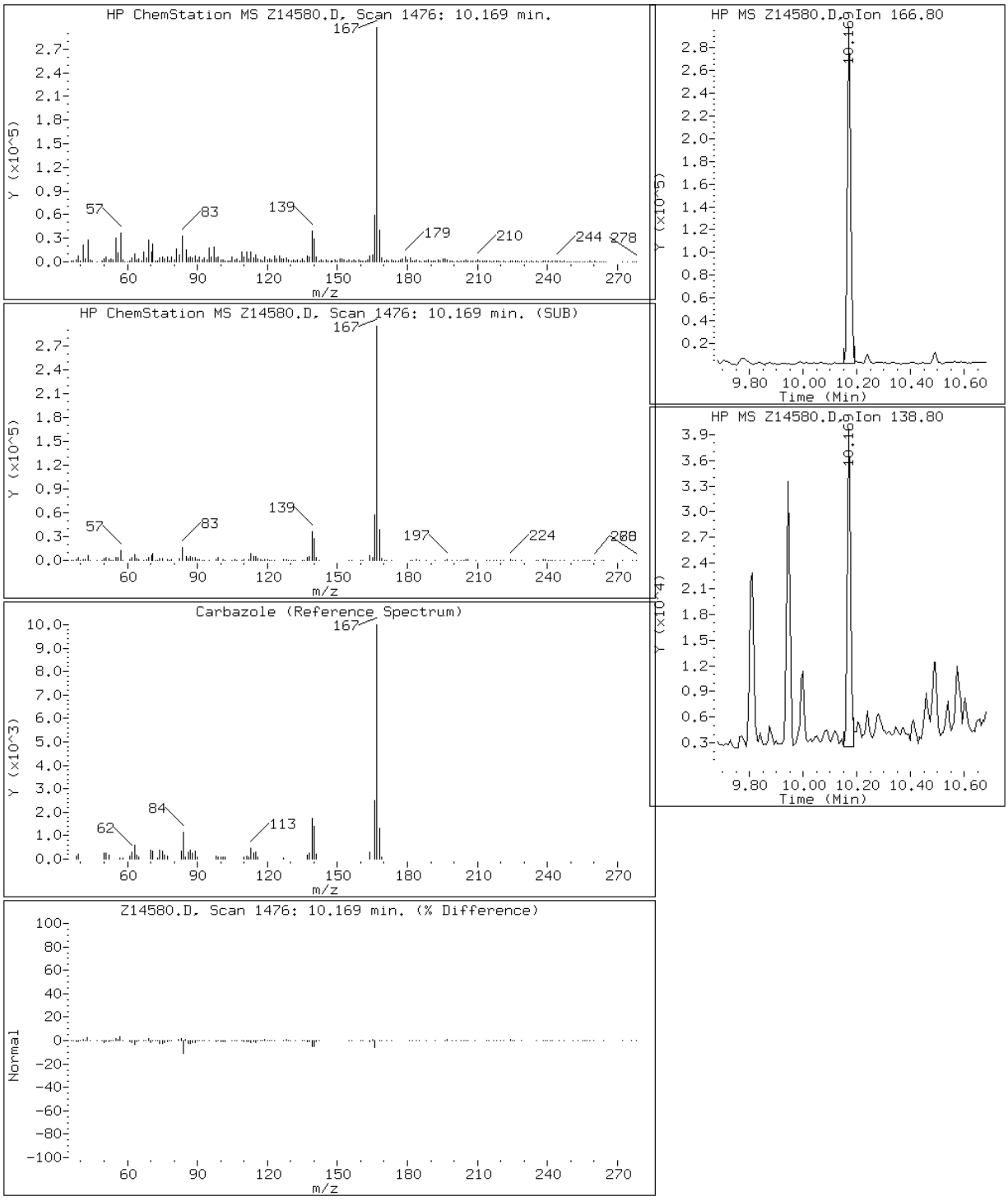
Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

65 Carbazole



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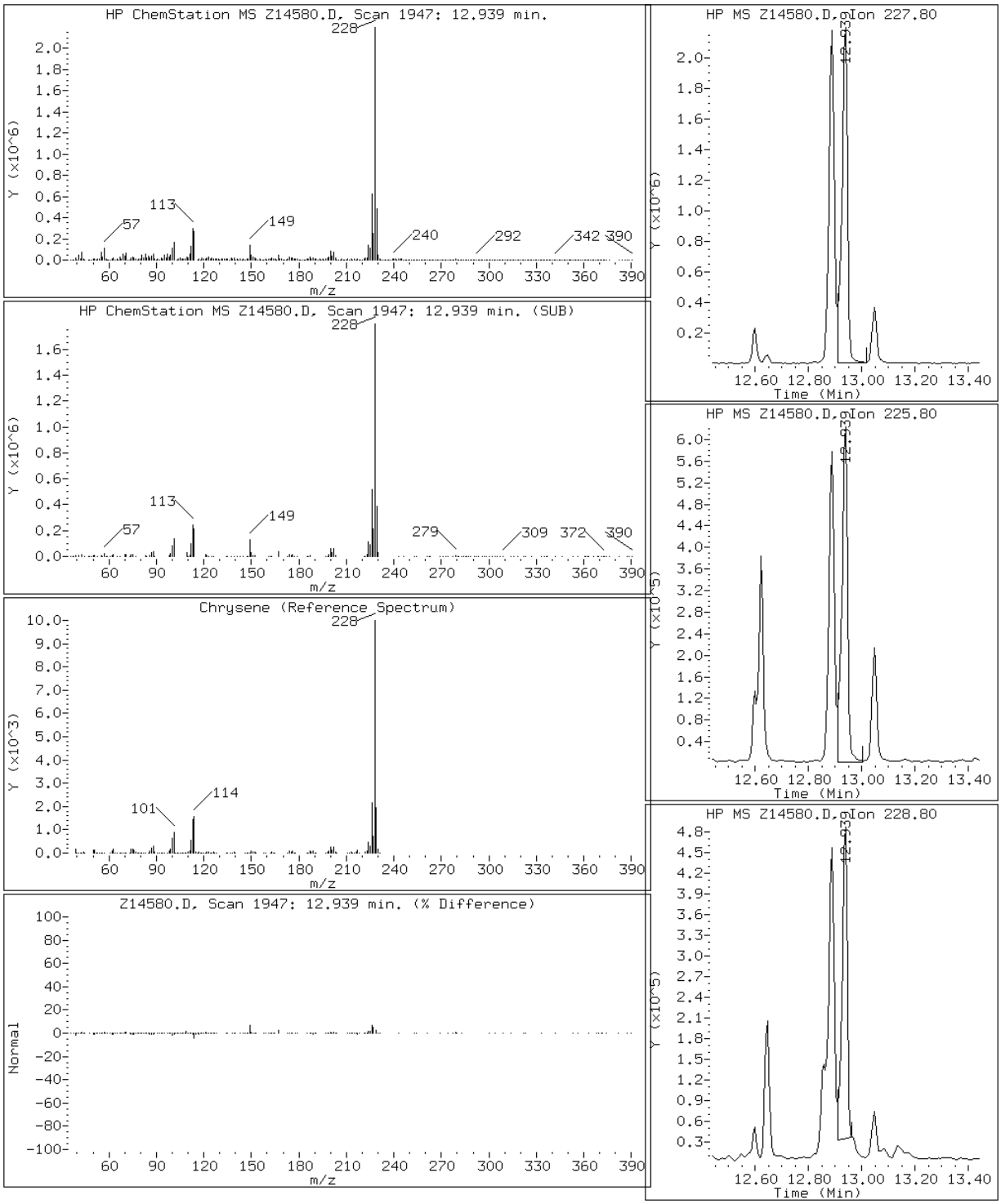
Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

77 Chrysene



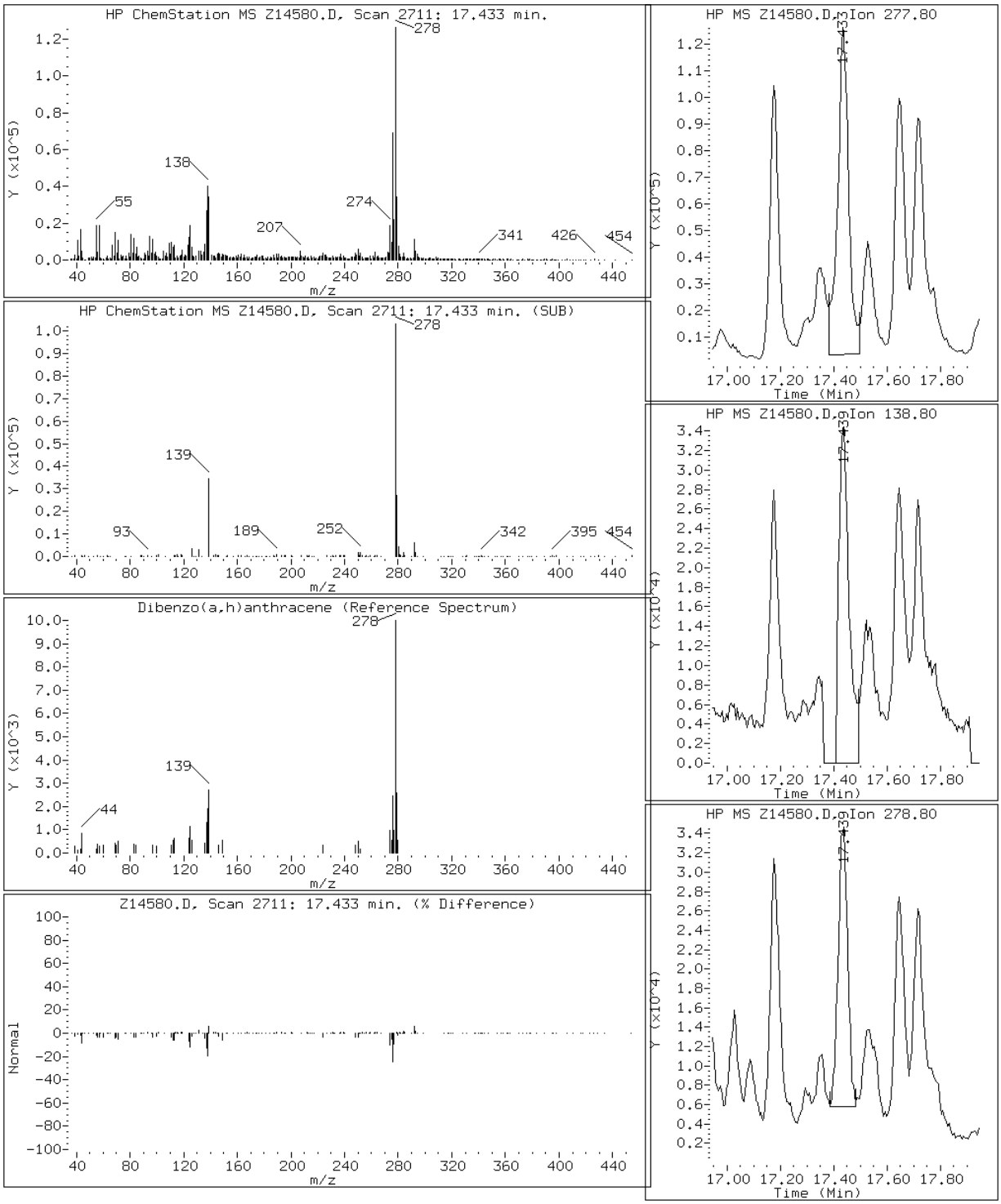
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

85 Dibenzo(a,h)anthracene



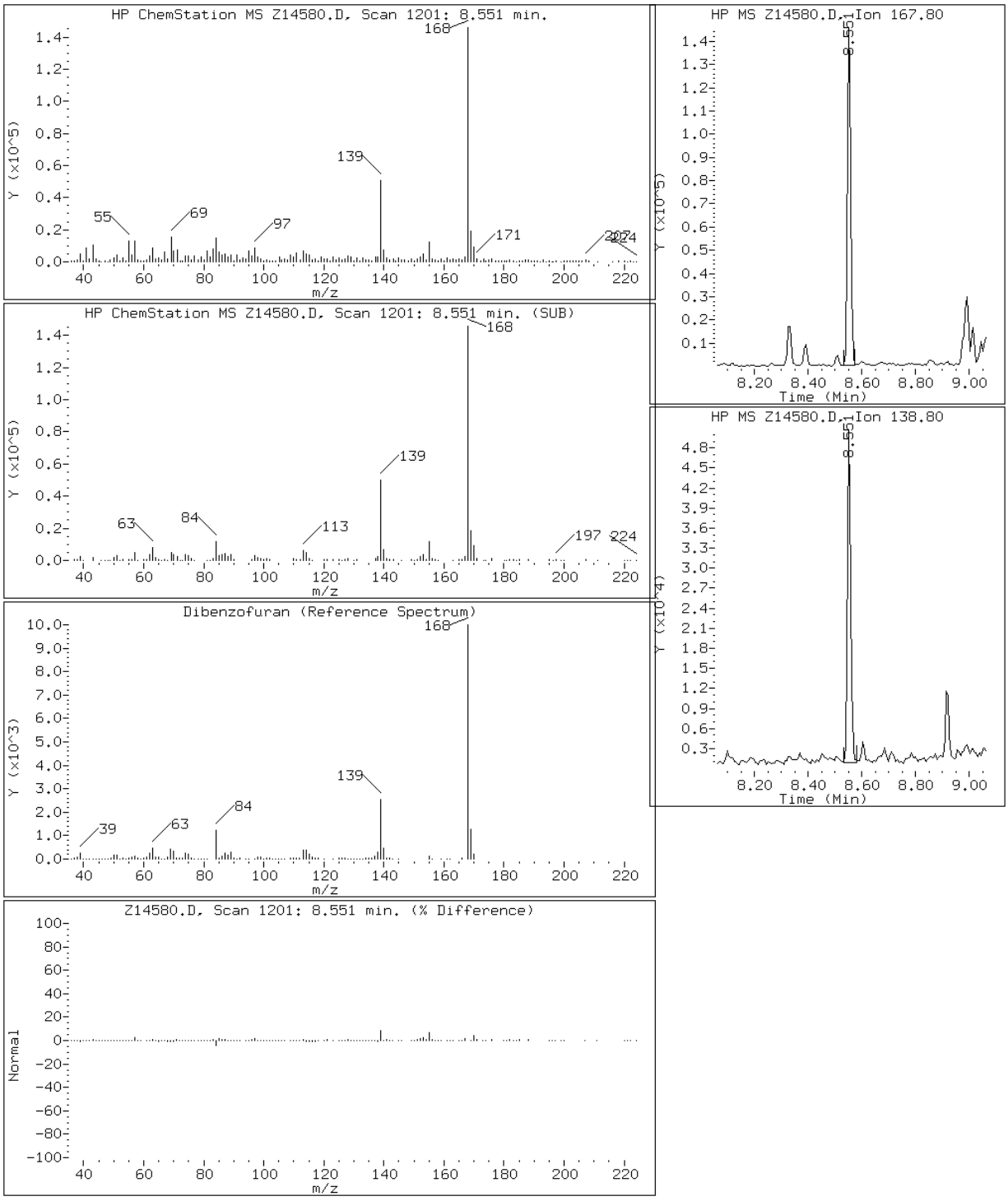
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

49 Dibenzofuran



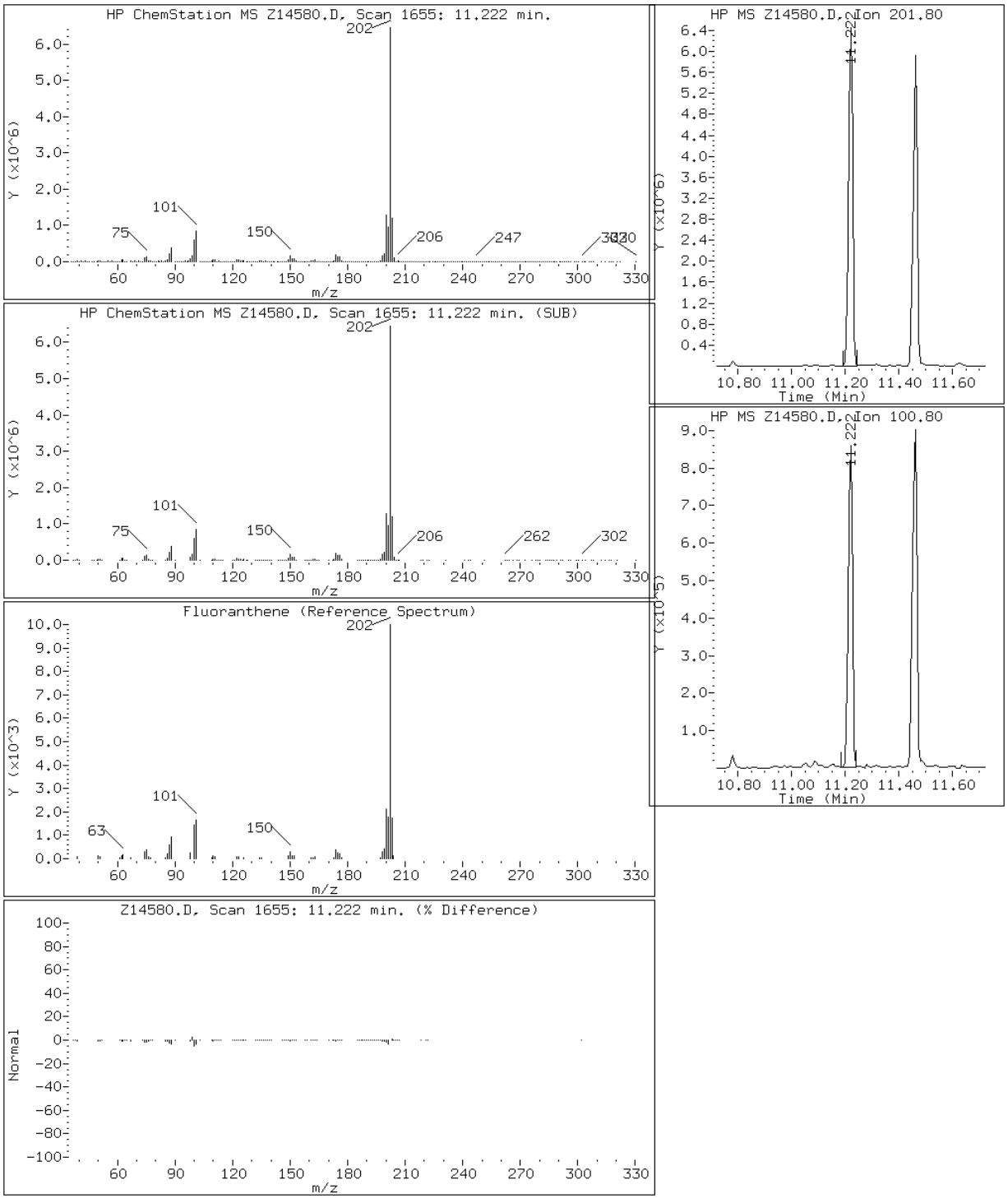
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

68 Fluoranthene



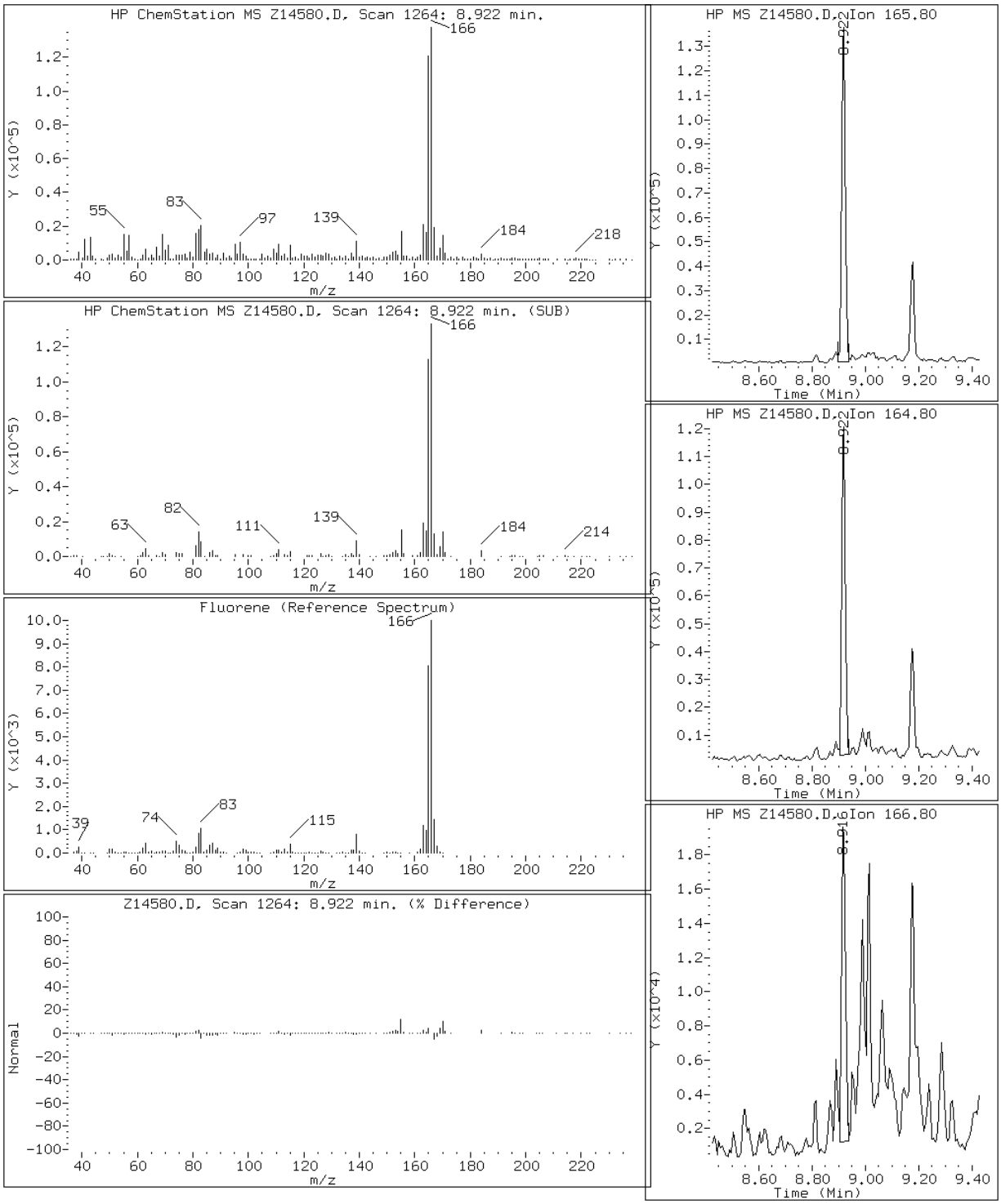
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

52 Fluorene



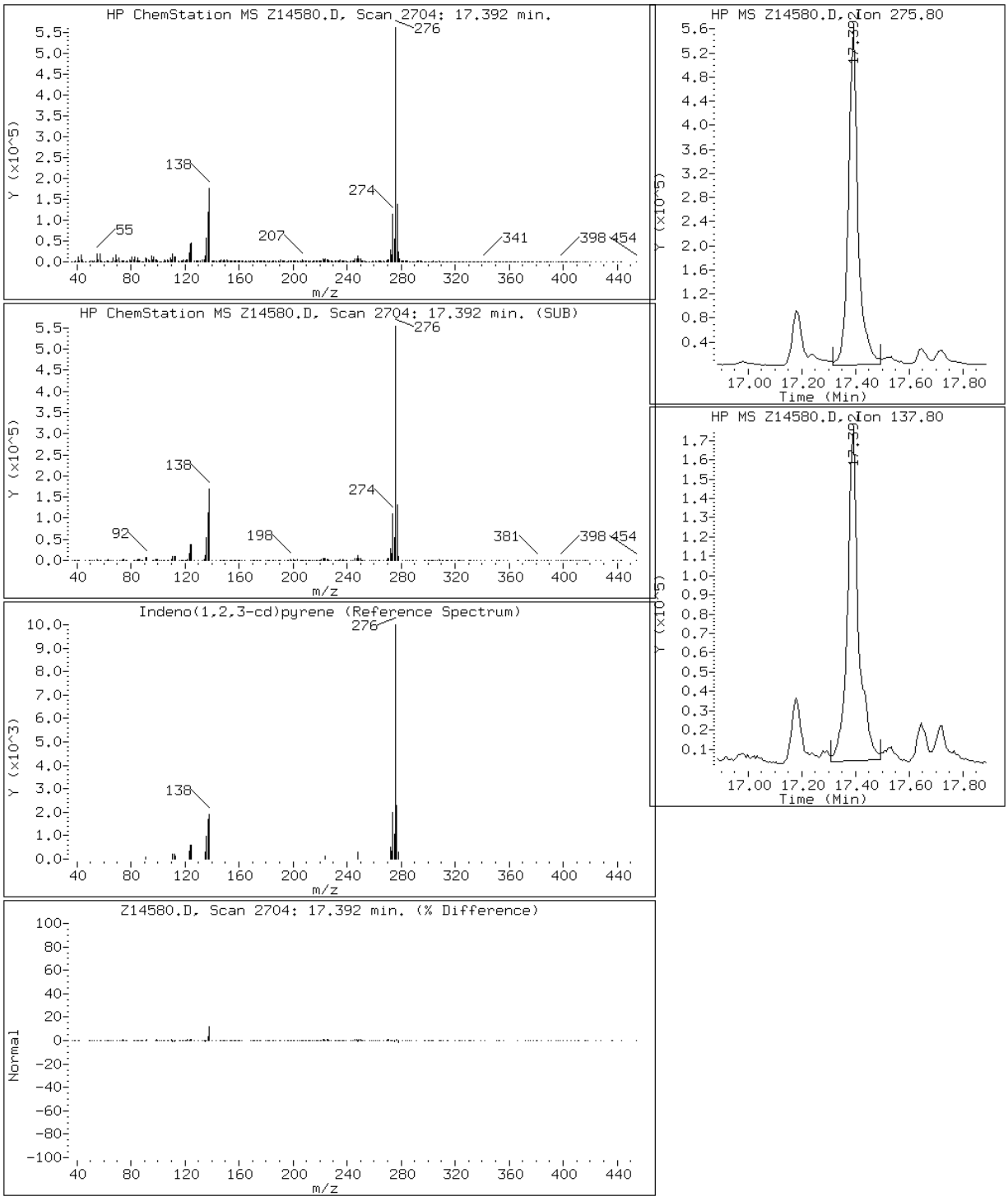
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



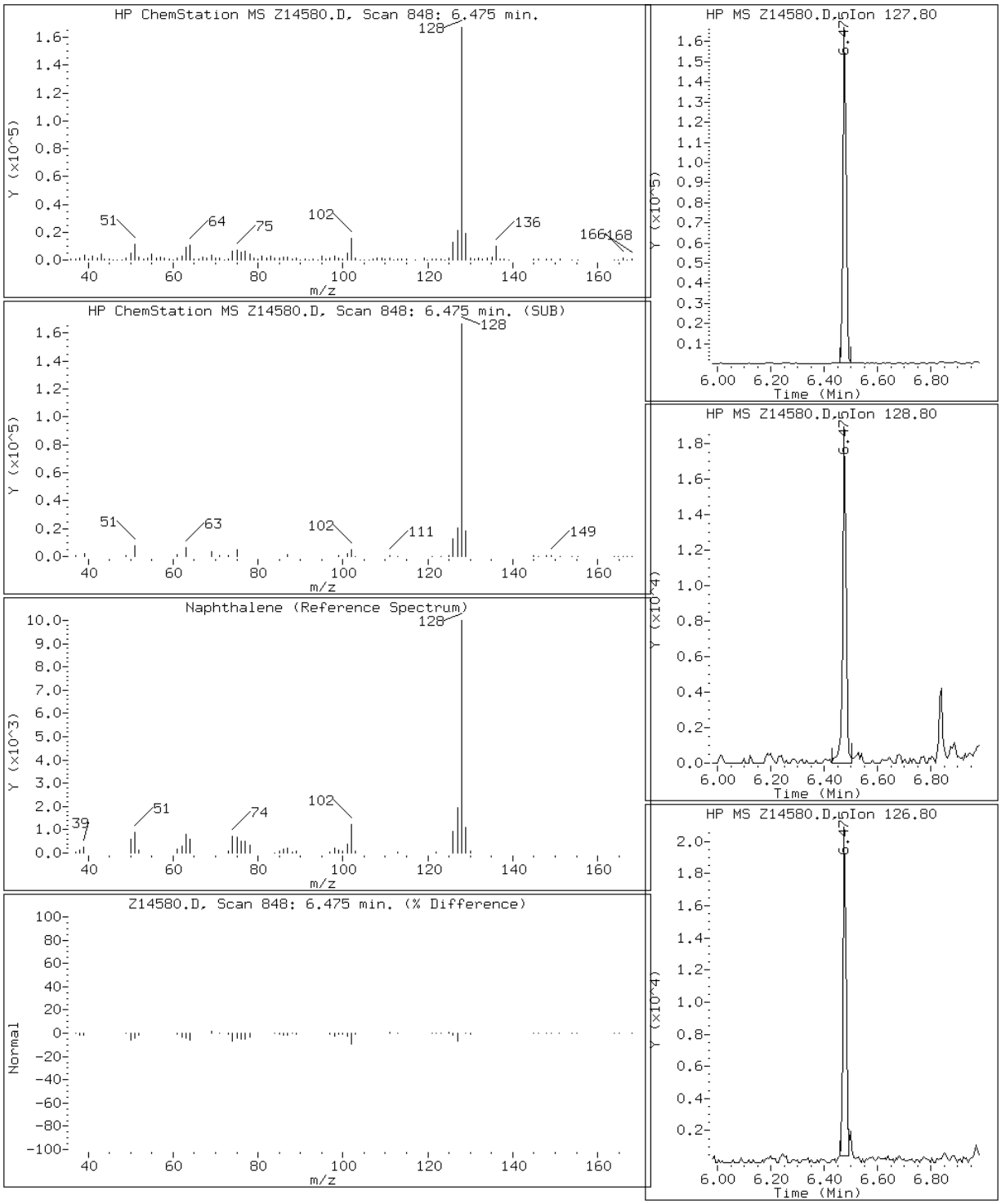
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

30 Naphthalene



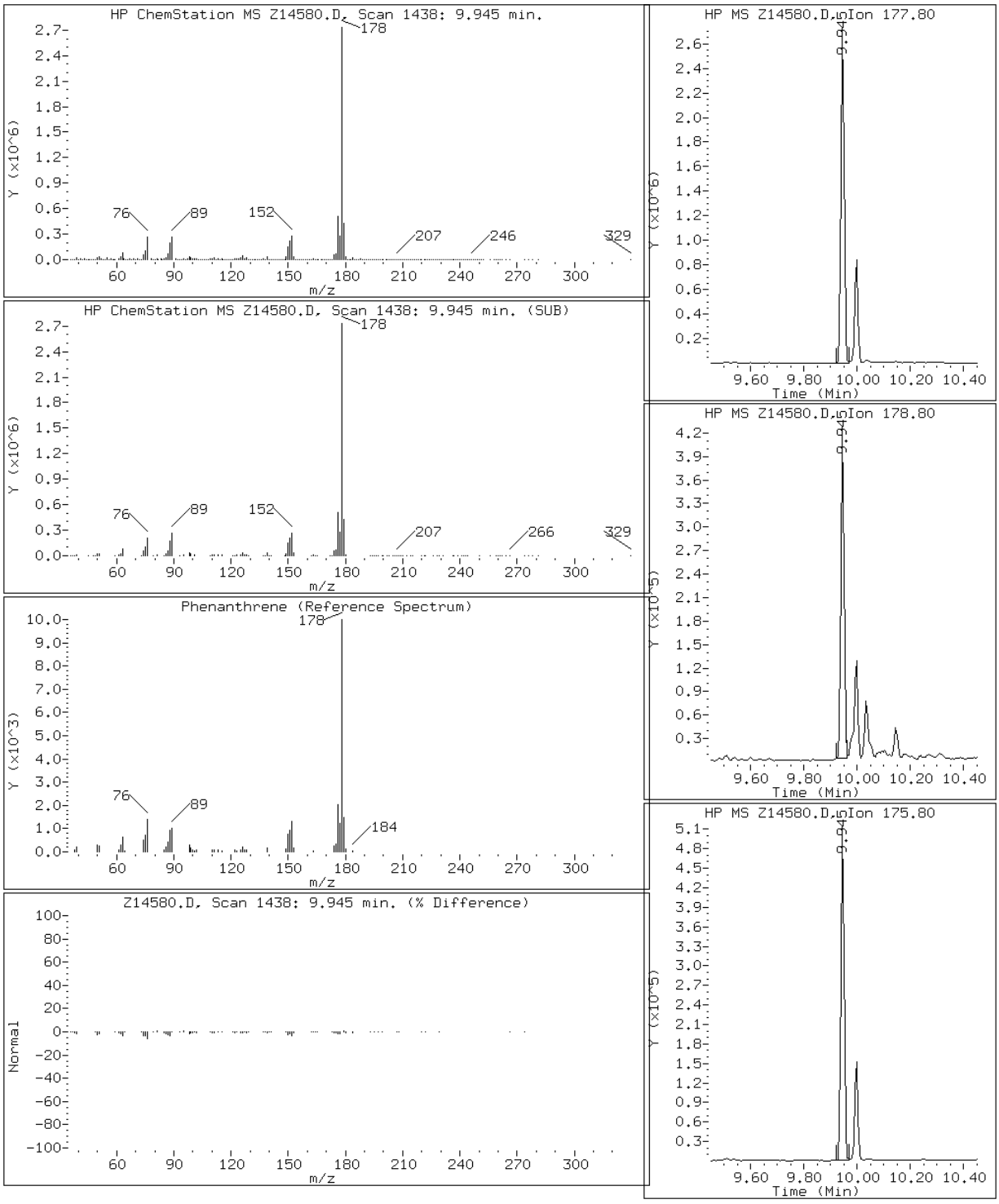
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

64 Phenanthrene



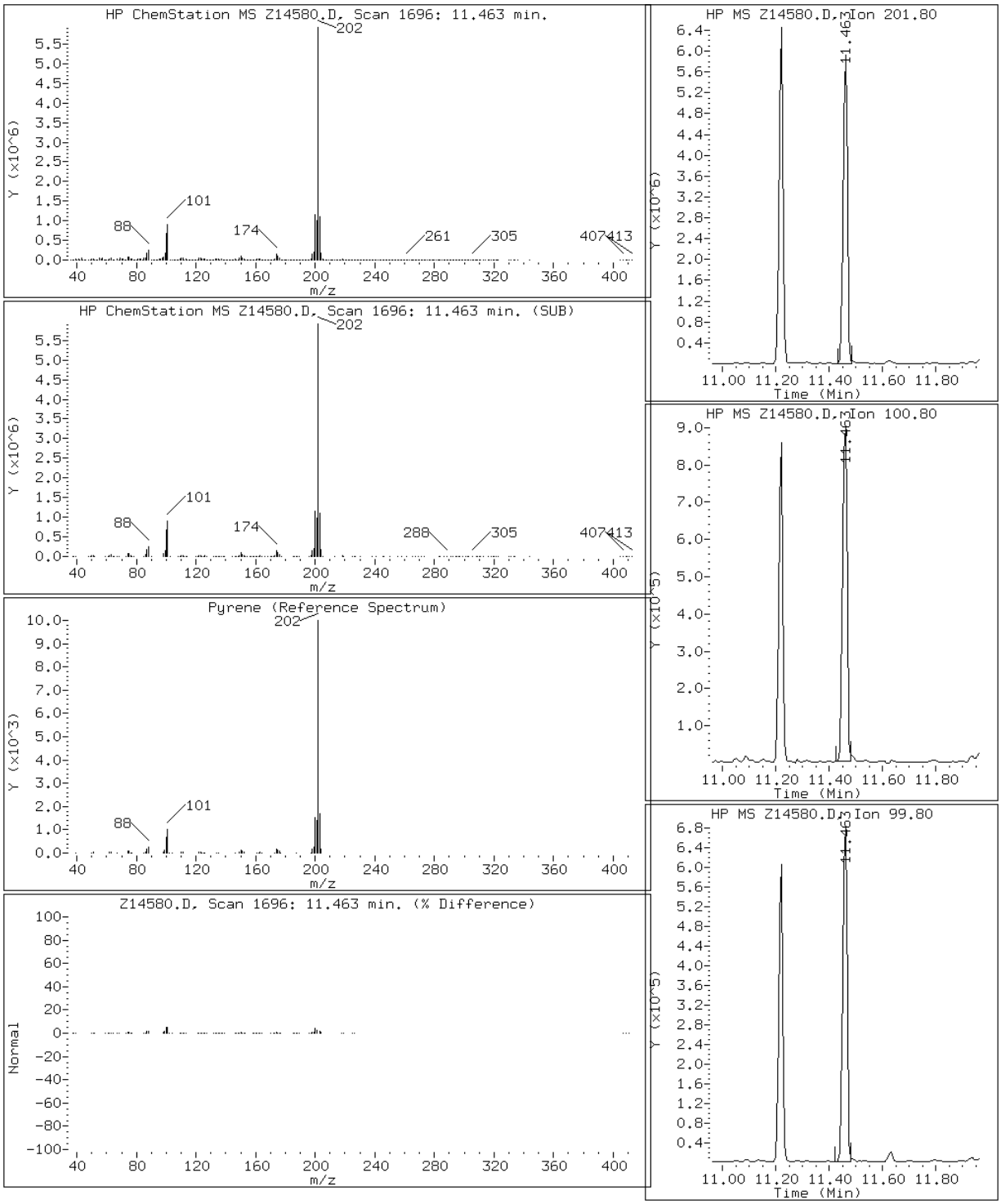
Data File: Z14580.D

Date: 21-DEC-2009 17:02

Client ID: PBL-5-10-E(4') Instrument: msz.i

Sample Info: 220-11066-A-1-A Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-2-W(7') | Lab Sample ID: 220-11066-2

Matrix: Solid | Lab File ID: Z14581.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.11(g) | Date Analyzed: 12/21/2009 17:30

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	310	U	310	20
95-95-4	2,4,5-Trichlorophenol	1900	U	1900	16
88-06-2	2,4,6-Trichlorophenol	310	U	310	8.4
120-83-2	2,4-Dichlorophenol	310	U	310	16
105-67-9	2,4-Dimethylphenol	310	U	310	15
121-14-2	2,4-Dinitrotoluene	310	U	310	25
51-28-5	2,4-Dinitrophenol	1900	U	1900	92
606-20-2	2,6-Dinitrotoluene	310	U	310	9.0
91-58-7	2-Chloronaphthalene	310	U	310	13
95-57-8	2-Chlorophenol	310	U	310	18
91-57-6	2-Methylnaphthalene	44	J	310	8.8
95-48-7	2-Methylphenol	310	U	310	18
88-74-4	2-Nitroaniline	760	U	760	19
88-75-5	2-Nitrophenol	310	U	310	19
91-94-1	3,3'-Dichlorobenzidine	380	U	380	63
99-09-2	3-Nitroaniline	760	U	760	9.8
534-52-1	4,6-Dinitro-2-methylphenol	1900	U	1900	130
101-55-3	4-Bromophenyl phenyl ether	310	U	310	20
59-50-7	4-Chloro-3-methylphenol	310	U	310	13
106-47-8	4-Chloroaniline	310	U	310	50
7005-72-3	4-Chlorophenyl phenyl ether	310	U	310	23
106-44-5	4-Methylphenol	310	U	310	20
100-01-6	4-Nitroaniline	310	U	310	24
100-02-7	4-Nitrophenol	1900	U	1900	23
83-32-9	Acenaphthene	64	J	310	18
208-96-8	Acenaphthylene	160	J	310	15
98-86-2	Acetophenone	310	U	310	16
120-12-7	Anthracene	330		310	12
1912-24-9	Atrazine	380	U	380	20
100-52-7	Benzaldehyde	100	J	310	51
56-55-3	Benzo[a]anthracene	1400		310	11
50-32-8	Benzo[a]pyrene	1300		310	8.3
205-99-2	Benzo[b]fluoranthene	1500		310	8.2
191-24-2	Benzo[g,h,i]perylene	1200		310	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-2-W(7') | Lab Sample ID: 220-11066-2

Matrix: Solid | Lab File ID: Z14581.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.11(g) | Date Analyzed: 12/21/2009 17:30

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	530		310	28
111-91-1	Bis(2-chloroethoxy)methane	310	U	310	14
111-44-4	Bis(2-chloroethyl)ether	310	U	310	16
117-81-7	Bis(2-ethylhexyl) phthalate	180	J B	310	30
85-68-7	Butyl benzyl phthalate	310	U	310	17
105-60-2	Caprolactam	310	U	310	24
86-74-8	Carbazole	230	J	310	17
218-01-9	Chrysene	1400		310	23
84-74-2	Di-n-butyl phthalate	310	U	310	45
117-84-0	Di-n-octyl phthalate	310		310	17
53-70-3	Dibenz(a,h)anthracene	270	J	310	24
132-64-9	Dibenzofuran	34	J	310	22
84-66-2	Diethyl phthalate	310	U	310	31
131-11-3	Dimethyl phthalate	310	U	310	18
206-44-0	Fluoranthene	2500		310	15
86-73-7	Fluorene	60	J	310	18
118-74-1	Hexachlorobenzene	310	U	310	21
87-68-3	Hexachlorobutadiene	310	U	310	24
77-47-4	Hexachlorocyclopentadiene	760	U	760	140
67-72-1	Hexachloroethane	310	U	310	18
193-39-5	Indeno[1,2,3-cd]pyrene	1300		310	20
78-59-1	Isophorone	310	U	310	17
621-64-7	N-Nitrosodi-n-propylamine	310	U	310	21
86-30-6	N-Nitrosodiphenylamine	310	U	310	17
91-20-3	Naphthalene	49	J	310	16
98-95-3	Nitrobenzene	310	U	310	20
87-86-5	Pentachlorophenol	760	U	760	190
85-01-8	Phenanthrene	1100		310	15
108-95-2	Phenol	310	U	310	20
129-00-0	Pyrene	3300		310	14
108-60-1	2,2'-oxybis[1-chloropropane]	310	U	310	16

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-2-W(7') | Lab Sample ID: 220-11066-2

Matrix: Solid | Lab File ID: Z14581.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.11(g) | Date Analyzed: 12/21/2009 17:30

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	61	37-120	
321-60-8	2-Fluorobiphenyl	56	41-120	
367-12-4	2-Fluorophenol	54	34-120	
4165-60-0	Nitrobenzene-d5	57	38-120	
4165-62-2	Phenol-d5	56	36-120	
1718-51-0	Terphenyl-d14	87	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14581.D
Lab Smp Id: 220-11066-A-2-A Client Smp ID: PBL-5-2-W(7')
Inj Date : 21-DEC-2009 17:30
Operator : S.Jonas Inst ID: msz.i
Smp Info : 220-11066-A-2-A
Misc Info : 220-11066-A-2-A
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.110	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	12.980	% Moisture
Cpnd Variable		Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
*	1	1,4-Dichlorobenzene-d4	152	5.086	5.087	(1.000)	738122	20.0000	
$	2	2-Fluorophenol	112	3.657	3.634	(0.719)	1764617	40.1725	3100
$	3	Phenol-d5	99	4.739	4.734	(0.932)	2436210	41.8684	3200
	128	Benzaldehyde	77	4.610	4.604	(0.906)	7459	1.33309	100(H)
*	20	Naphthalene-d8	136	6.457	6.457	(1.000)	3267506	20.0000	
$	21	Nitrobenzene-d5	82	5.686	5.693	(0.881)	1546682	28.5702	2200
	26	Benzoic Acid	122	6.174	6.281	(0.956)	10992	6.36167	480(H)
	30	Naphthalene	128	6.474	6.481	(1.003)	105509	0.63897	49
	34	2-Methylnaphthalene	142	7.221	7.228	(1.118)	63371	0.58237	44
*	35	Acenaphthene-d10	164	8.339	8.339	(1.000)	2035745	20.0000	
$	40	2-Fluorobiphenyl	172	7.627	7.634	(0.915)	3495903	28.1520	2100
	43	Acenaphthylene	152	8.180	8.186	(0.981)	375194	2.04285	160
	46	Acenaphthene	153	8.368	8.375	(1.004)	94977	0.84582	64
	49	Dibenzofuran	168	8.551	8.563	(1.025)	72750	0.44910	34
	52	Fluorene	166	8.921	8.928	(1.070)	97432	0.78601	60
$	56	2,4,6-Tribromophenol	330	9.180	9.186	(1.101)	814197	46.0379	3500
*	57	Phenanthrene-d10	188	9.921	9.922	(1.000)	3572745	20.0000	
	64	Phenanthrene	178	9.945	9.951	(1.002)	2727881	14.8294	1100

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
	65 Carbazole	167	10.168	10.180	(1.025)	530526	2.98569	230
	66 Anthracene	178	9.998	10.004	(1.008)	812954	4.32752	330
	68 Fluoranthene	202	11.221	11.222	(1.131)	6495284	32.5230	2500
*	70 Chrysene-d12	240	12.897	12.904	(1.000)	2238232	20.0000	
	72 Pyrene	202	11.462	11.463	(0.889)	6369568	43.0757	3300
$	73 Terphenyl-d14	244	11.633	11.633	(0.902)	4077213	43.6761	3300
	76 Benzo(a)anthracene	228	12.886	12.886	(0.999)	2301375	18.5233	1400
	77 Chrysene	228	12.933	12.939	(1.003)	2177677	18.5723	1400
	78 Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.003)	157013	2.38947	180
*	79 Perylene-d12	264	15.250	15.257	(1.000)	1027342	20.0000	
	80 Di-n-octylphthalate	149	13.927	13.933	(0.913)	103918	4.06215	310
	81 Benzo(b)fluoranthene	252	14.562	14.568	(0.955)	1522518	19.1048	1500
	82 Benzo(k)fluoranthene	252	14.603	14.615	(0.958)	595722	6.97197	530
	83 Benzo(a)pyrene	252	15.144	15.151	(0.993)	1016999	16.6486	1300
	84 Indeno(1,2,3-cd)pyrene	276	17.379	17.386	(1.140)	681248	17.1457	1300
	85 Dibenzo(a,h)anthracene	278	17.426	17.445	(1.143)	147546	3.50480	270
	86 Benzo(g,h,i)perylene	276	17.932	17.945	(1.176)	659197	15.8212	1200

QC Flag Legend

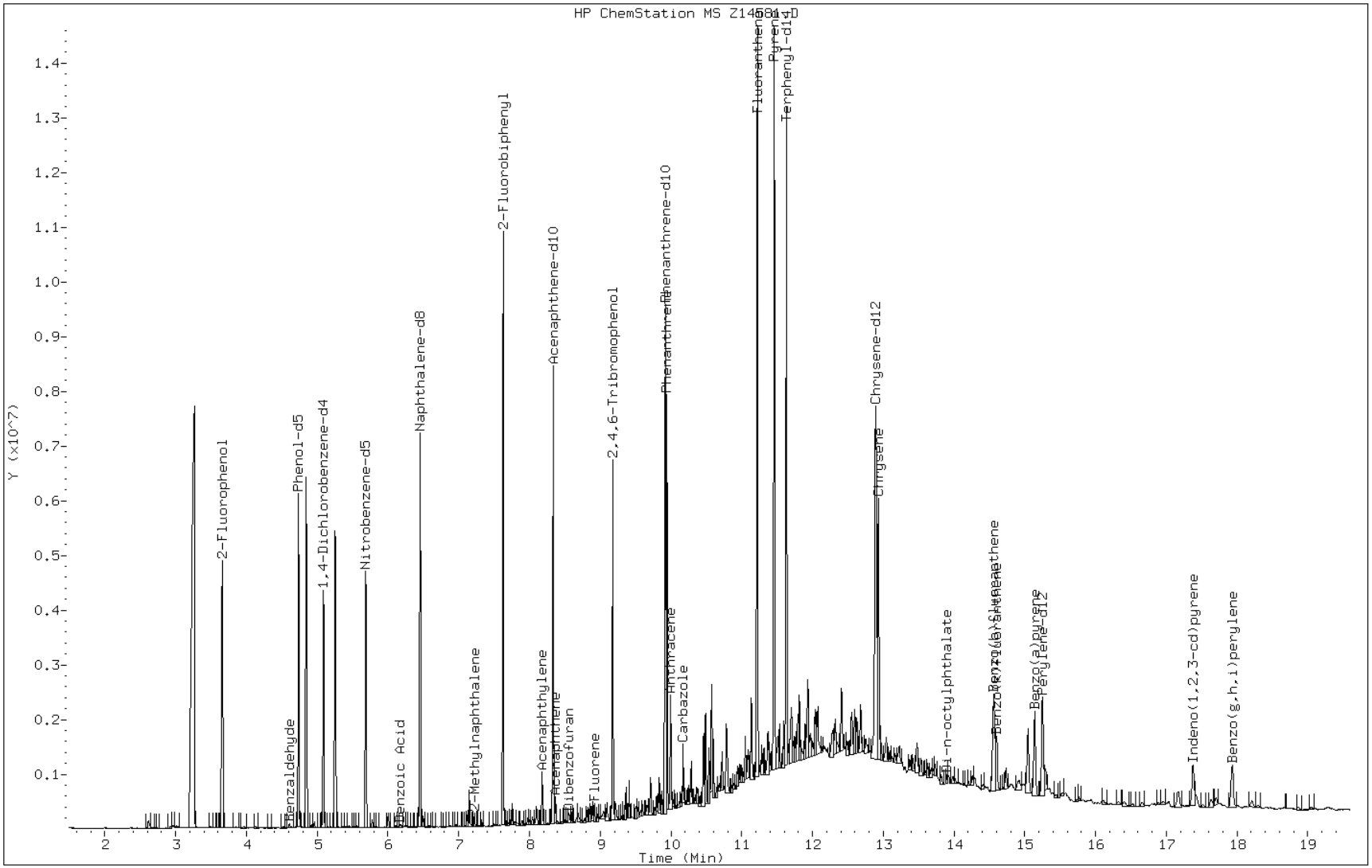
H - Operator selected an alternate compound hit.

Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas



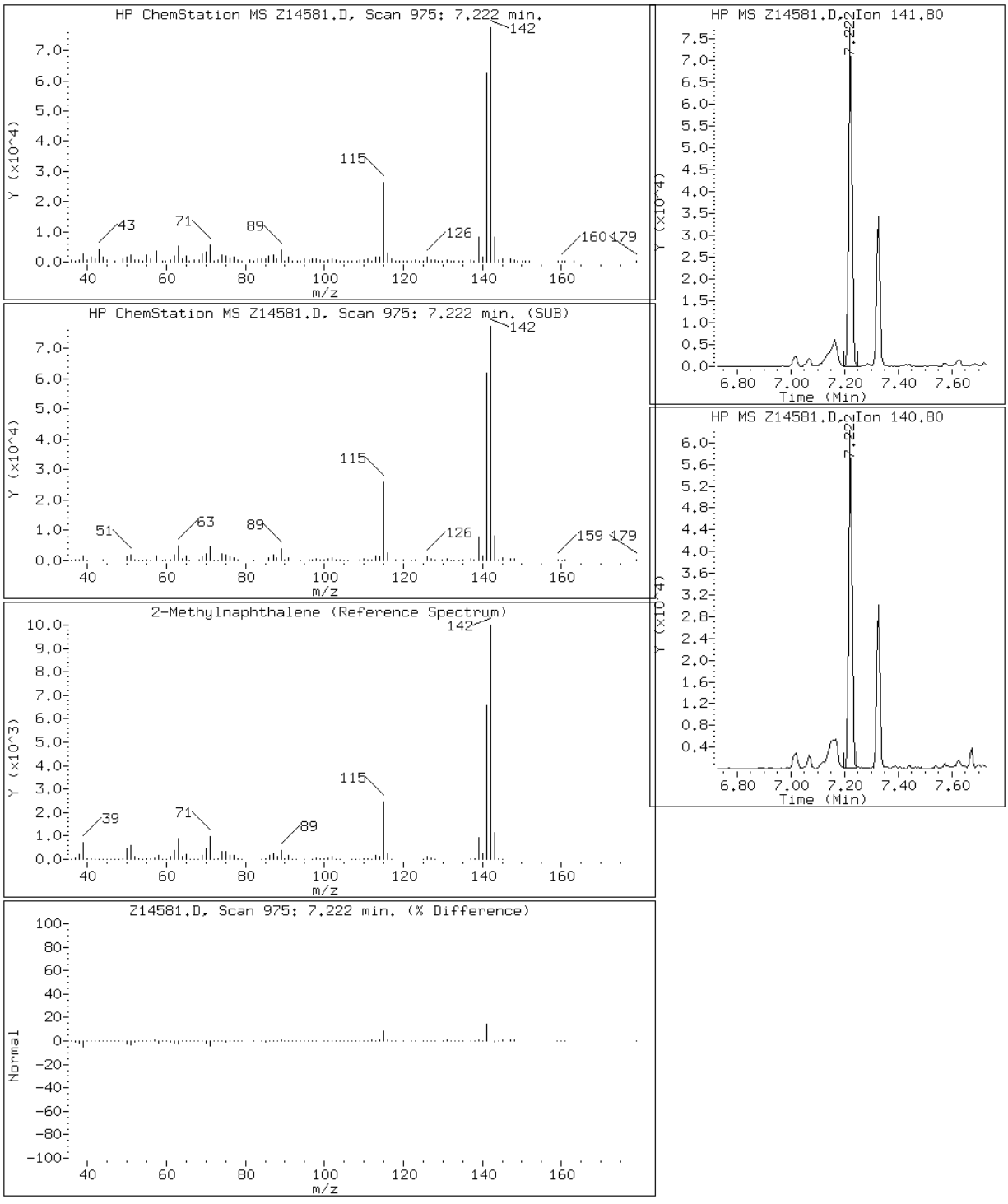
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

34 2-Methylnaphthalene



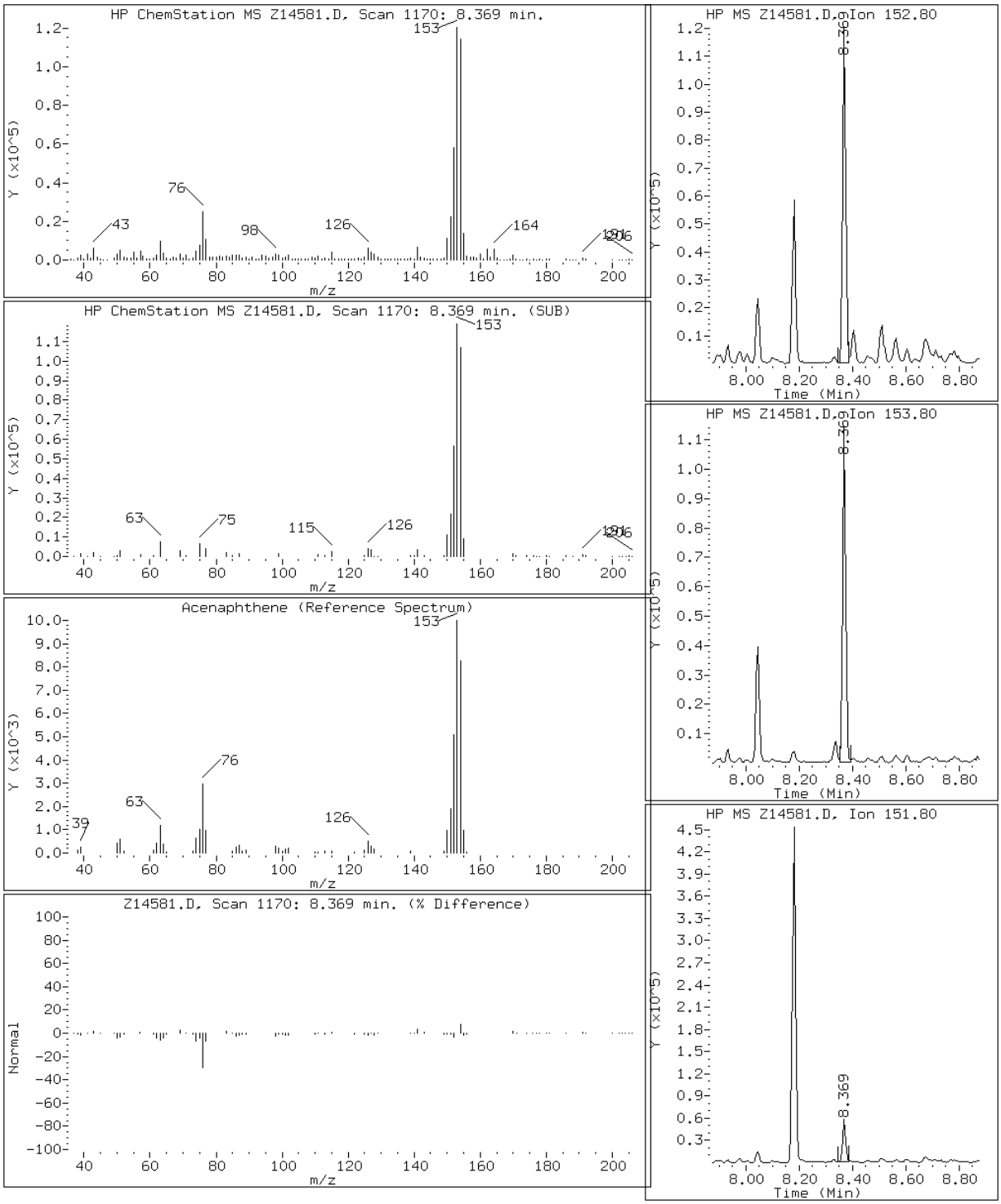
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

46 Acenaphthene



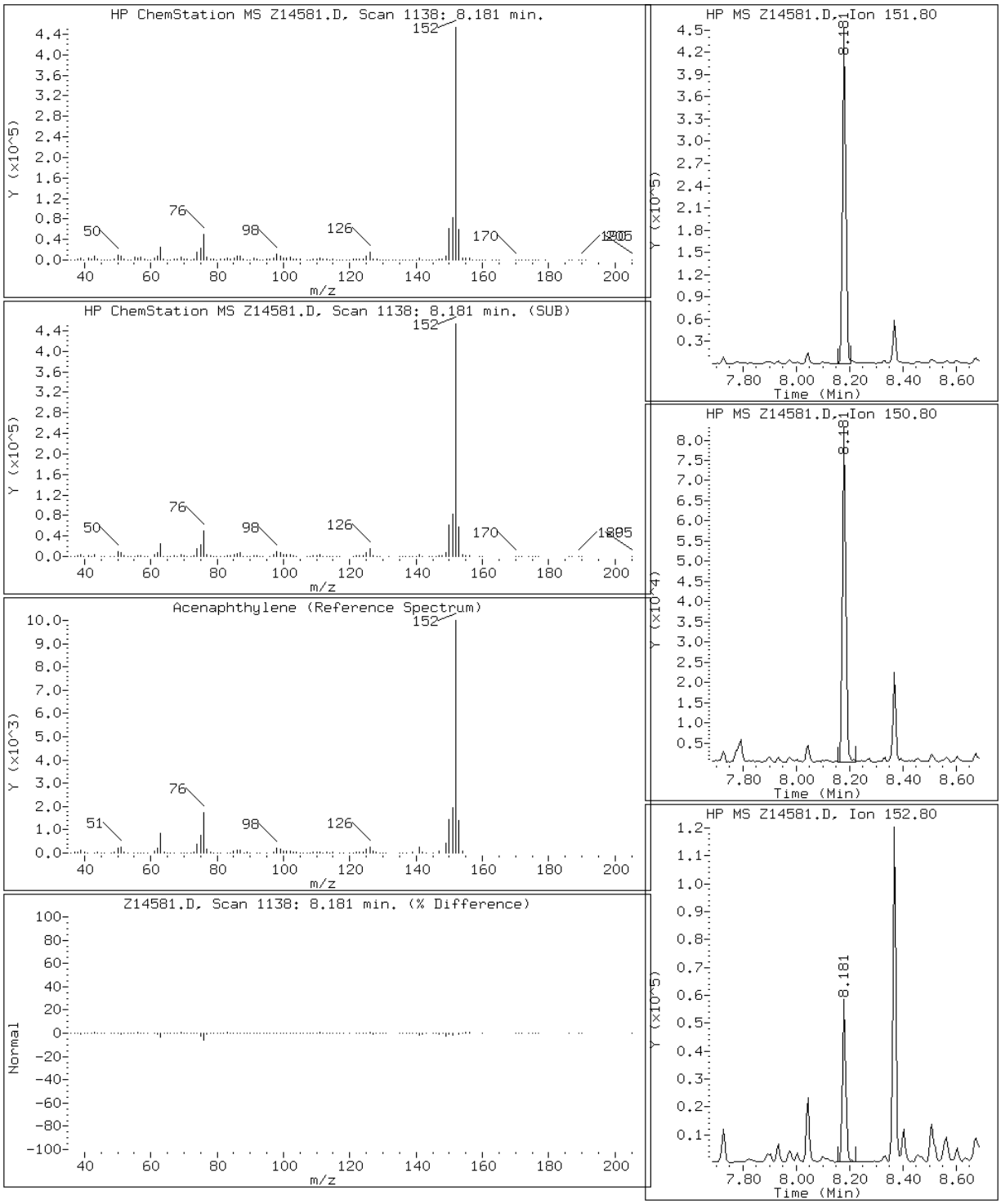
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

43 Acenaphthylene



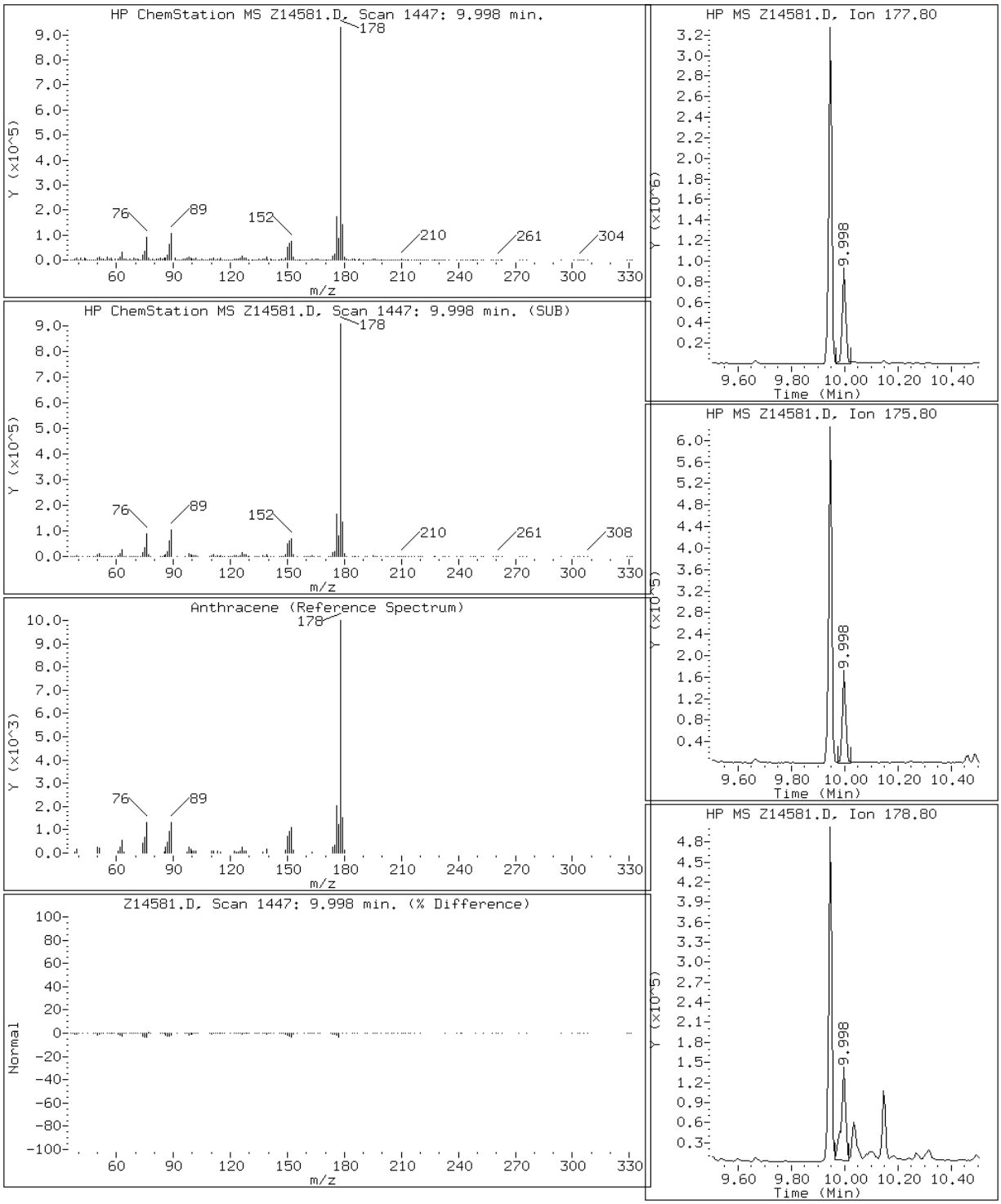
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

66 Anthracene



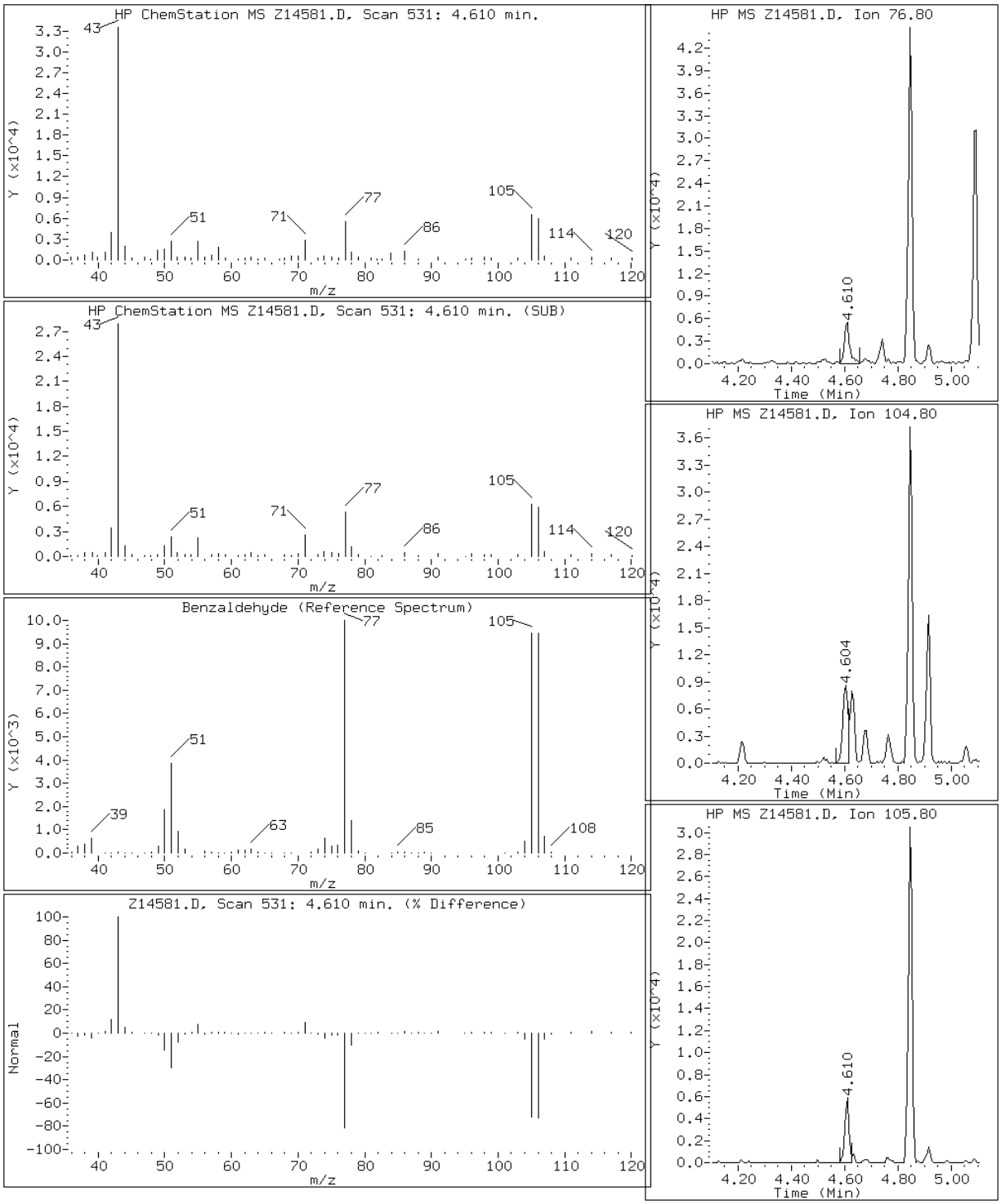
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

128 Benzaldehyde



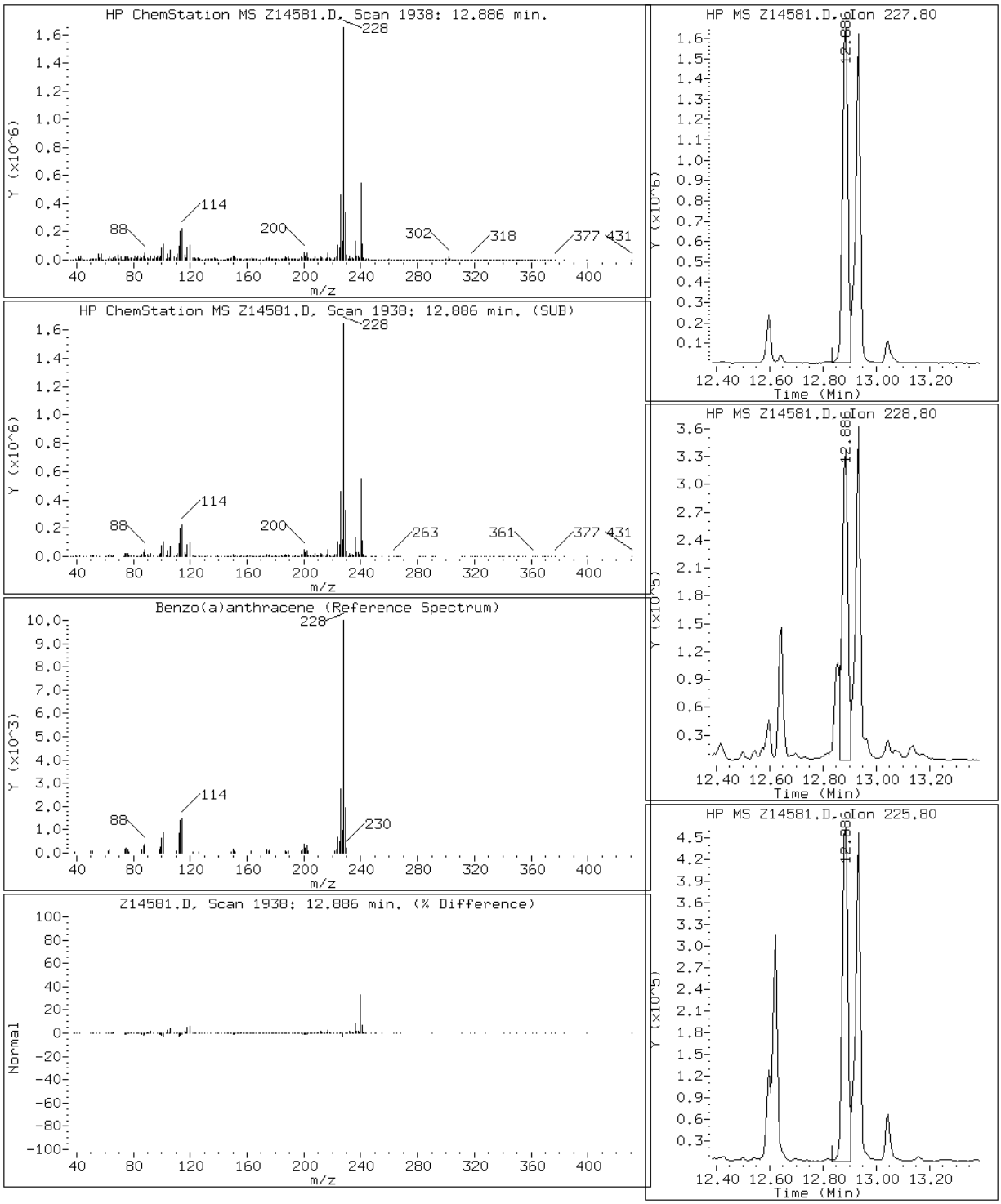
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

76 Benzo(a)anthracene



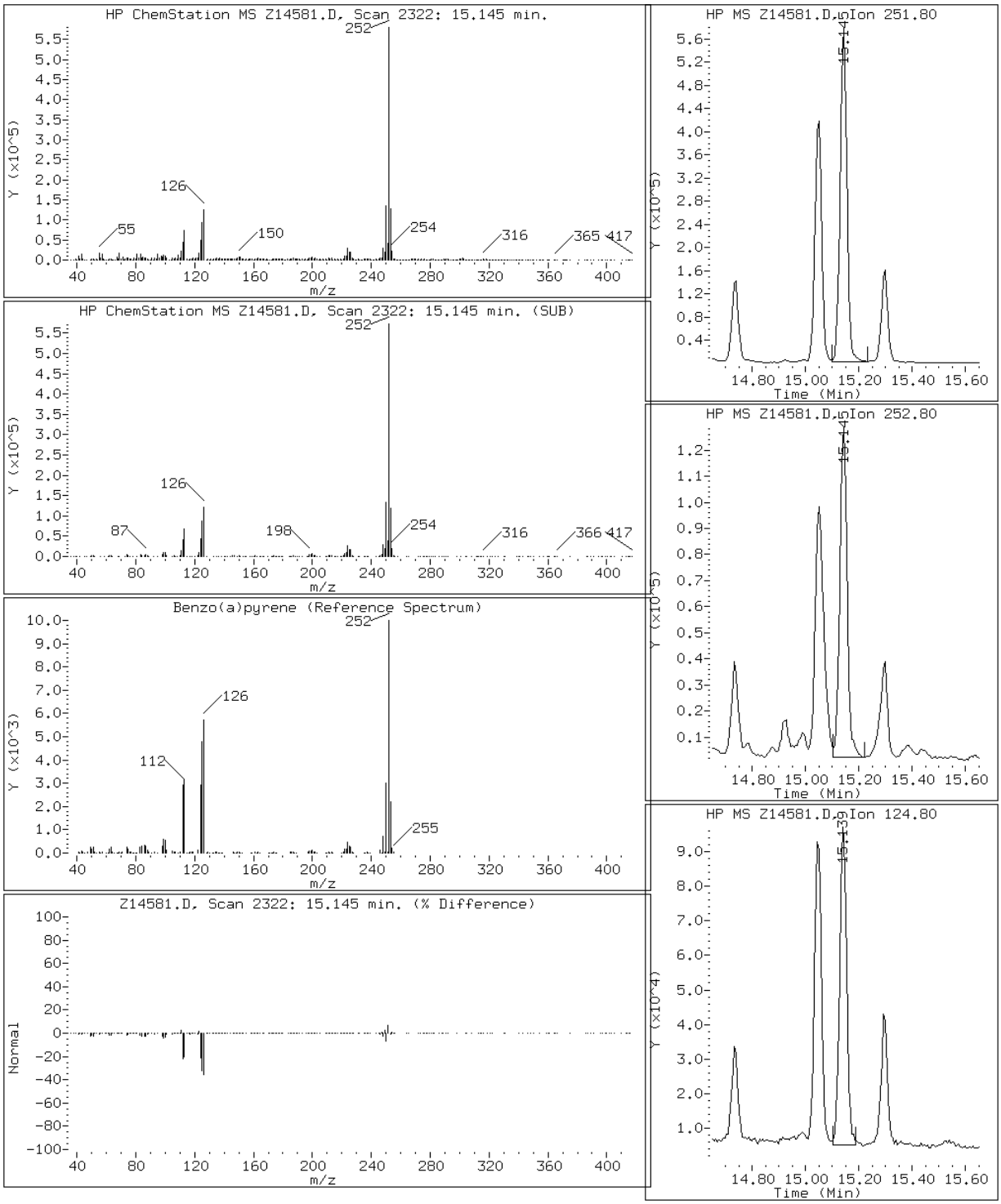
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

83 Benzo(a)pyrene



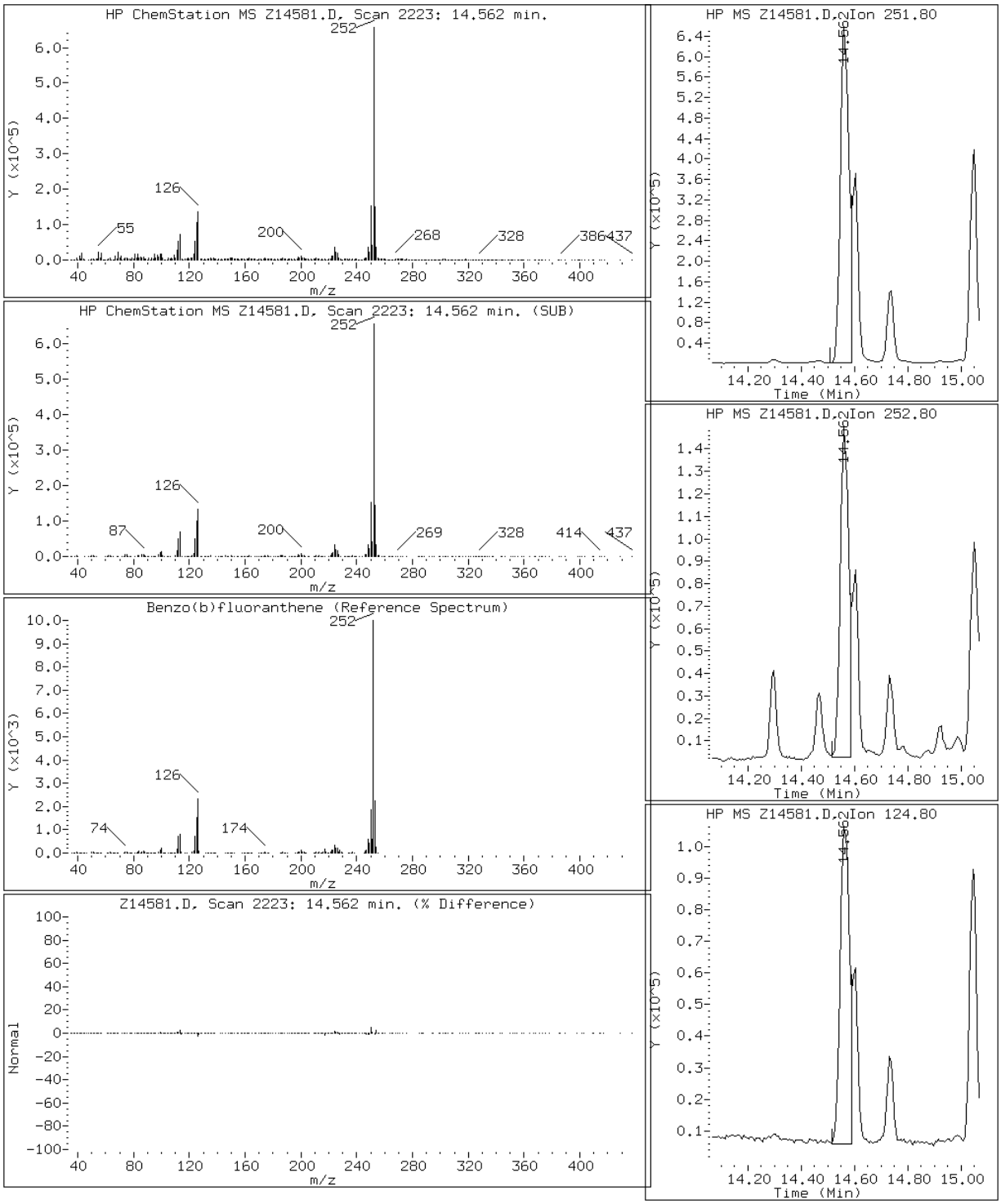
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

81 Benzo(b)fluoranthene



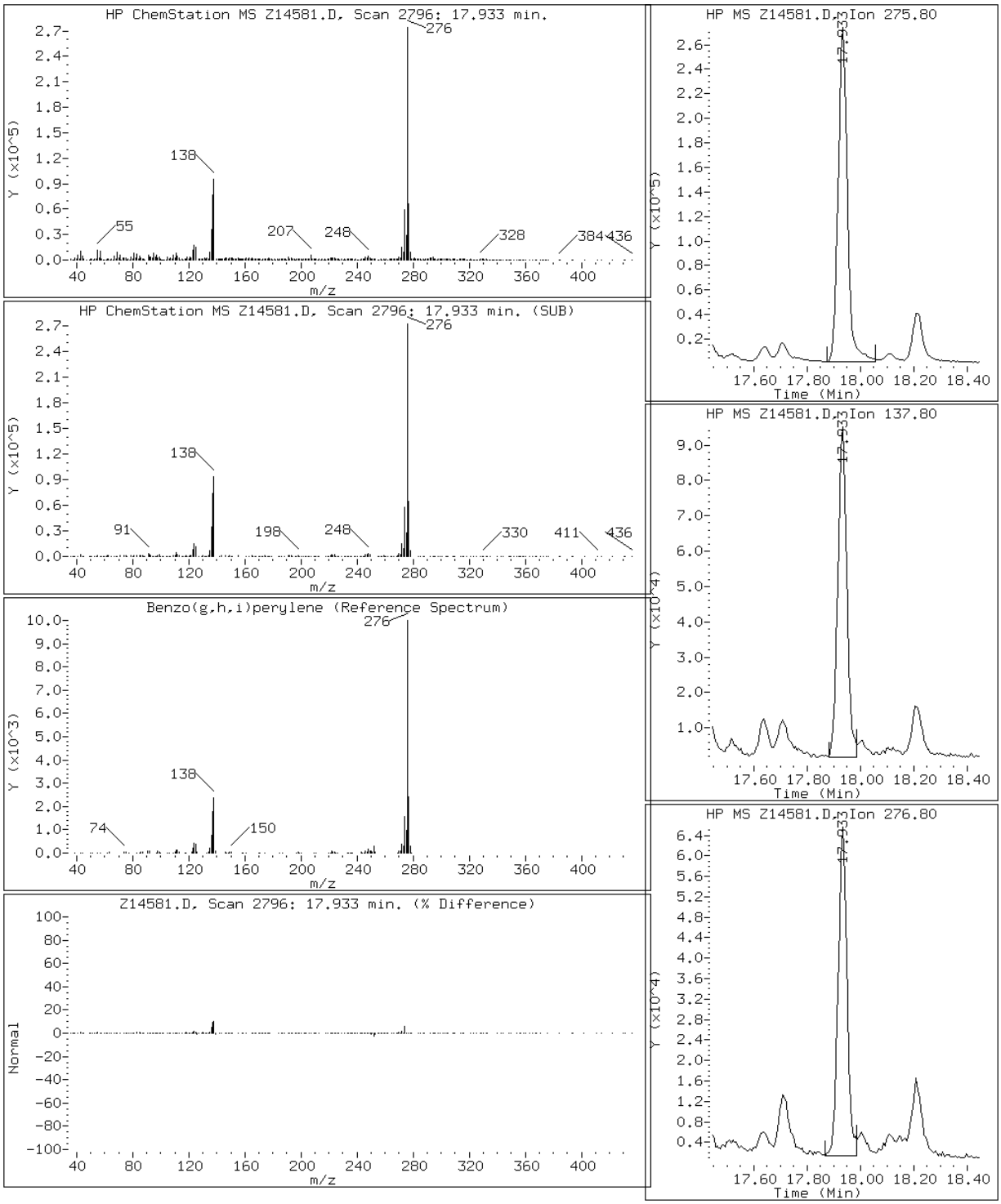
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

86 Benzo(g,h,i)perylene



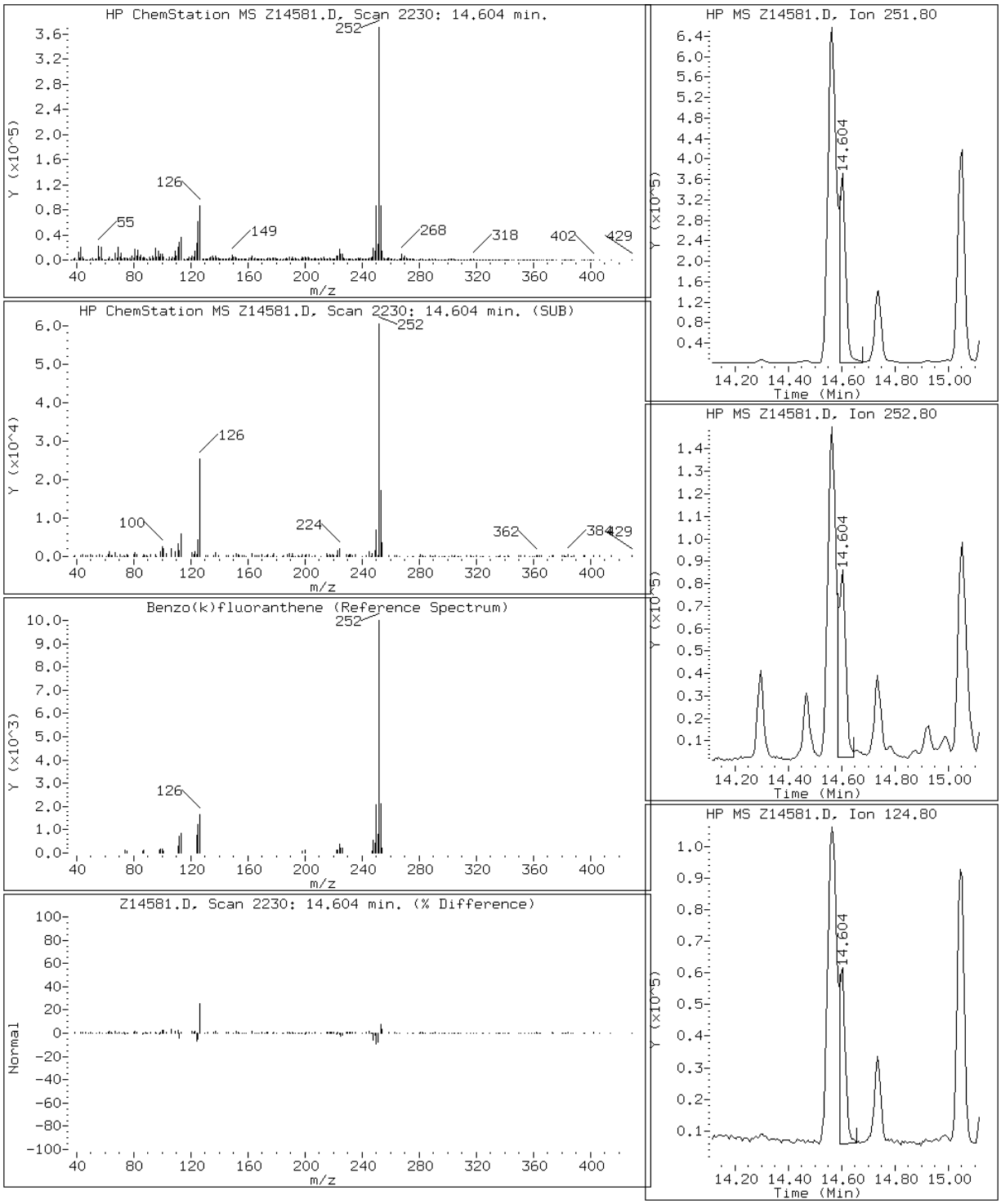
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

82 Benzo(k)fluoranthene



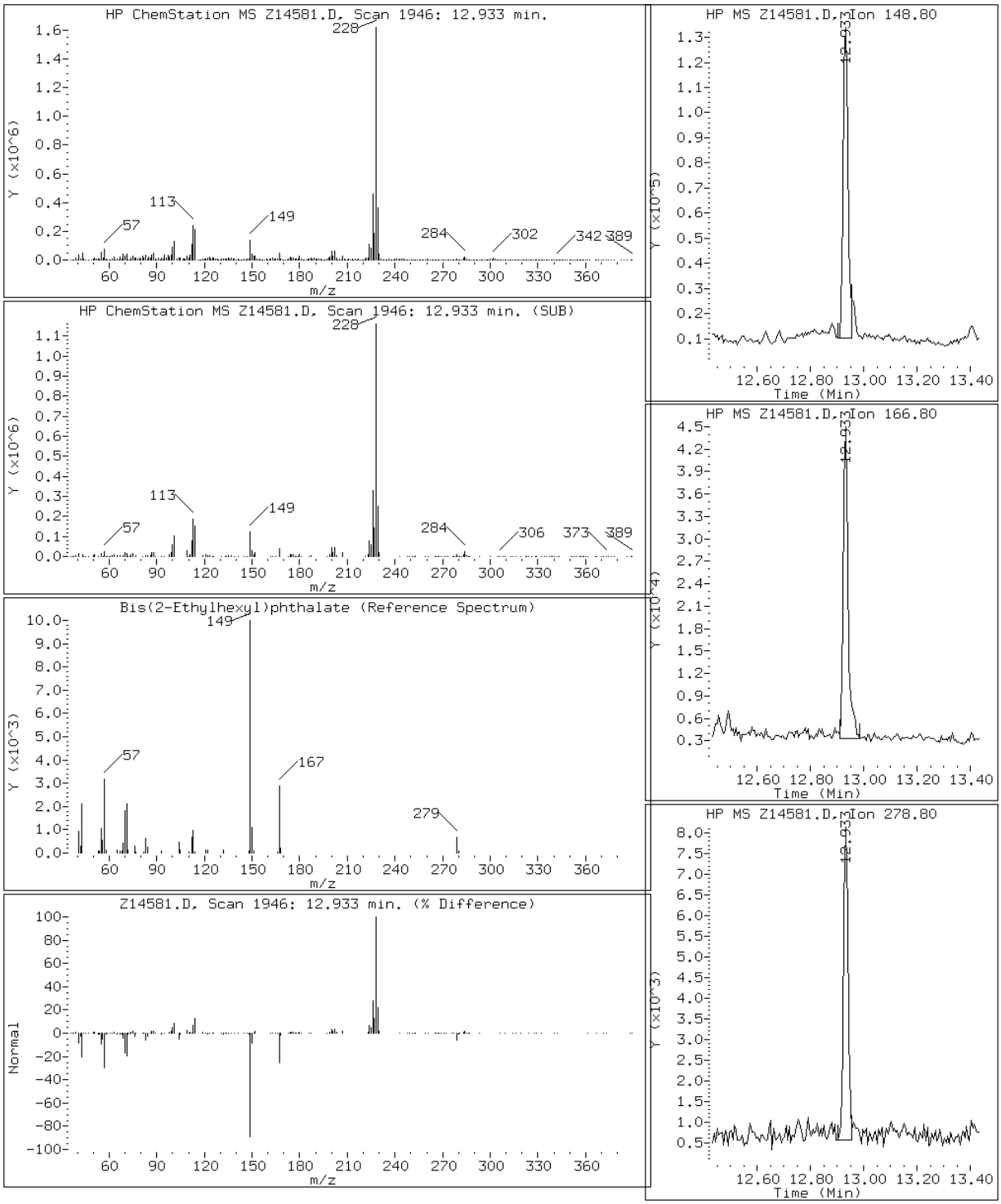
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



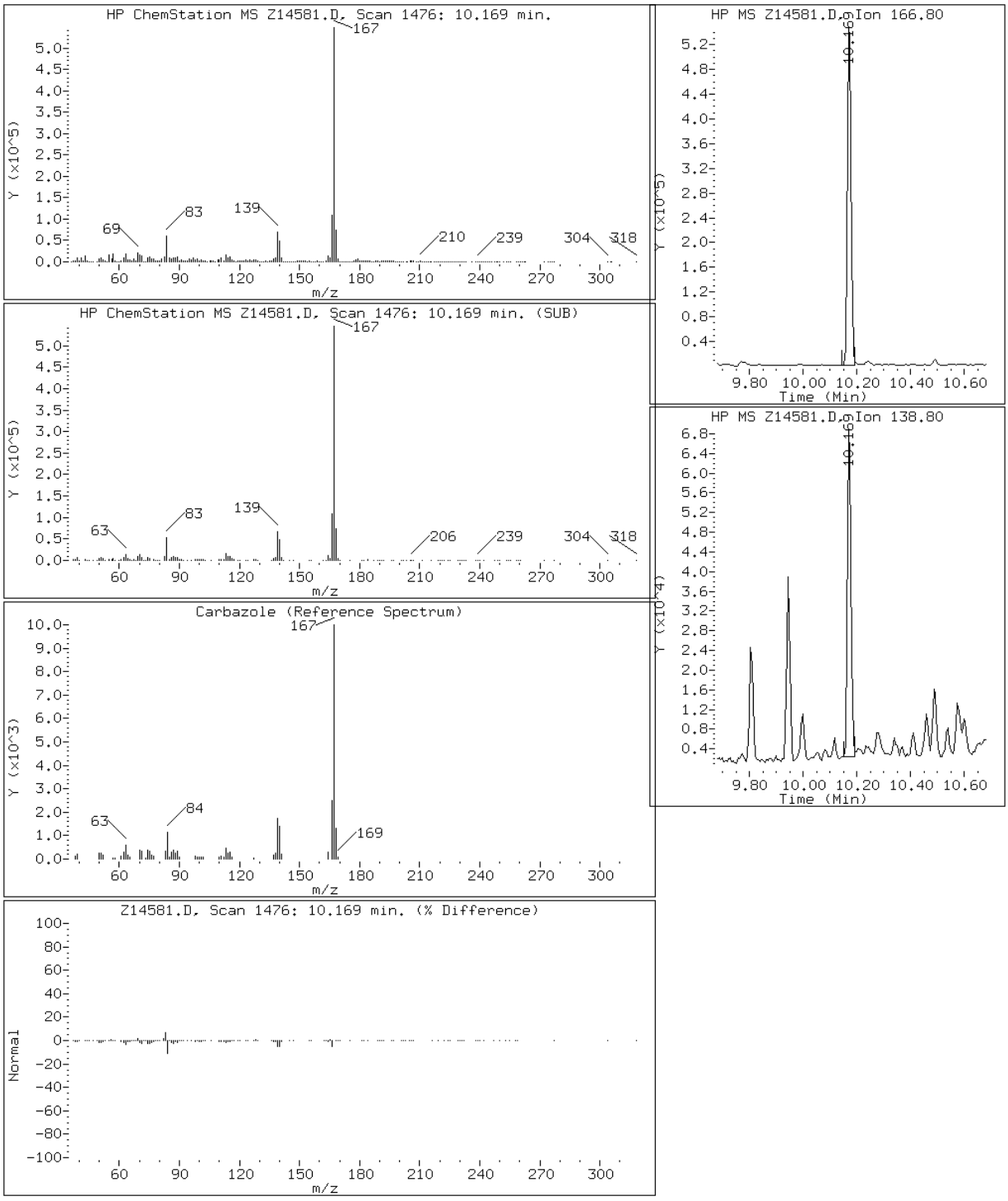
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

65 Carbazole



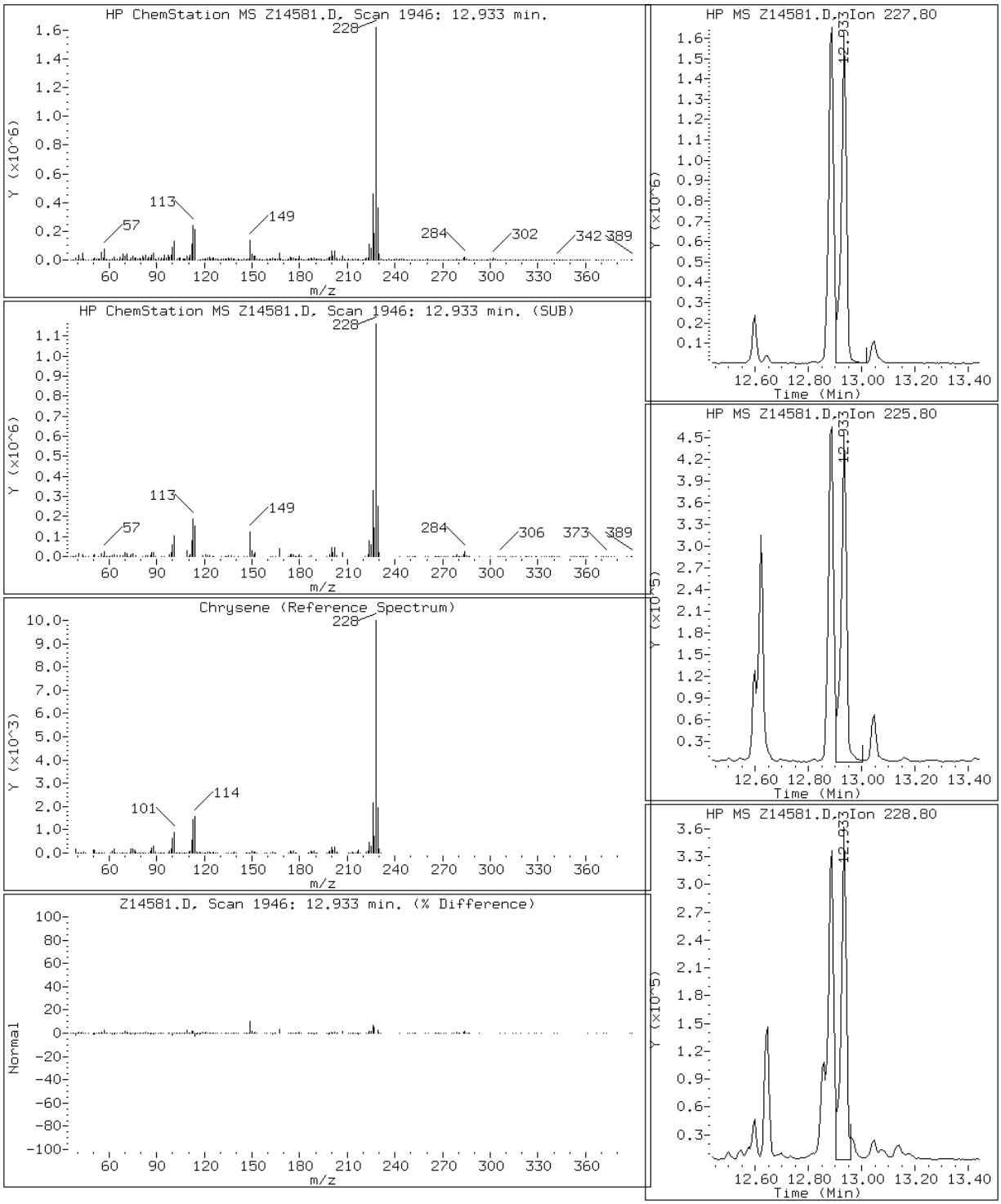
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

77 Chrysene



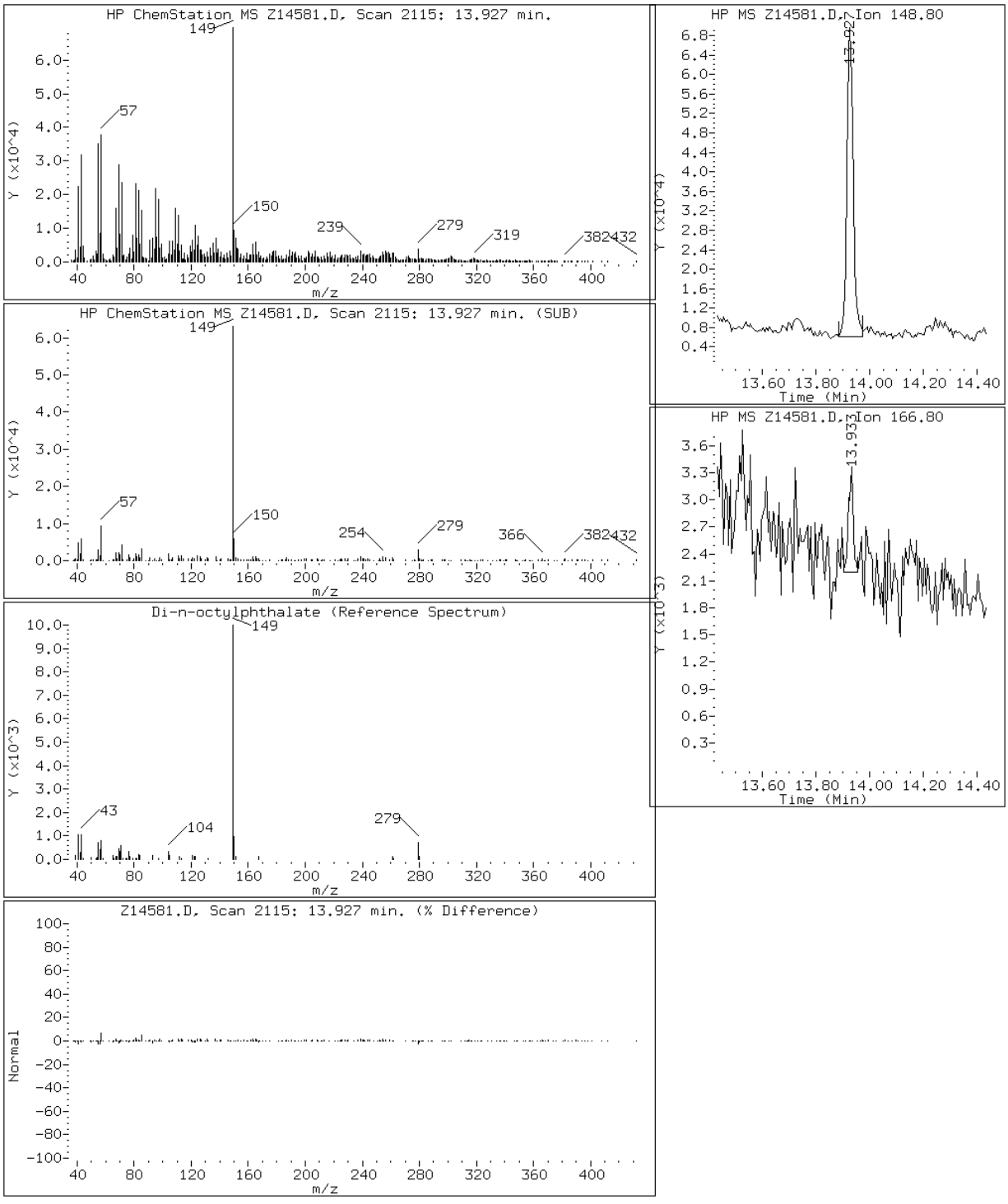
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

80 Di-n-octylphthalate



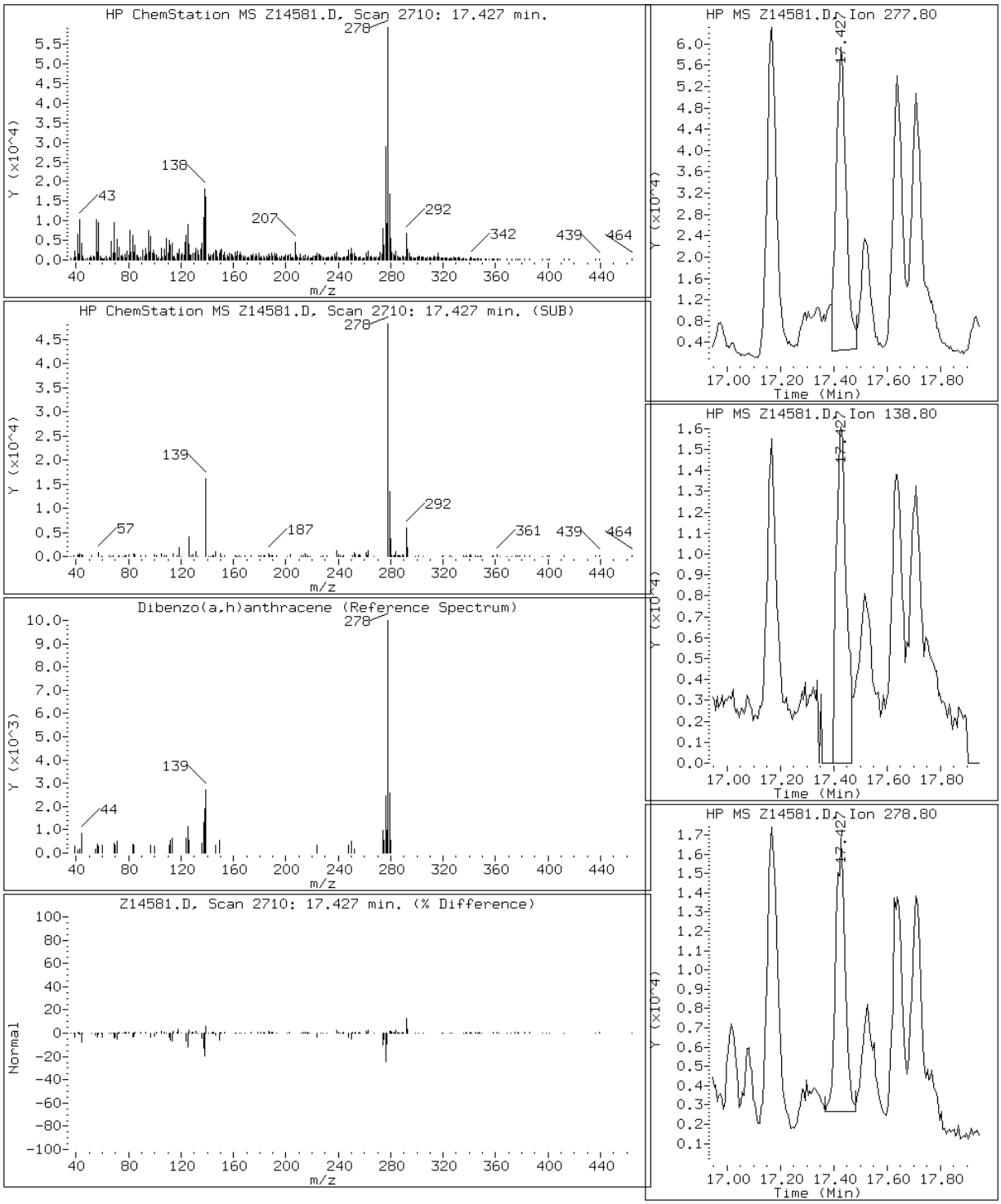
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

85 Dibenzo(a,h)anthracene



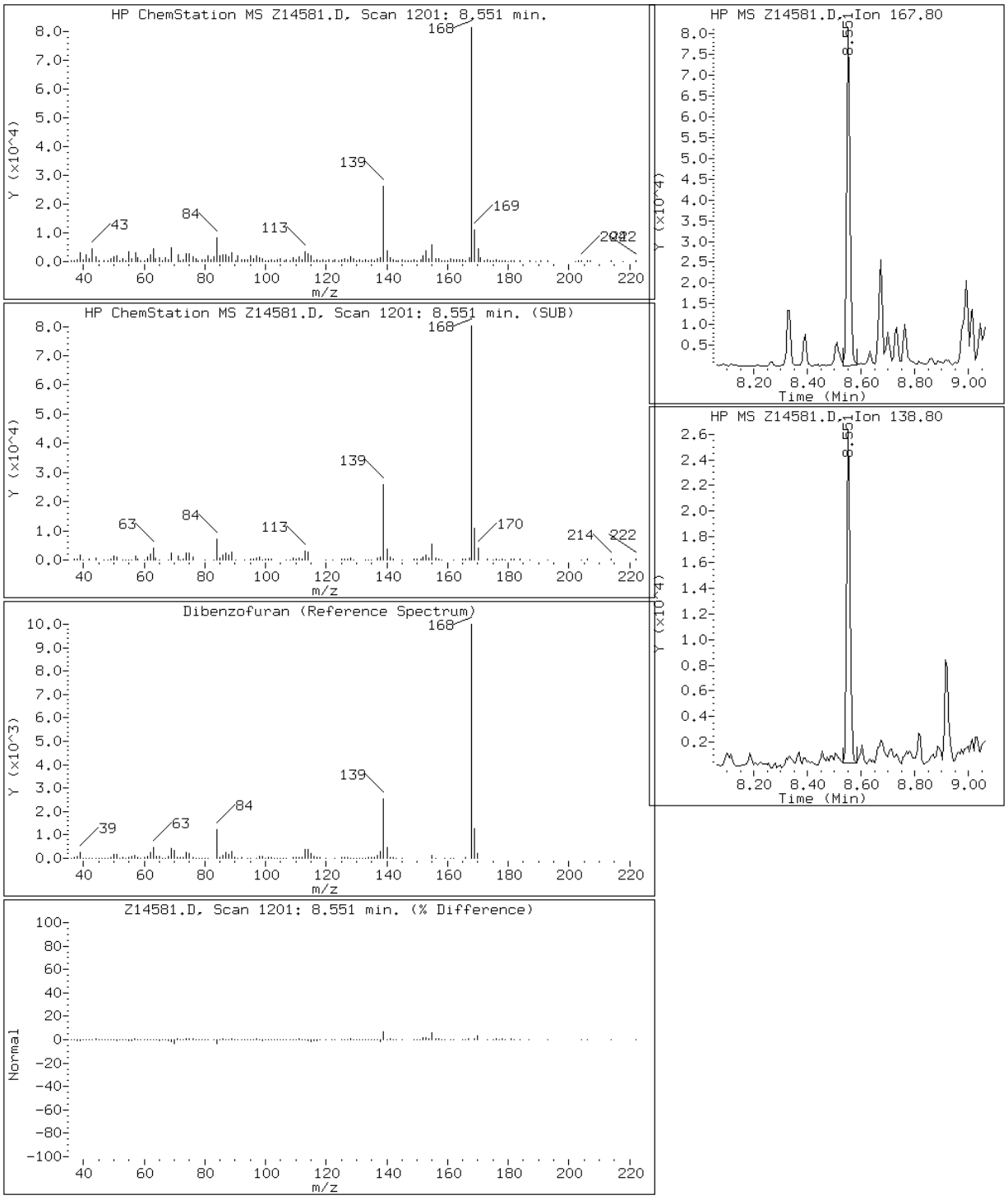
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

49 Dibenzofuran



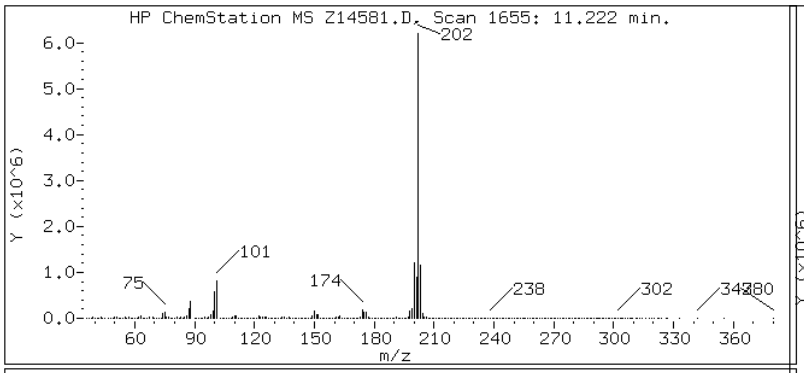
Data File: Z14581.D

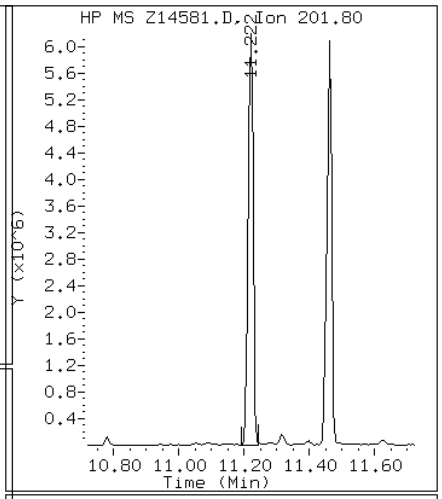
Date: 21-DEC-2009 17:30

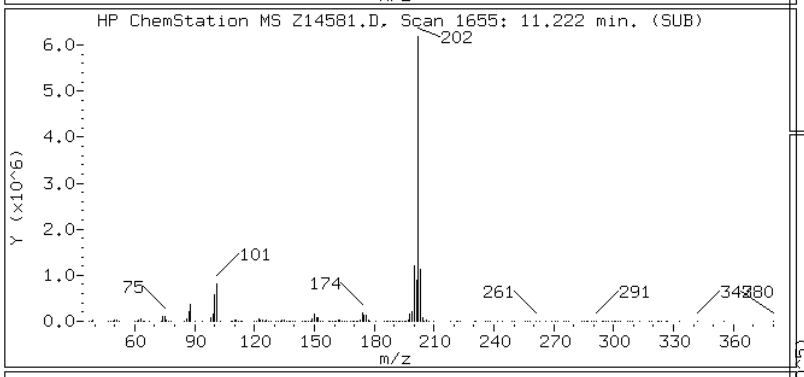
Client ID: PBL-5-2-W(7') Instrument: msz.i

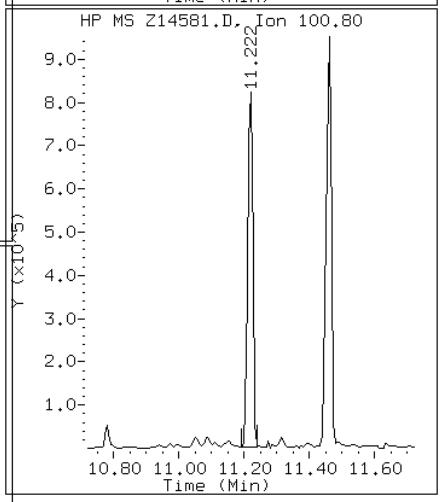
Sample Info: 220-11066-A-2-A Operator: S.Jonas

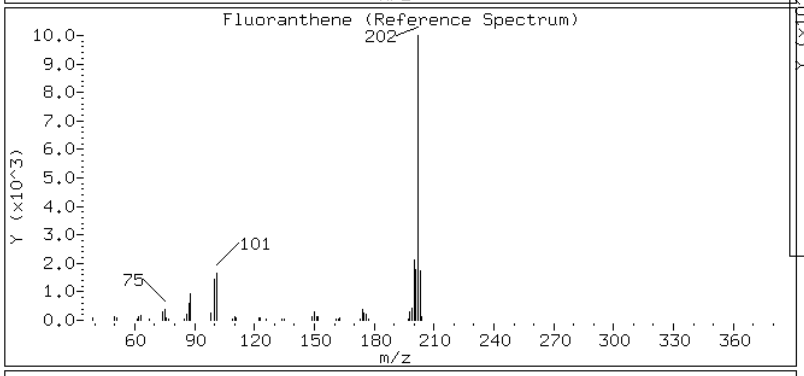
68 Fluoranthene

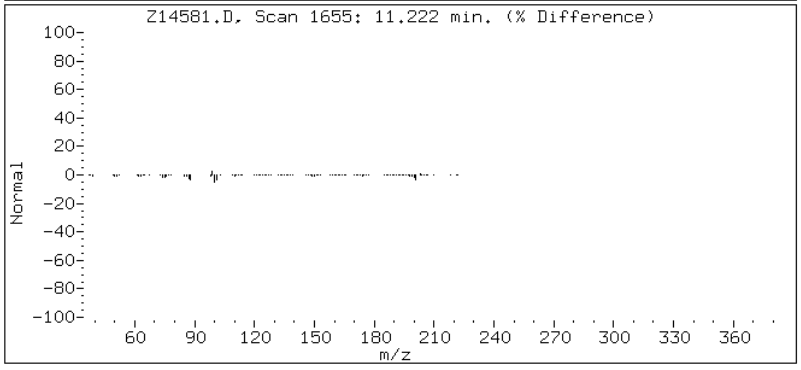












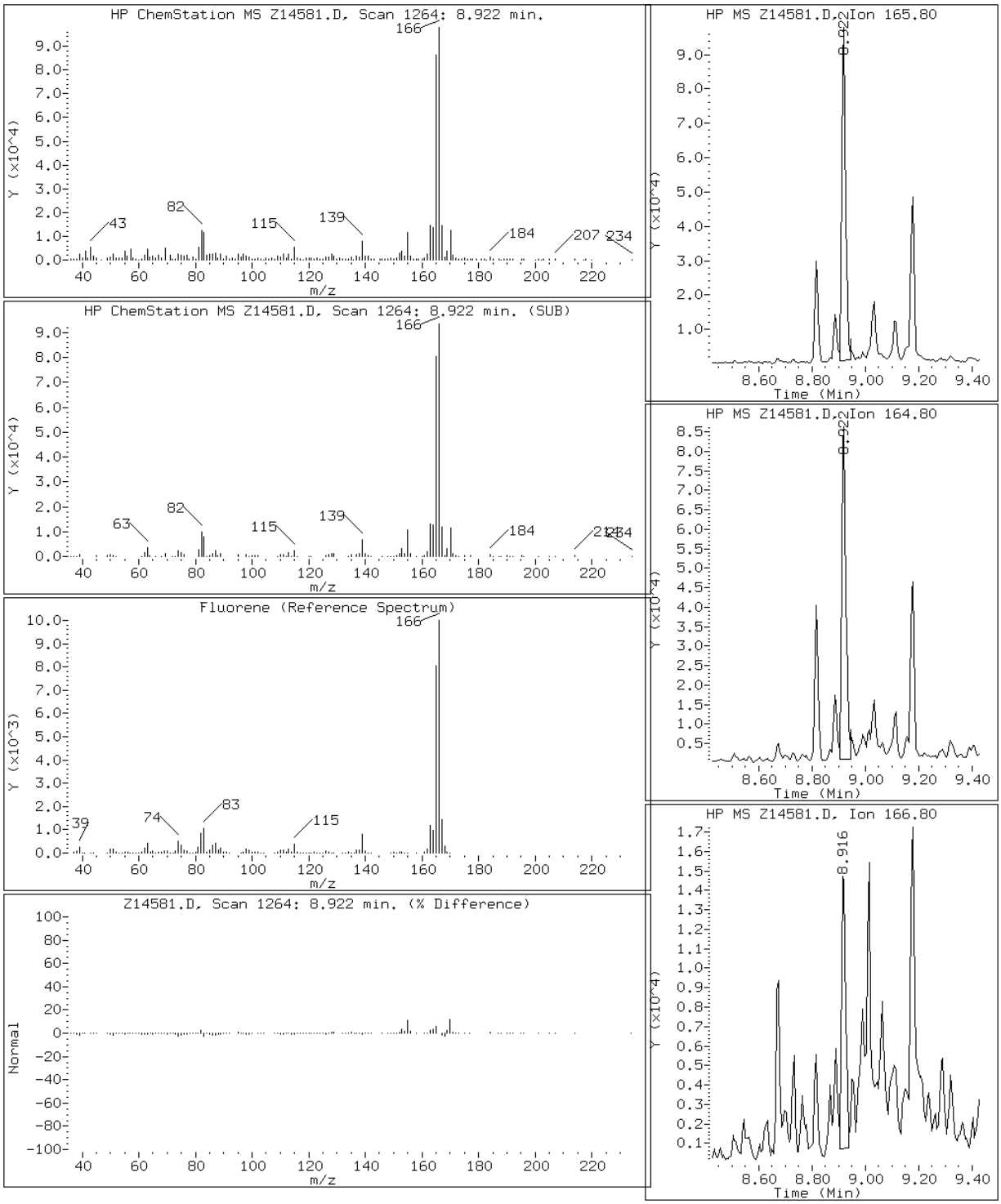
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

52 Fluorene



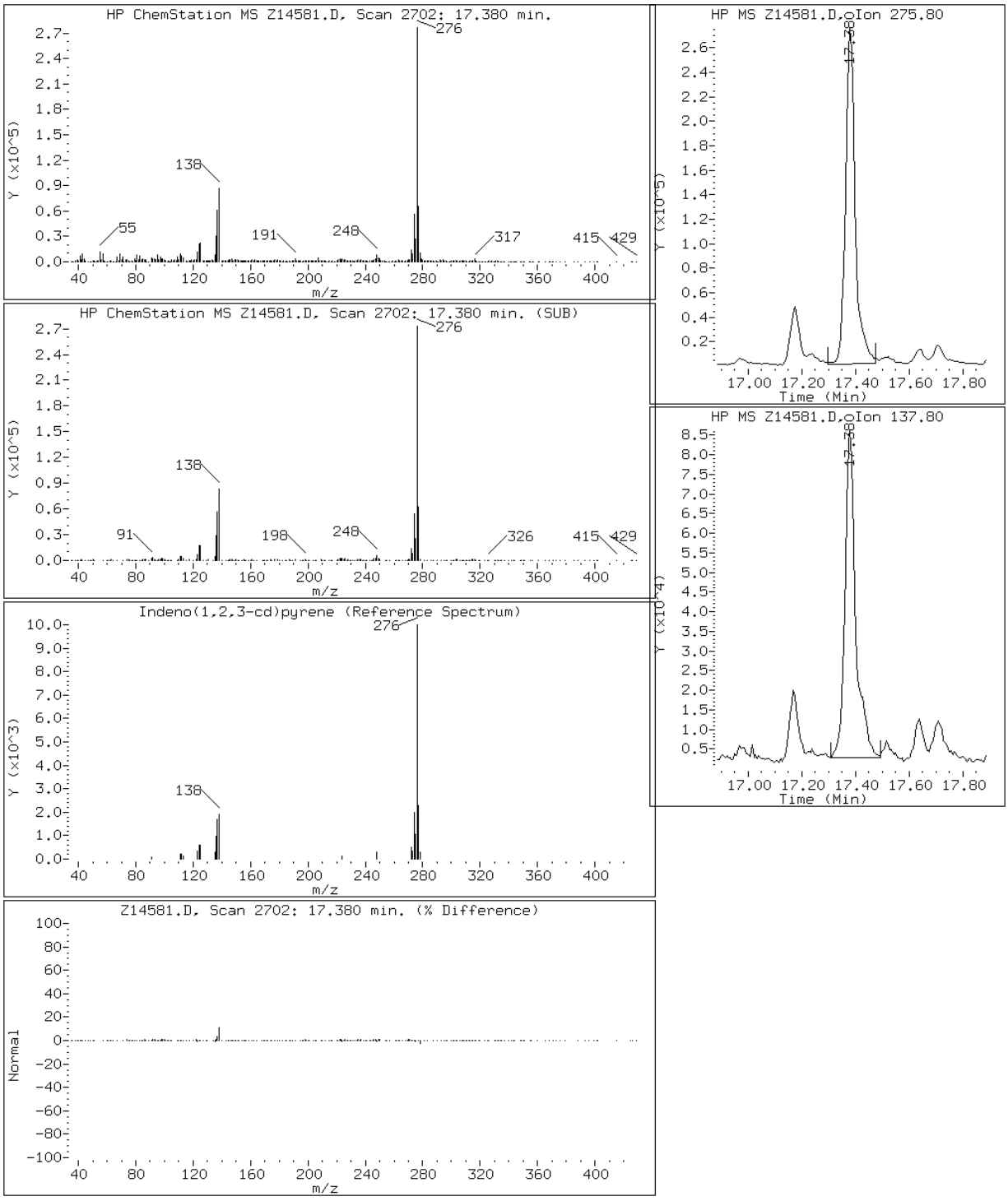
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



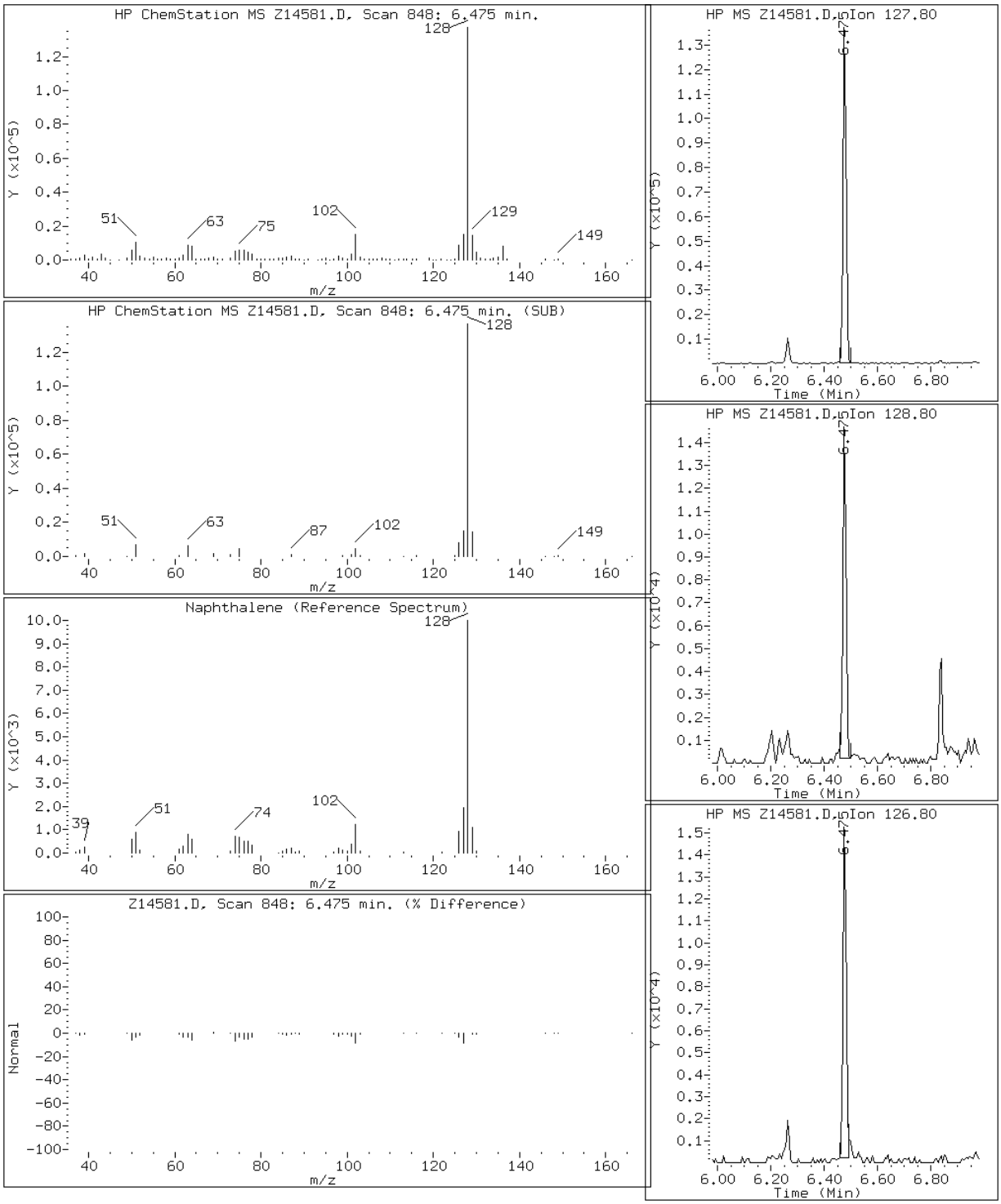
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

30 Naphthalene



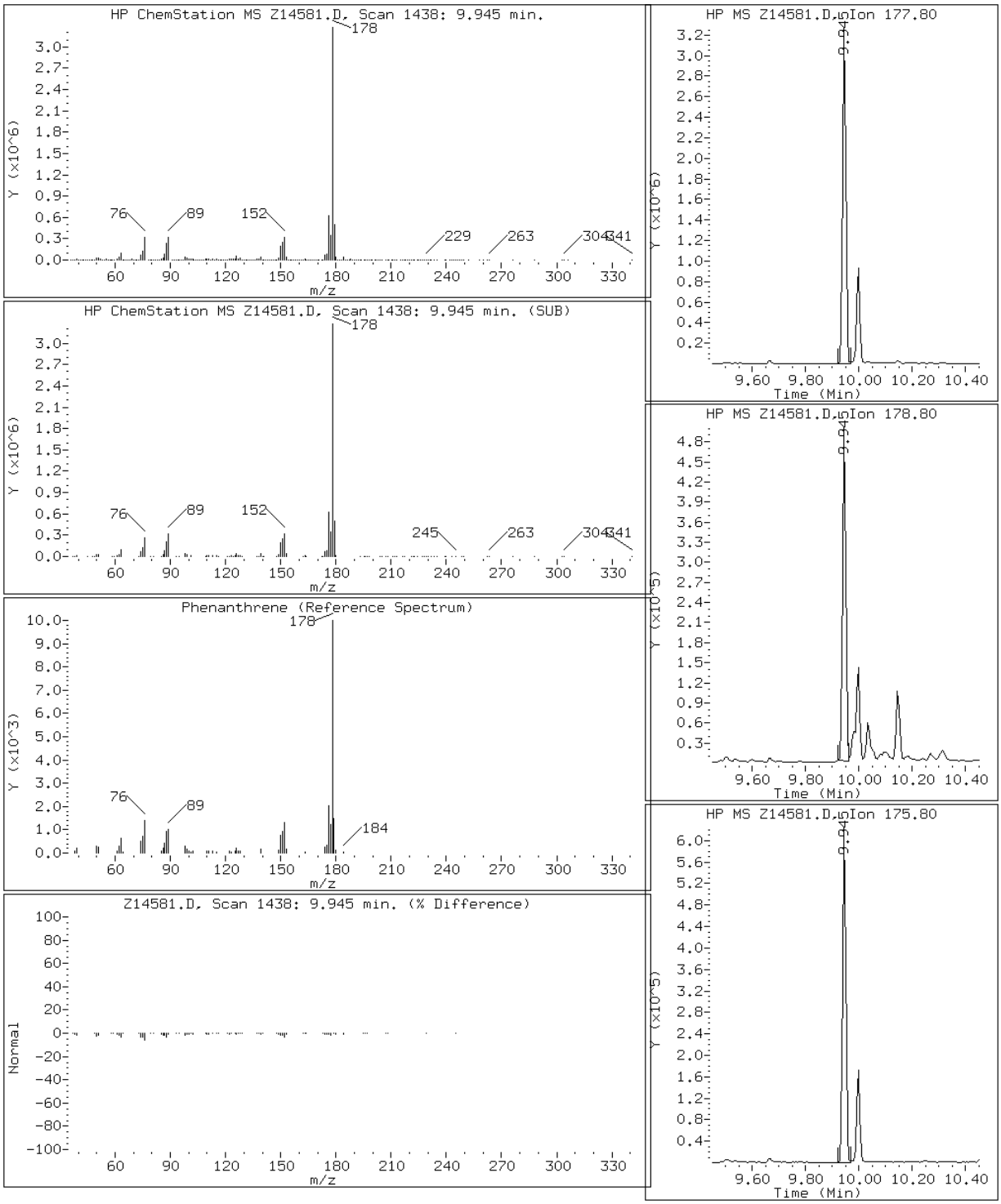
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

64 Phenanthrene



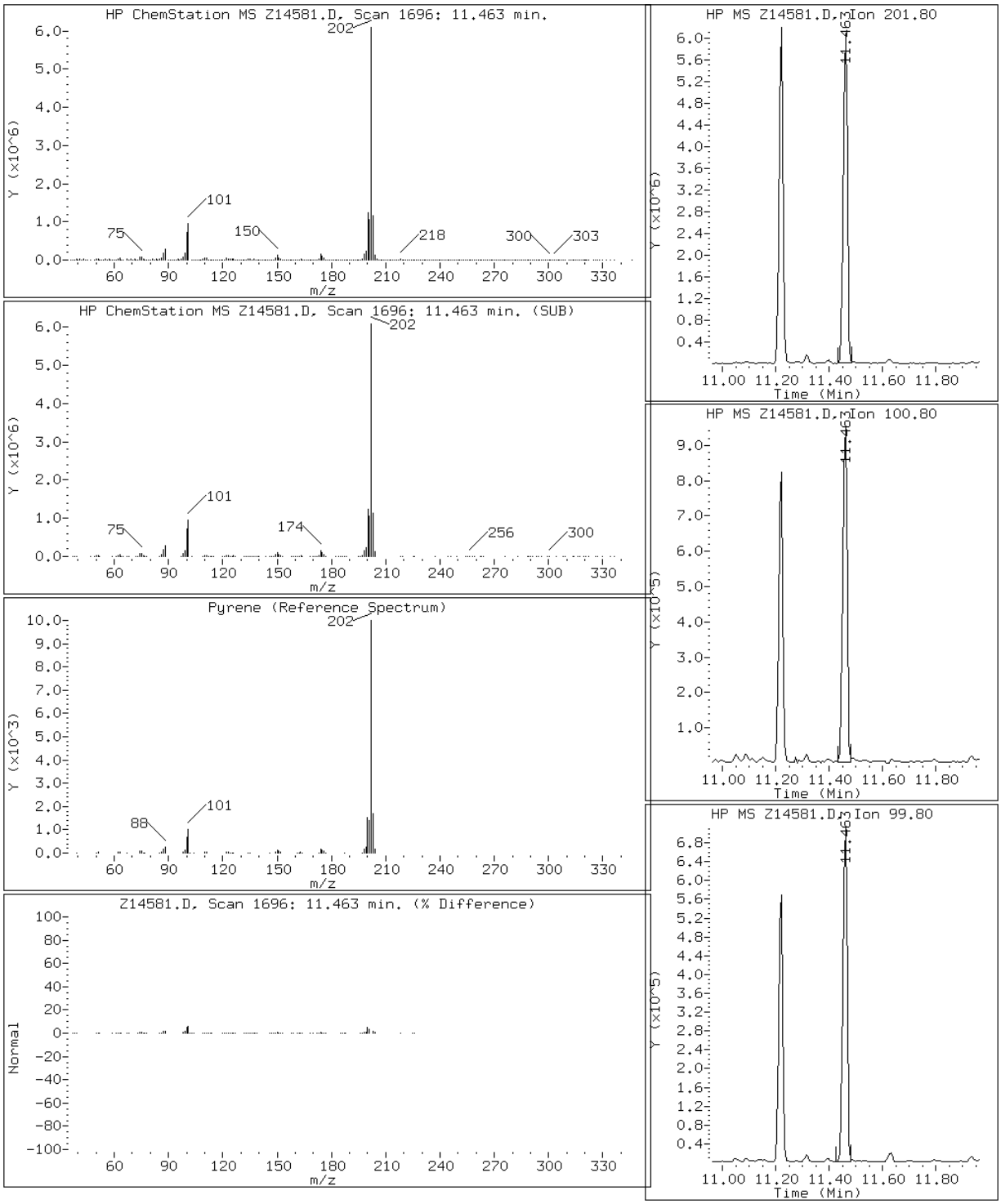
Data File: Z14581.D

Date: 21-DEC-2009 17:30

Client ID: PBL-5-2-W(7') Instrument: msz.i

Sample Info: 220-11066-A-2-A Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-5-N(6') | Lab Sample ID: 220-11066-3

Matrix: Solid | Lab File ID: Z14582.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:35

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.18(g) | Date Analyzed: 12/21/2009 17:58

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	310	U	310	20
95-95-4	2,4,5-Trichlorophenol	1900	U	1900	15
88-06-2	2,4,6-Trichlorophenol	310	U	310	8.4
120-83-2	2,4-Dichlorophenol	310	U	310	16
105-67-9	2,4-Dimethylphenol	310	U	310	15
121-14-2	2,4-Dinitrotoluene	310	U	310	24
51-28-5	2,4-Dinitrophenol	1900	U	1900	92
606-20-2	2,6-Dinitrotoluene	310	U	310	9.0
91-58-7	2-Chloronaphthalene	310	U	310	13
95-57-8	2-Chlorophenol	310	U	310	18
91-57-6	2-Methylnaphthalene	39	J	310	8.8
95-48-7	2-Methylphenol	310	U	310	18
88-74-4	2-Nitroaniline	760	U	760	19
88-75-5	2-Nitrophenol	310	U	310	19
91-94-1	3,3'-Dichlorobenzidine	380	U	380	63
99-09-2	3-Nitroaniline	760	U	760	9.8
534-52-1	4,6-Dinitro-2-methylphenol	1900	U	1900	130
101-55-3	4-Bromophenyl phenyl ether	310	U	310	20
59-50-7	4-Chloro-3-methylphenol	310	U	310	13
106-47-8	4-Chloroaniline	310	U	310	50
7005-72-3	4-Chlorophenyl phenyl ether	310	U	310	23
106-44-5	4-Methylphenol	310	U	310	20
100-01-6	4-Nitroaniline	310	U	310	24
100-02-7	4-Nitrophenol	1900	U	1900	23
83-32-9	Acenaphthene	310	U	310	18
208-96-8	Acenaphthylene	28	J	310	15
98-86-2	Acetophenone	310	U	310	16
120-12-7	Anthracene	310	U	310	12
1912-24-9	Atrazine	380	U	380	19
100-52-7	Benzaldehyde	310	U	310	51
56-55-3	Benzo[a]anthracene	310	U	310	11
50-32-8	Benzo[a]pyrene	19	J	310	8.3
205-99-2	Benzo[b]fluoranthene	270	J	310	8.2
191-24-2	Benzo[g,h,i]perylene	310	U	310	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-5-N(6') | Lab Sample ID: 220-11066-3

Matrix: Solid | Lab File ID: Z14582.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:35

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.18(g) | Date Analyzed: 12/21/2009 17:58

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	310	U	310	28
111-91-1	Bis(2-chloroethoxy)methane	310	U	310	14
111-44-4	Bis(2-chloroethyl)ether	310	U	310	16
117-81-7	Bis(2-ethylhexyl) phthalate	140	J B	310	30
85-68-7	Butyl benzyl phthalate	310	U	310	17
105-60-2	Caprolactam	310	U	310	24
86-74-8	Carbazole	310	U	310	17
218-01-9	Chrysene	310	U	310	23
84-74-2	Di-n-butyl phthalate	310	U	310	45
117-84-0	Di-n-octyl phthalate	310	U	310	17
53-70-3	Dibenz(a,h)anthracene	310	U	310	24
132-64-9	Dibenzofuran	310	U	310	22
84-66-2	Diethyl phthalate	310	U	310	31
131-11-3	Dimethyl phthalate	310	U	310	18
206-44-0	Fluoranthene	42	J	310	15
86-73-7	Fluorene	310	U	310	18
118-74-1	Hexachlorobenzene	310	U	310	21
87-68-3	Hexachlorobutadiene	310	U	310	24
77-47-4	Hexachlorocyclopentadiene	760	U	760	140
67-72-1	Hexachloroethane	310	U	310	18
193-39-5	Indeno[1,2,3-cd]pyrene	310	U	310	20
78-59-1	Isophorone	310	U	310	17
621-64-7	N-Nitrosodi-n-propylamine	310	U	310	21
86-30-6	N-Nitrosodiphenylamine	310	U	310	17
91-20-3	Naphthalene	81	J	310	16
98-95-3	Nitrobenzene	310	U	310	20
87-86-5	Pentachlorophenol	760	U	760	190
85-01-8	Phenanthrene	50	J	310	15
108-95-2	Phenol	310	U	310	20
129-00-0	Pyrene	47	J	310	14
108-60-1	2,2'-oxybis[1-chloropropane]	310	U	310	16

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-5-N(6') | Lab Sample ID: 220-11066-3

Matrix: Solid | Lab File ID: Z14582.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:35

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.18(g) | Date Analyzed: 12/21/2009 17:58

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	57	37-120	
321-60-8	2-Fluorobiphenyl	56	41-120	
367-12-4	2-Fluorophenol	55	34-120	
4165-60-0	Nitrobenzene-d5	58	38-120	
4165-62-2	Phenol-d5	58	36-120	
1718-51-0	Terphenyl-d14	71	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14582.D
Lab Smp Id: 220-11066-A-3-A Client Smp ID: PBL-5-5-N(6')
Inj Date : 21-DEC-2009 17:58
Operator : S.Jonas Inst ID: msz.i
Smp Info : 220-11066-A-3-A
Misc Info : 220-11066-A-3-A
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.180	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	13.126	% Moisture
Cpnd Variable		Local Compound Variable

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/Kg)
*	1	1,4-Dichlorobenzene-d4	152	5.092	5.087	(1.000)	817228	20.0000	
$	2	2-Fluorophenol	112	3.663	3.634	(0.719)	2006731	41.2623	3100
$	3	Phenol-d5	99	4.745	4.734	(0.932)	2795448	43.3918	3300
*	20	Naphthalene-d8	136	6.456	6.457	(1.000)	3720217	20.0000	
$	21	Nitrobenzene-d5	82	5.692	5.693	(0.882)	1799481	29.1949	2200
	26	Benzoic Acid	122	6.174	6.281	(0.956)	7394	6.23614	470
	30	Naphthalene	128	6.474	6.481	(1.003)	200388	1.06589	81
	34	2-Methylnaphthalene	142	7.221	7.228	(1.118)	62969	0.50826	39
*	35	Acenaphthene-d10	164	8.339	8.339	(1.000)	2360742	20.0000	
$	40	2-Fluorobiphenyl	172	7.627	7.634	(0.915)	4020440	27.9189	2100
	43	Acenaphthylene	152	8.180	8.186	(0.981)	80011	0.37567	28
$	56	2,4,6-Tribromophenol	330	9.180	9.186	(1.101)	879414	42.8799	3300
*	57	Phenanthrene-d10	188	9.921	9.922	(1.000)	4022907	20.0000	
	64	Phenanthrene	178	9.944	9.951	(1.002)	135342	0.65342	50
	68	Fluoranthene	202	11.209	11.222	(1.130)	124095	0.55183	42
*	70	Chrysene-d12	240	12.891	12.904	(1.000)	2931300	20.0000	
	72	Pyrene	202	11.450	11.463	(0.888)	118790	0.61340	47
$	73	Terphenyl-d14	244	11.633	11.633	(0.902)	4365436	35.7069	2700

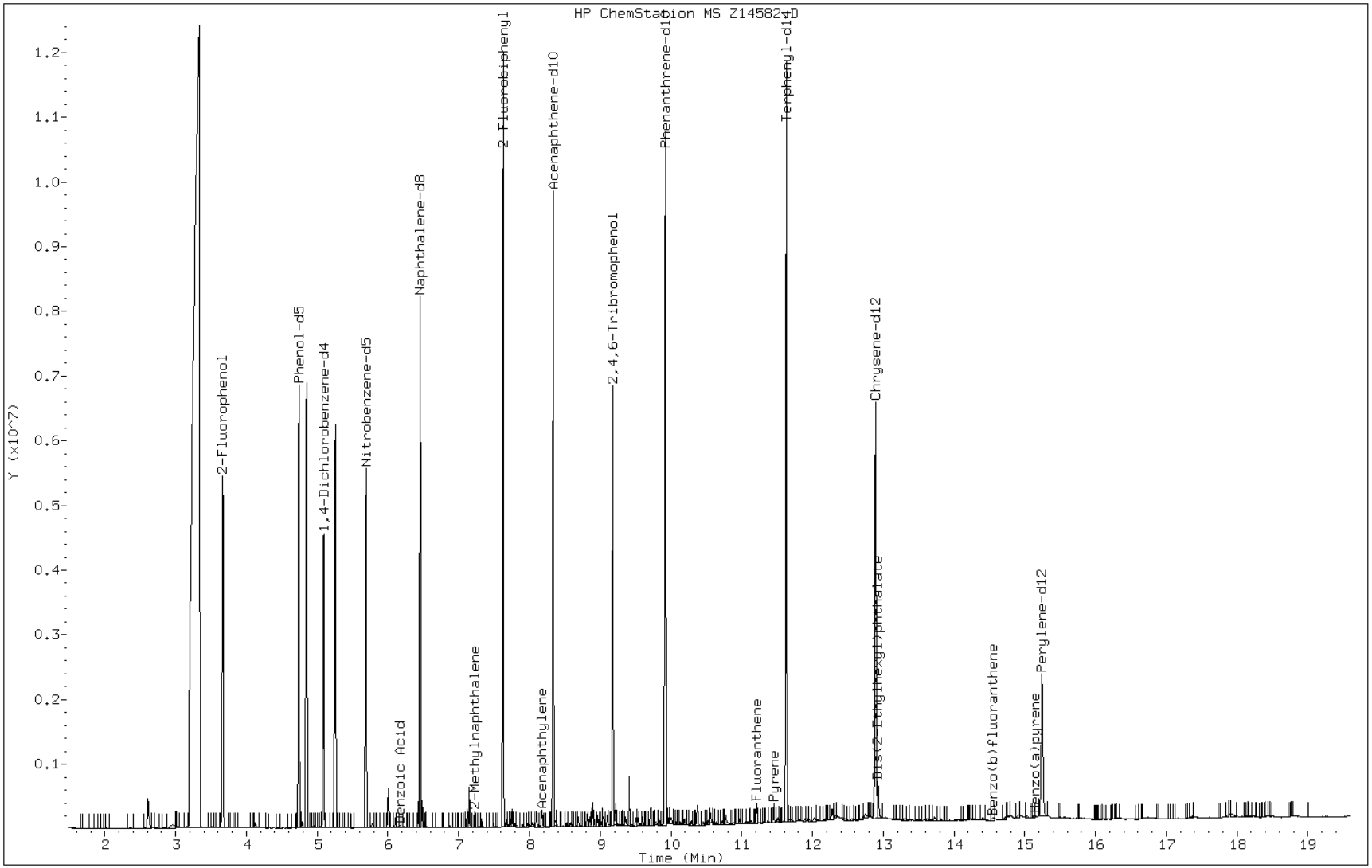
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
78	Bis(2-Ethylhexyl)phthalate	149	12.927	12.933	(1.003)	164538	1.91195	140
* 79	Perylene-d12	264	15.244	15.257	(1.000)	1204881	20.0000	
81	Benzo(b)fluoranthene	252	14.550	14.568	(0.954)	25828	3.62271	270
83	Benzo(a)pyrene	252	15.132	15.151	(0.993)	17537	0.24478	19

Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas



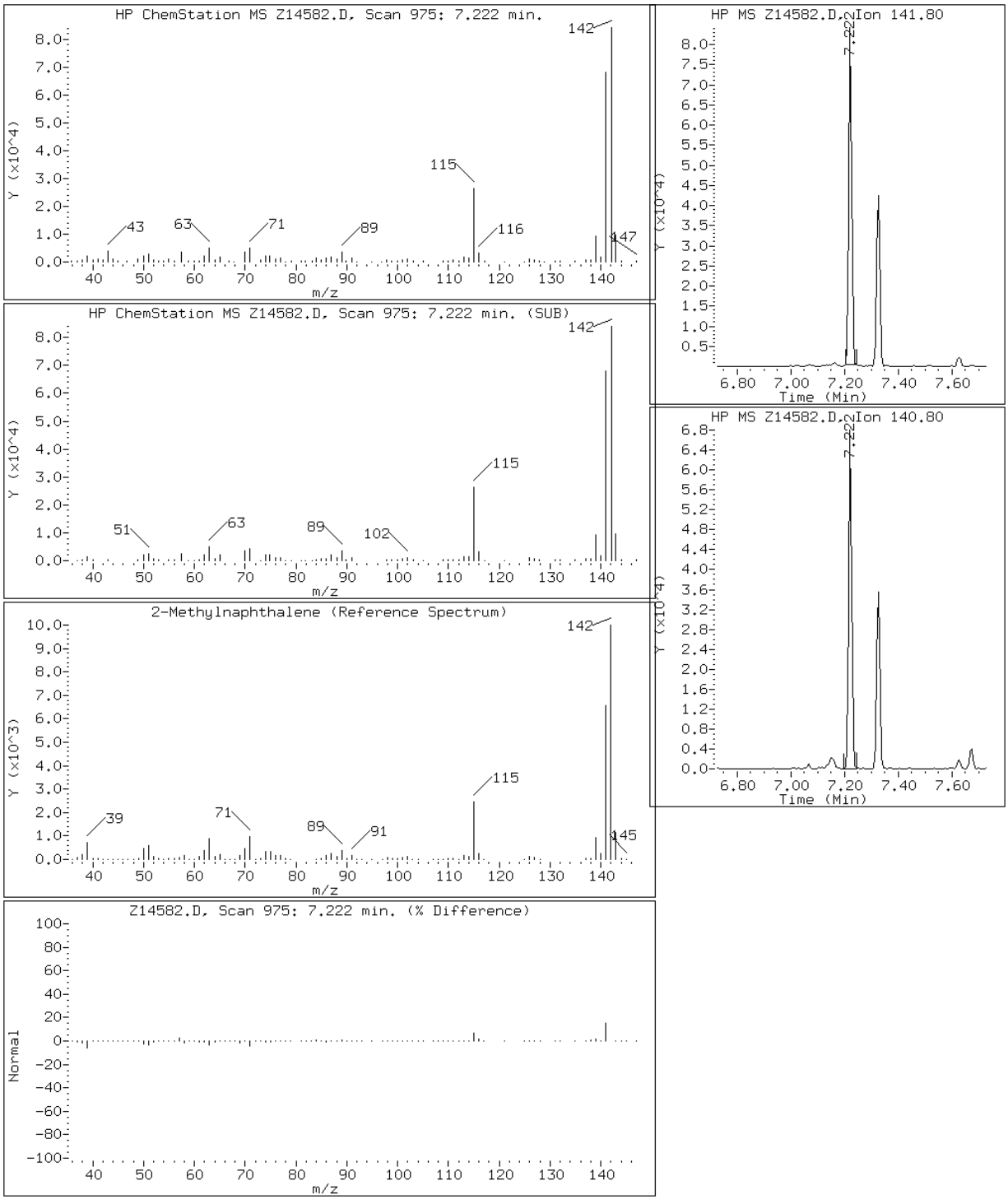
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

34 2-Methylnaphthalene



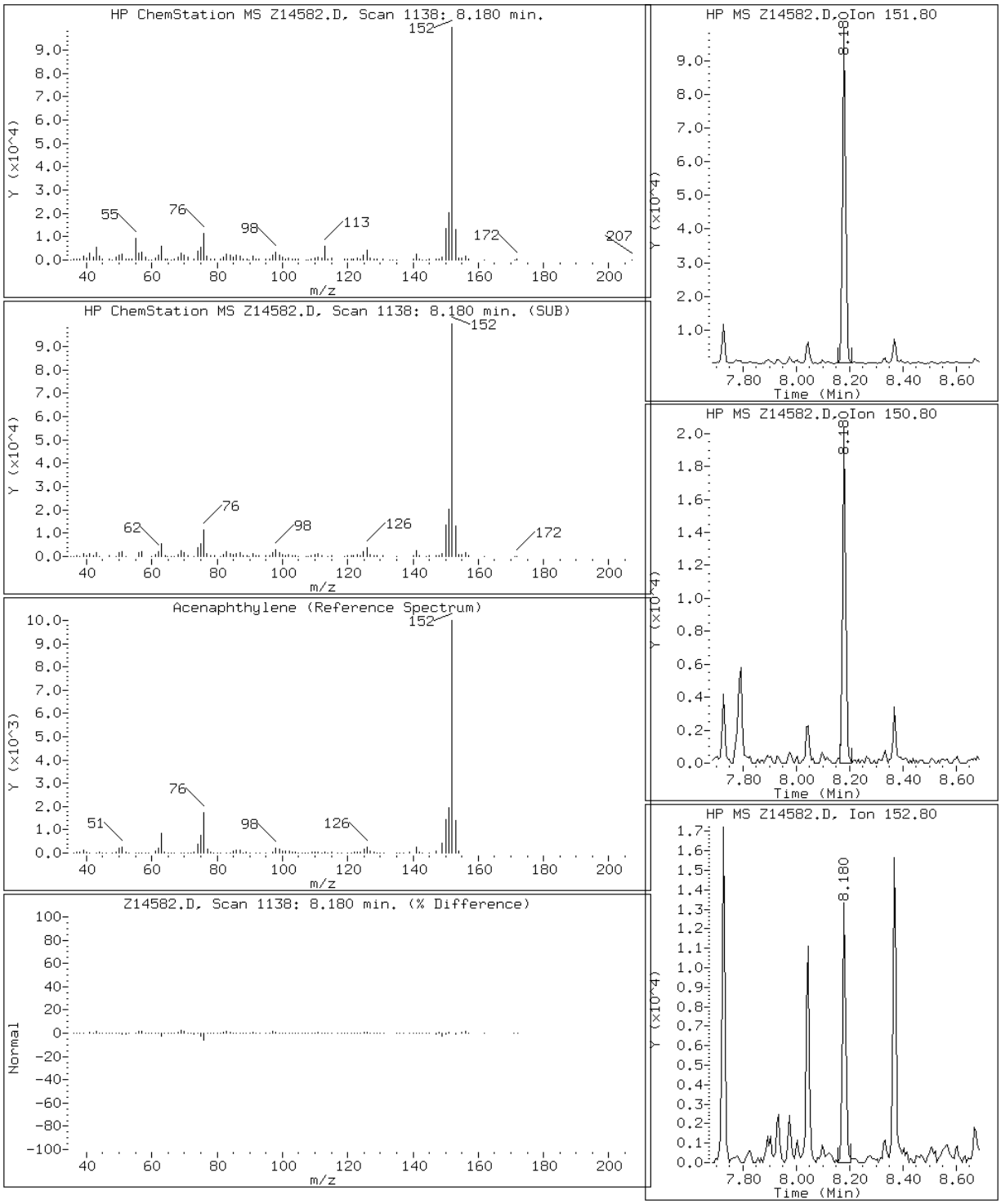
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

43 Acenaphthylene



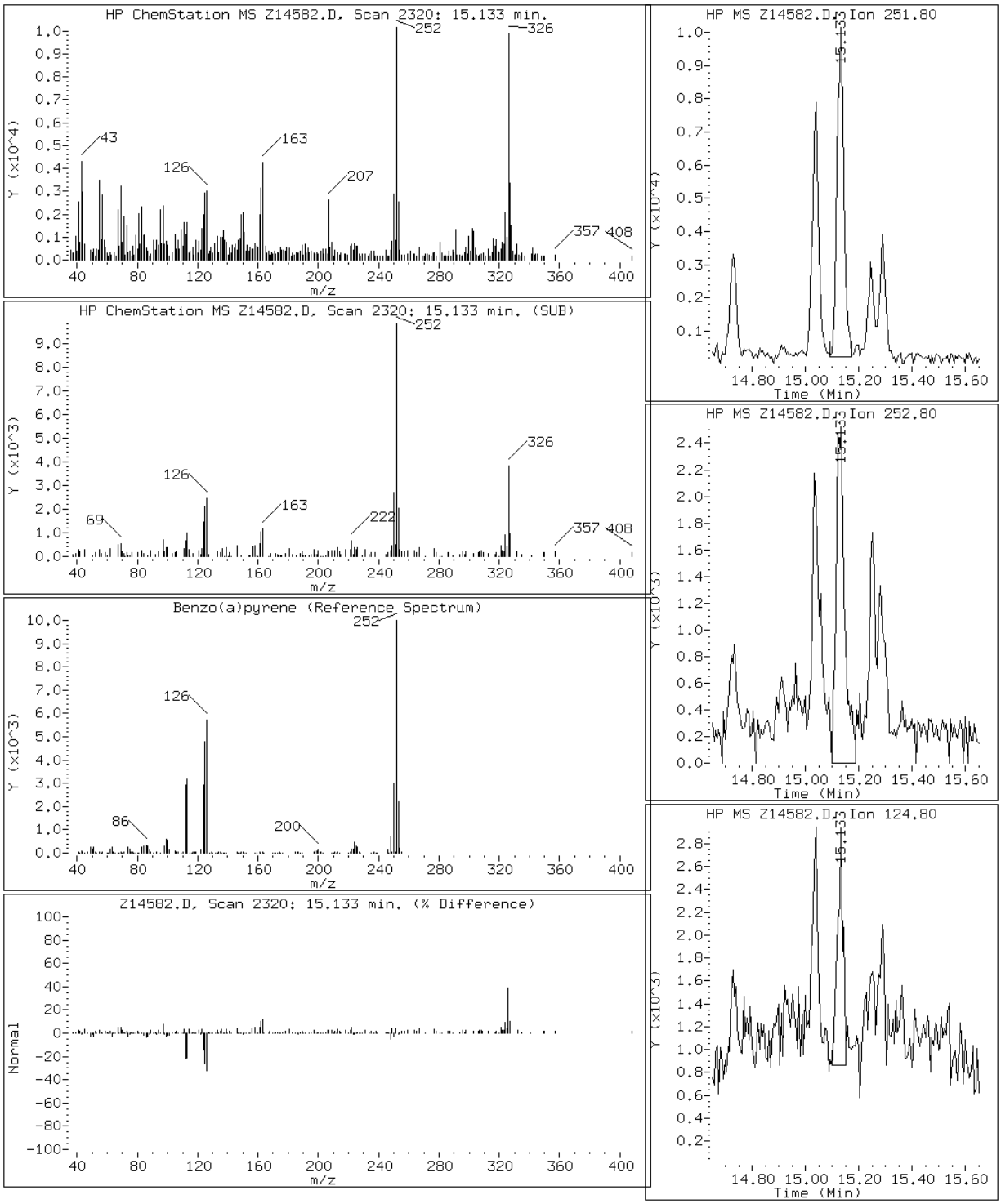
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

83 Benzo(a)pyrene



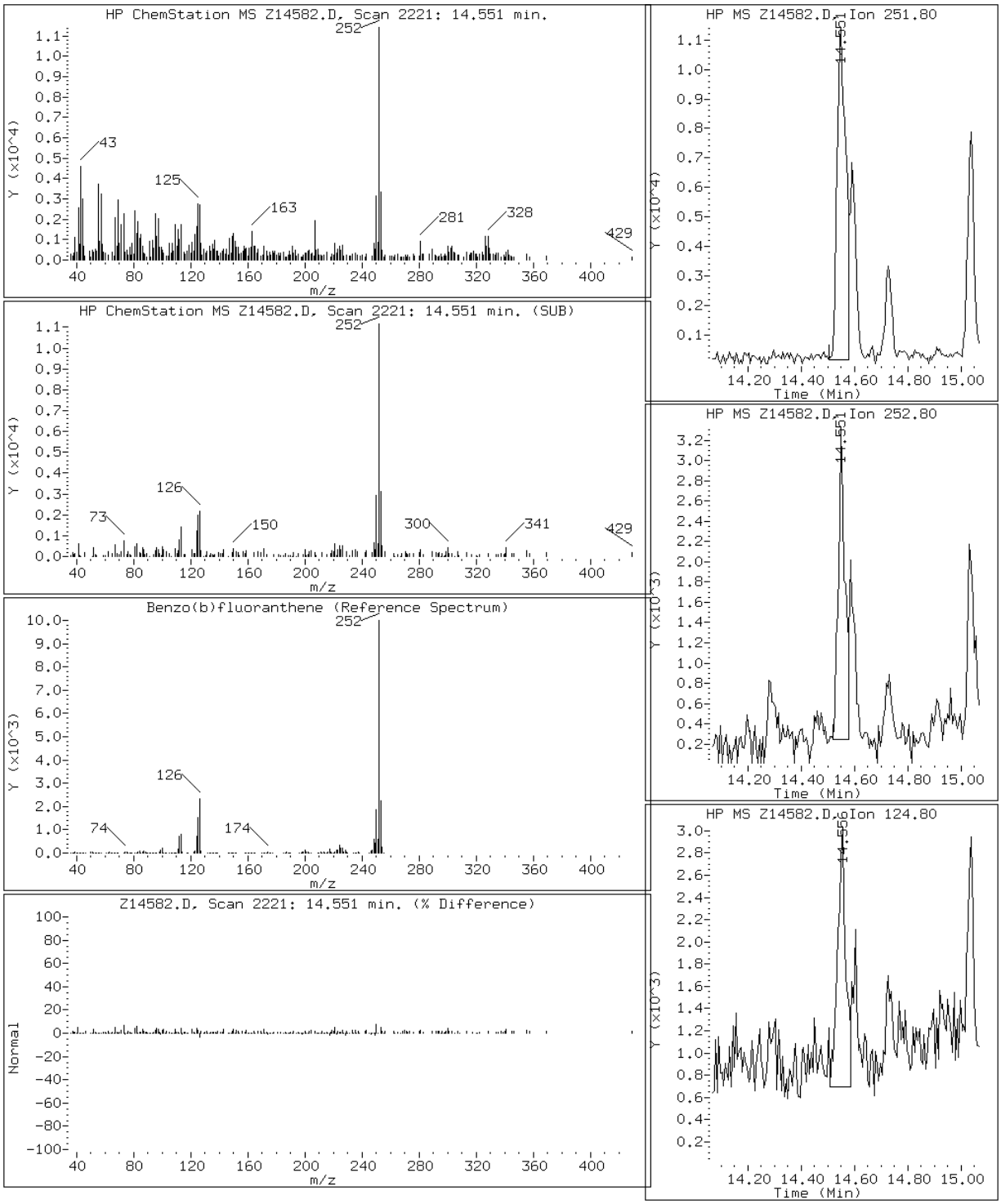
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

81 Benzo(b)fluoranthene



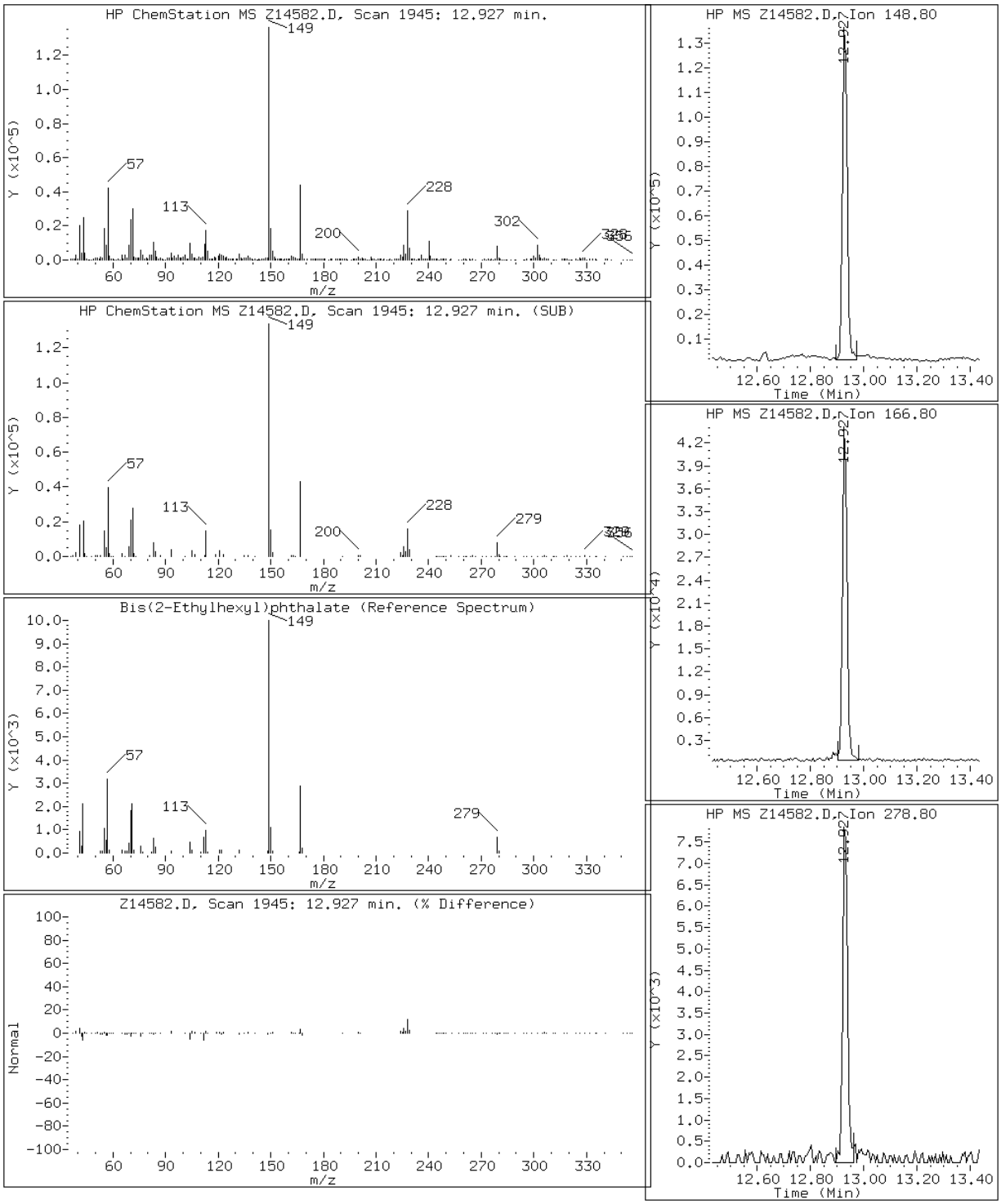
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



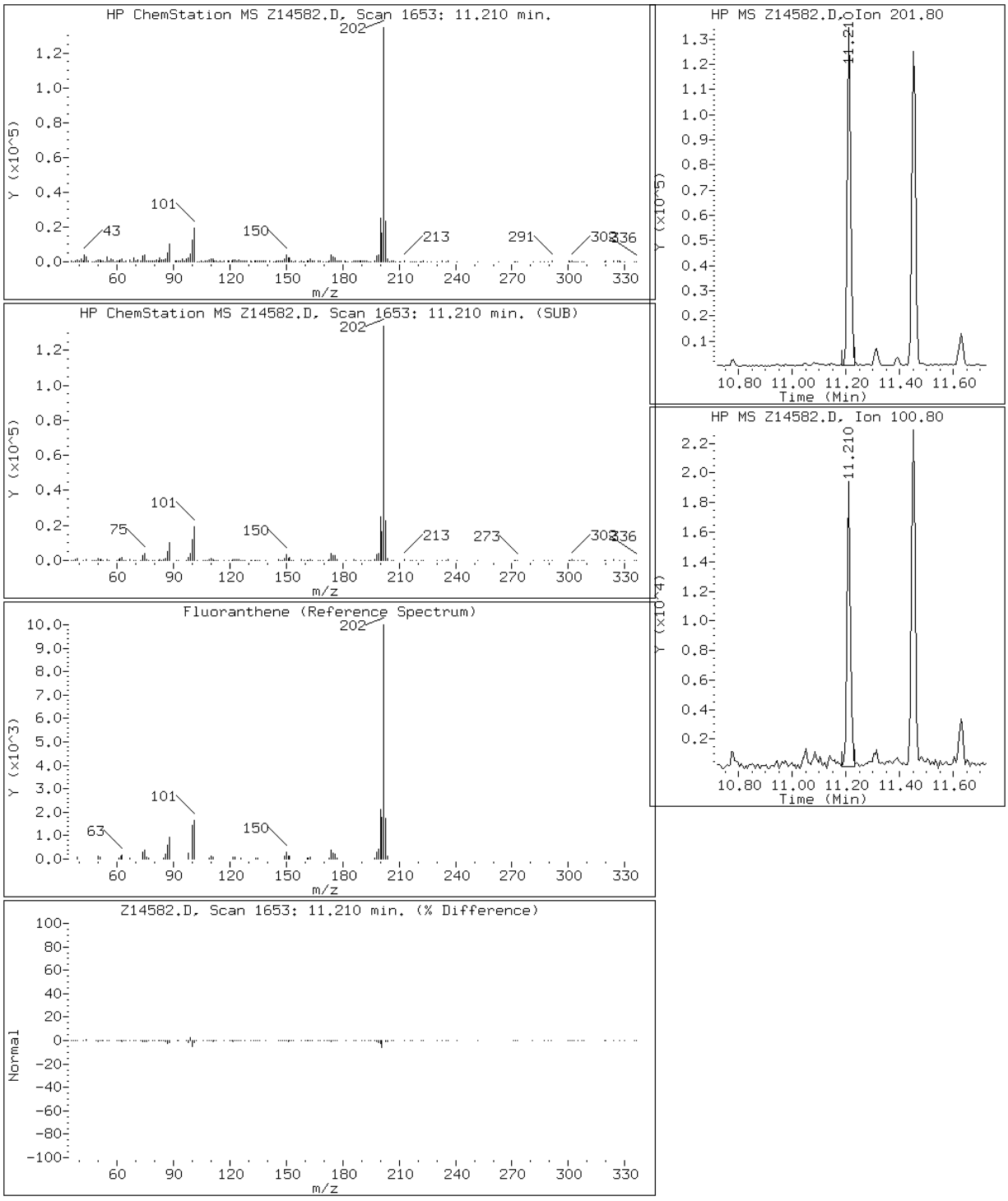
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

68 Fluoranthene



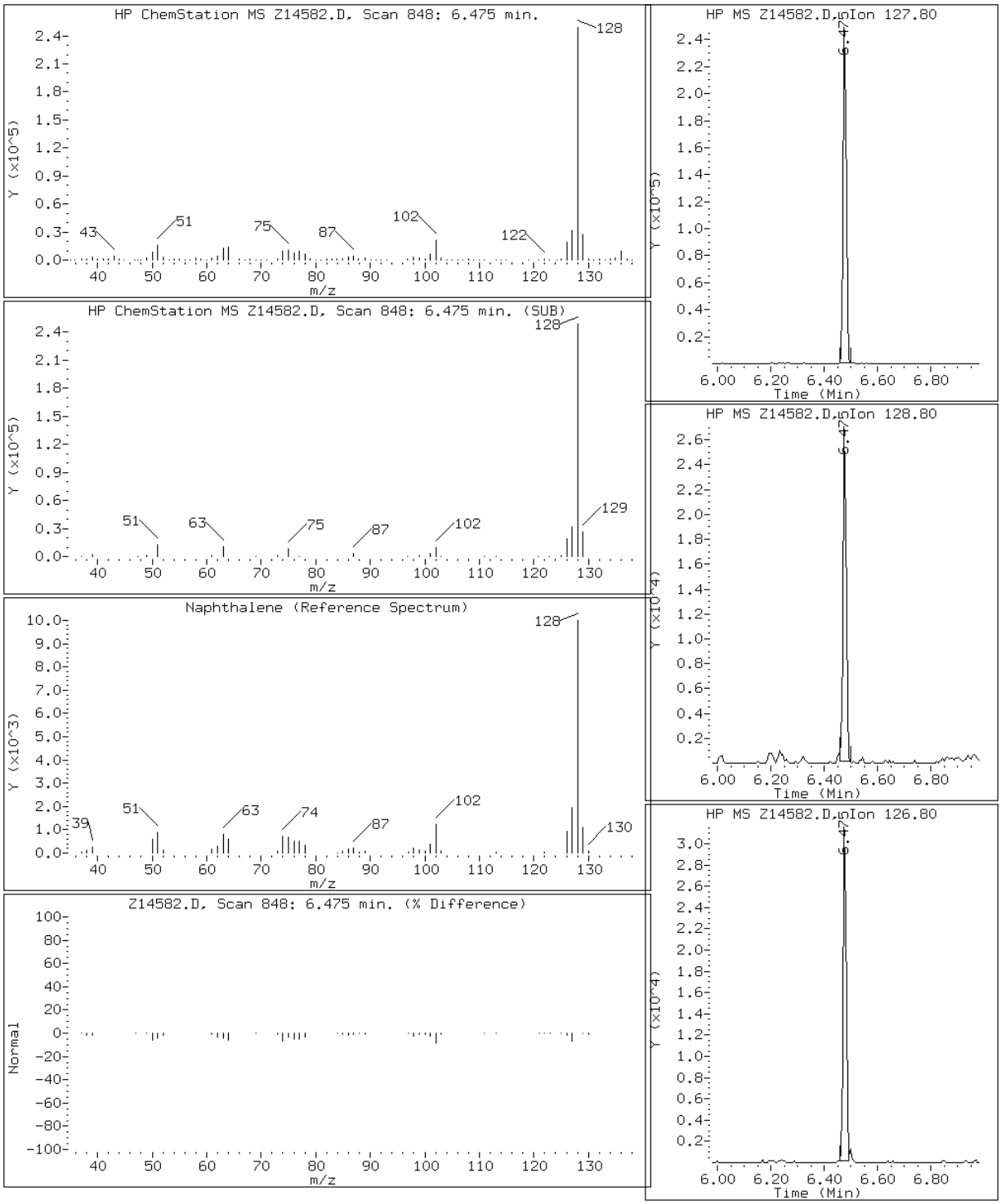
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

30 Naphthalene



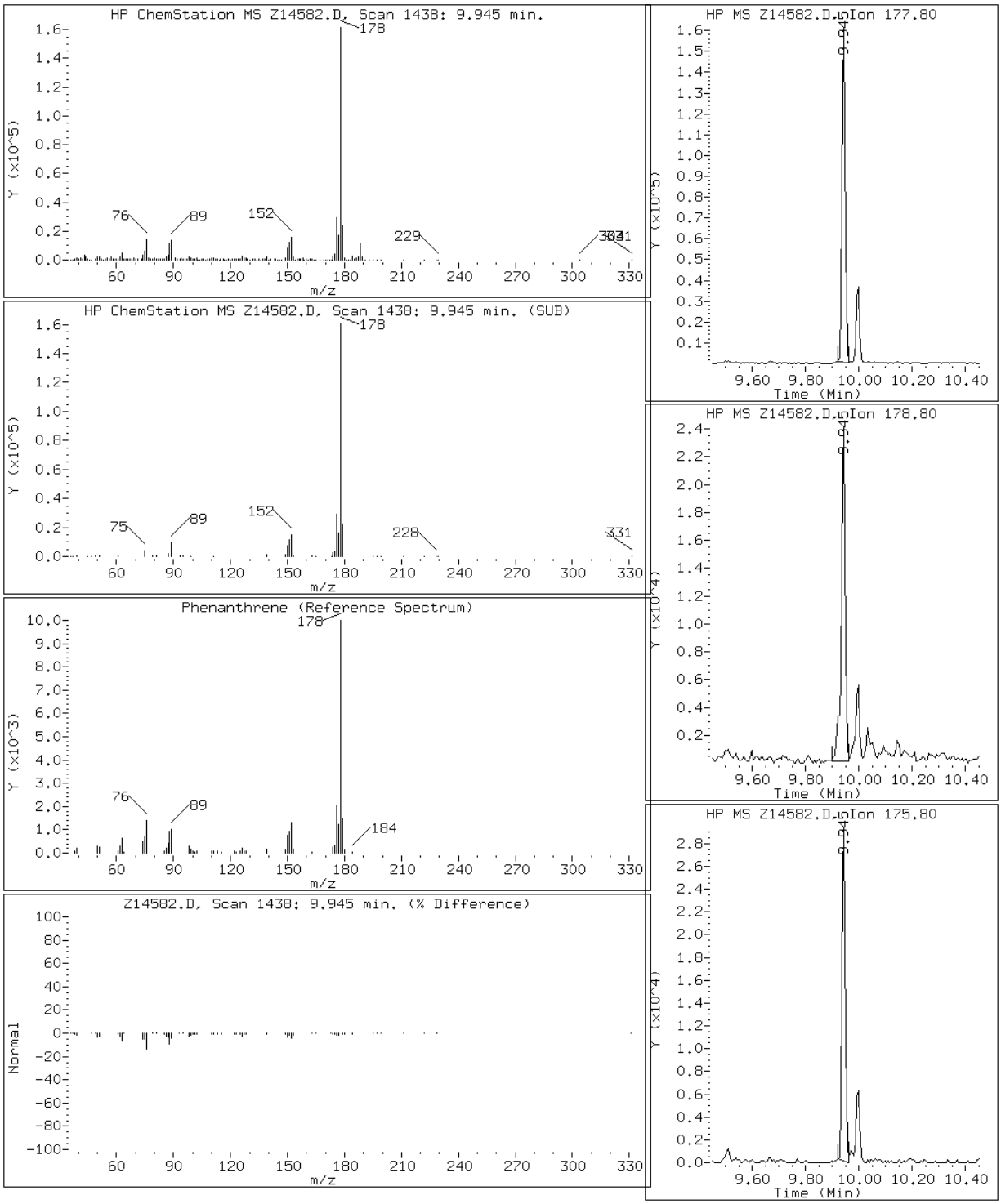
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

64 Phenanthrene



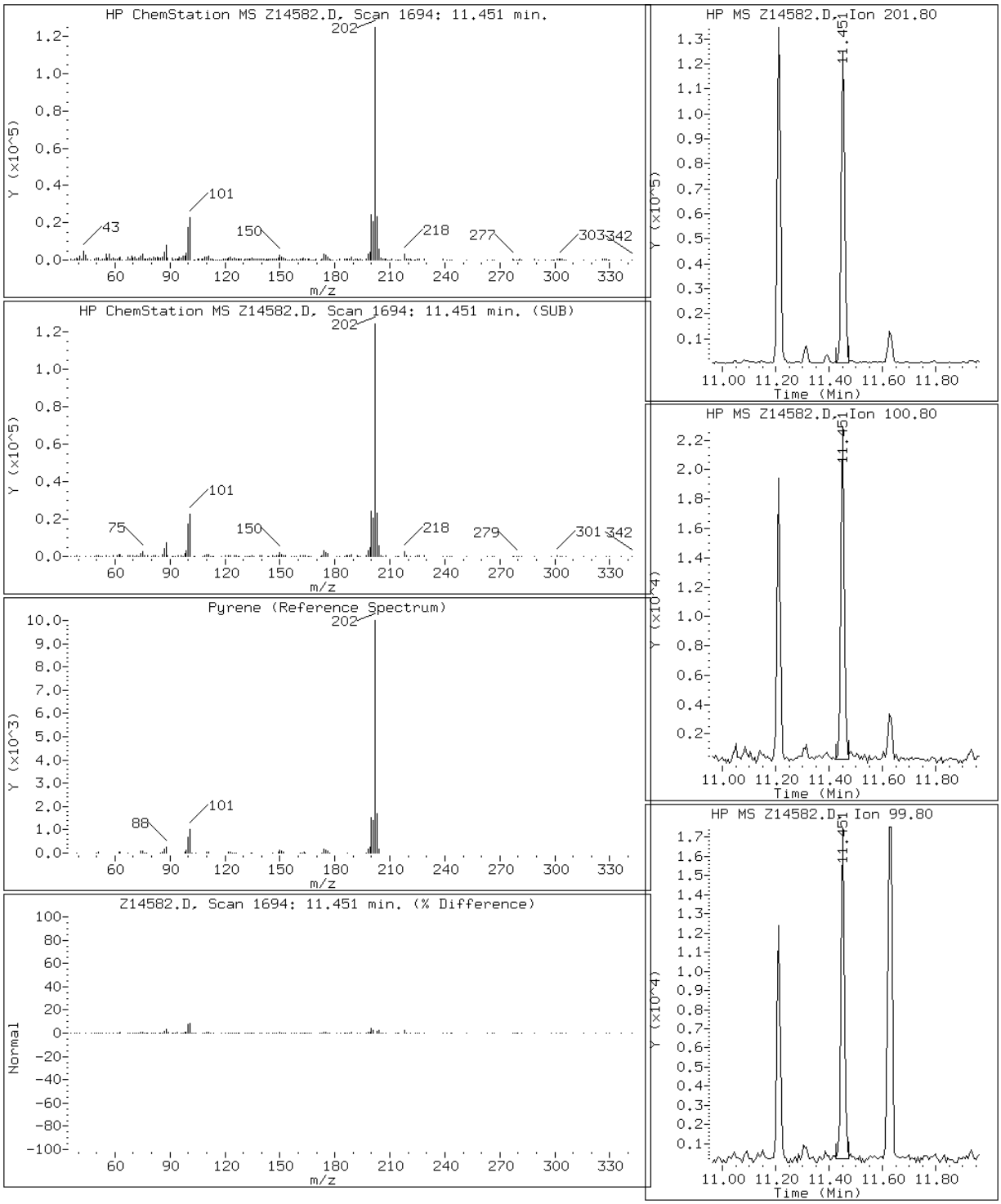
Data File: Z14582.D

Date: 21-DEC-2009 17:58

Client ID: PBL-5-5-N(6') Instrument: msz.i

Sample Info: 220-11066-A-3-A Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-N(5') | Lab Sample ID: 220-11066-4

Matrix: Solid | Lab File ID: Z14583.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:45

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.13(g) | Date Analyzed: 12/21/2009 18:26

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	300	U	300	20
95-95-4	2,4,5-Trichlorophenol	1900	U	1900	15
88-06-2	2,4,6-Trichlorophenol	300	U	300	8.4
120-83-2	2,4-Dichlorophenol	300	U	300	16
105-67-9	2,4-Dimethylphenol	300	U	300	15
121-14-2	2,4-Dinitrotoluene	300	U	300	24
51-28-5	2,4-Dinitrophenol	1900	U	1900	91
606-20-2	2,6-Dinitrotoluene	300	U	300	8.9
91-58-7	2-Chloronaphthalene	300	U	300	13
95-57-8	2-Chlorophenol	300	U	300	18
91-57-6	2-Methylnaphthalene	300	U	300	8.7
95-48-7	2-Methylphenol	300	U	300	18
88-74-4	2-Nitroaniline	760	U	760	19
88-75-5	2-Nitrophenol	300	U	300	19
91-94-1	3,3'-Dichlorobenzidine	370	U	370	63
99-09-2	3-Nitroaniline	760	U	760	9.7
534-52-1	4,6-Dinitro-2-methylphenol	1900	U	1900	130
101-55-3	4-Bromophenyl phenyl ether	300	U	300	20
59-50-7	4-Chloro-3-methylphenol	300	U	300	13
106-47-8	4-Chloroaniline	300	U	300	50
7005-72-3	4-Chlorophenyl phenyl ether	300	U	300	22
106-44-5	4-Methylphenol	300	U	300	20
100-01-6	4-Nitroaniline	300	U	300	23
100-02-7	4-Nitrophenol	1900	U	1900	23
83-32-9	Acenaphthene	300	U	300	18
208-96-8	Acenaphthylene	300	U	300	15
98-86-2	Acetophenone	300	U	300	16
120-12-7	Anthracene	300	U	300	12
1912-24-9	Atrazine	370	U	370	19
100-52-7	Benzaldehyde	300	U	300	51
56-55-3	Benzo[a]anthracene	300	U	300	11
50-32-8	Benzo[a]pyrene	10	J	300	8.2
205-99-2	Benzo[b]fluoranthene	270	J	300	8.1
191-24-2	Benzo[g,h,i]perylene	300	U	300	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-N(5') | Lab Sample ID: 220-11066-4

Matrix: Solid | Lab File ID: Z14583.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:45

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.13(g) | Date Analyzed: 12/21/2009 18:26

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	300	U	300	27
111-91-1	Bis(2-chloroethoxy)methane	300	U	300	14
111-44-4	Bis(2-chloroethyl)ether	300	U	300	16
117-81-7	Bis(2-ethylhexyl) phthalate	170	J B	300	29
85-68-7	Butyl benzyl phthalate	300	U	300	17
105-60-2	Caprolactam	300	U	300	24
86-74-8	Carbazole	300	U	300	17
218-01-9	Chrysene	300	U	300	22
84-74-2	Di-n-butyl phthalate	300	U	300	44
117-84-0	Di-n-octyl phthalate	300	U	300	17
53-70-3	Dibenz(a,h)anthracene	300	U	300	24
132-64-9	Dibenzofuran	300	U	300	21
84-66-2	Diethyl phthalate	300	U	300	31
131-11-3	Dimethyl phthalate	300	U	300	17
206-44-0	Fluoranthene	23	J	300	15
86-73-7	Fluorene	300	U	300	18
118-74-1	Hexachlorobenzene	300	U	300	21
87-68-3	Hexachlorobutadiene	300	U	300	23
77-47-4	Hexachlorocyclopentadiene	760	U	760	140
67-72-1	Hexachloroethane	300	U	300	17
193-39-5	Indeno[1,2,3-cd]pyrene	300	U	300	20
78-59-1	Isophorone	300	U	300	17
621-64-7	N-Nitrosodi-n-propylamine	300	U	300	21
86-30-6	N-Nitrosodiphenylamine	300	U	300	17
91-20-3	Naphthalene	300	U	300	16
98-95-3	Nitrobenzene	300	U	300	19
87-86-5	Pentachlorophenol	760	U	760	190
85-01-8	Phenanthrene	300	U	300	15
108-95-2	Phenol	300	U	300	20
129-00-0	Pyrene	23	J	300	14
108-60-1	2,2'-oxybis[1-chloropropane]	300	U	300	16

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-N(5') | Lab Sample ID: 220-11066-4

Matrix: Solid | Lab File ID: Z14583.D

Analysis Method: 8270C | Date Collected: 12/14/2009 12:45

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.13(g) | Date Analyzed: 12/21/2009 18:26

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	53	37-120	
321-60-8	2-Fluorobiphenyl	51	41-120	
367-12-4	2-Fluorophenol	49	34-120	
4165-60-0	Nitrobenzene-d5	53	38-120	
4165-62-2	Phenol-d5	52	36-120	
1718-51-0	Terphenyl-d14	66	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14583.D
Lab Smp Id: 220-11066-A-4-A Client Smp ID: PBL-5-10-N(5')
Inj Date : 21-DEC-2009 18:26
Operator : S.Jonas Inst ID: msz.i
Smp Info : 220-11066-A-4-A
Misc Info : 220-11066-A-4-A
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.130	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	12.184	% Moisture
Cpnd Variable		Local Compound Variable

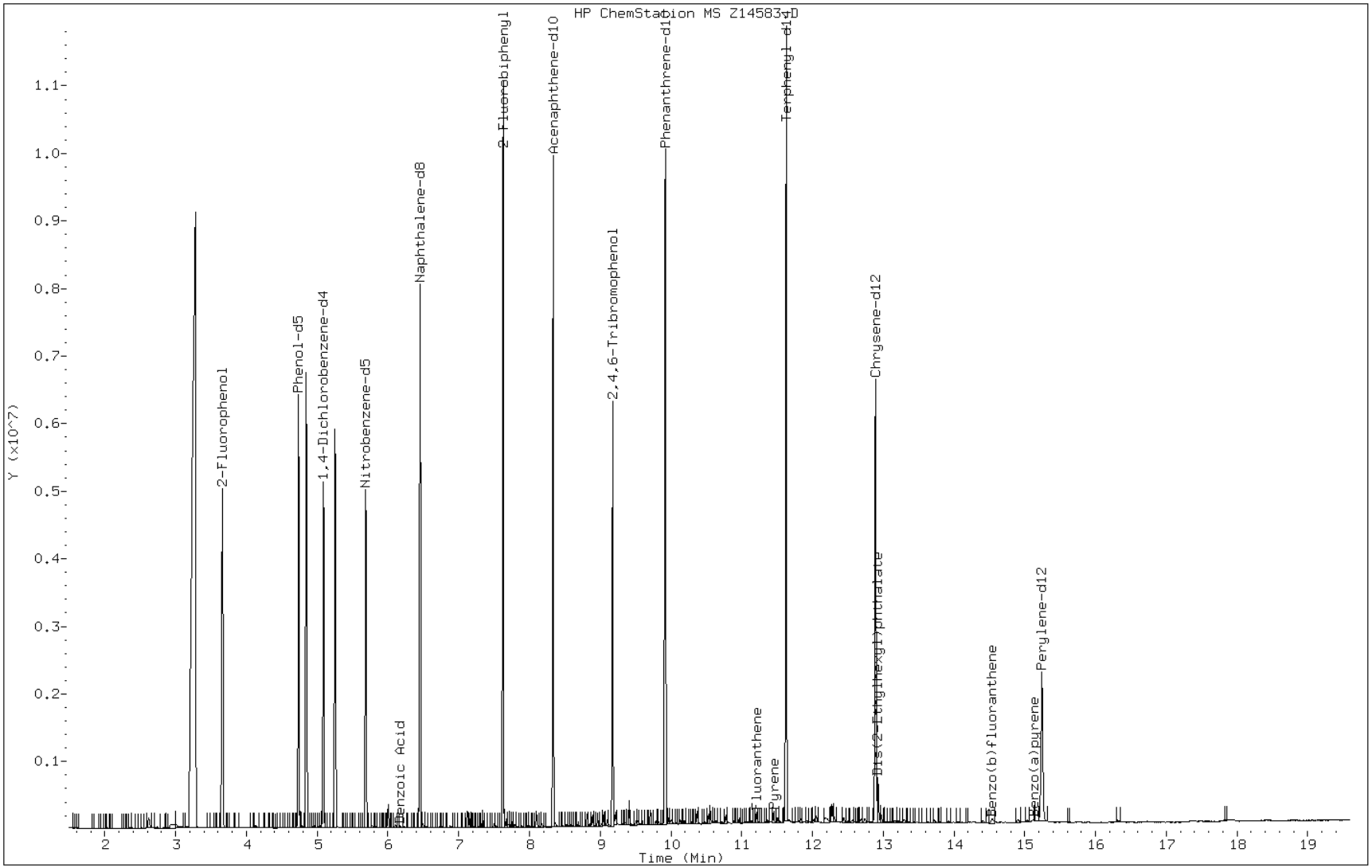
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.086	5.087	(1.000)	864121	20.0000	
$	2 2-Fluorophenol	112	3.657	3.634	(0.719)	1873726	36.4367	2700
$	3 Phenol-d5	99	4.739	4.734	(0.932)	2635854	38.6943	2900
*	20 Naphthalene-d8	136	6.457	6.457	(1.000)	3813749	20.0000	
$	21 Nitrobenzene-d5	82	5.686	5.693	(0.881)	1677634	26.5506	2000
	26 Benzoic Acid	122	6.168	6.281	(0.955)	6645	6.21379	470
*	35 Acenaphthene-d10	164	8.333	8.339	(1.000)	2390350	20.0000	
$	40 2-Fluorobiphenyl	172	7.627	7.634	(0.915)	3741741	25.6617	1900
$	56 2,4,6-Tribromophenol	330	9.180	9.186	(1.102)	822277	39.5973	3000
*	57 Phenanthrene-d10	188	9.921	9.922	(1.000)	3988657	20.0000	
	68 Fluoranthene	202	11.209	11.222	(1.130)	68711	0.30817	23
*	70 Chrysene-d12	240	12.891	12.904	(1.000)	3018585	20.0000	
	72 Pyrene	202	11.450	11.463	(0.888)	62159	0.31169	23
$	73 Terphenyl-d14	244	11.627	11.633	(0.902)	4132057	32.8207	2500
	78 Bis(2-Ethylhexyl)phthalate	149	12.927	12.933	(1.003)	199890	2.25558	170
*	79 Perylene-d12	264	15.244	15.257	(1.000)	1244427	20.0000	
	81 Benzo(b)fluoranthene	252	14.544	14.568	(0.954)	19316	3.56002	270
	83 Benzo(a)pyrene	252	15.127	15.151	(0.992)	9957	0.13456	10

Data File: Z14583.D

Date: 21-DEC-2009 18:26

Client ID: PBL-5-10-N(5') Instrument: msz.i

Sample Info: 220-11066-A-4-A Operator: S.Jonas



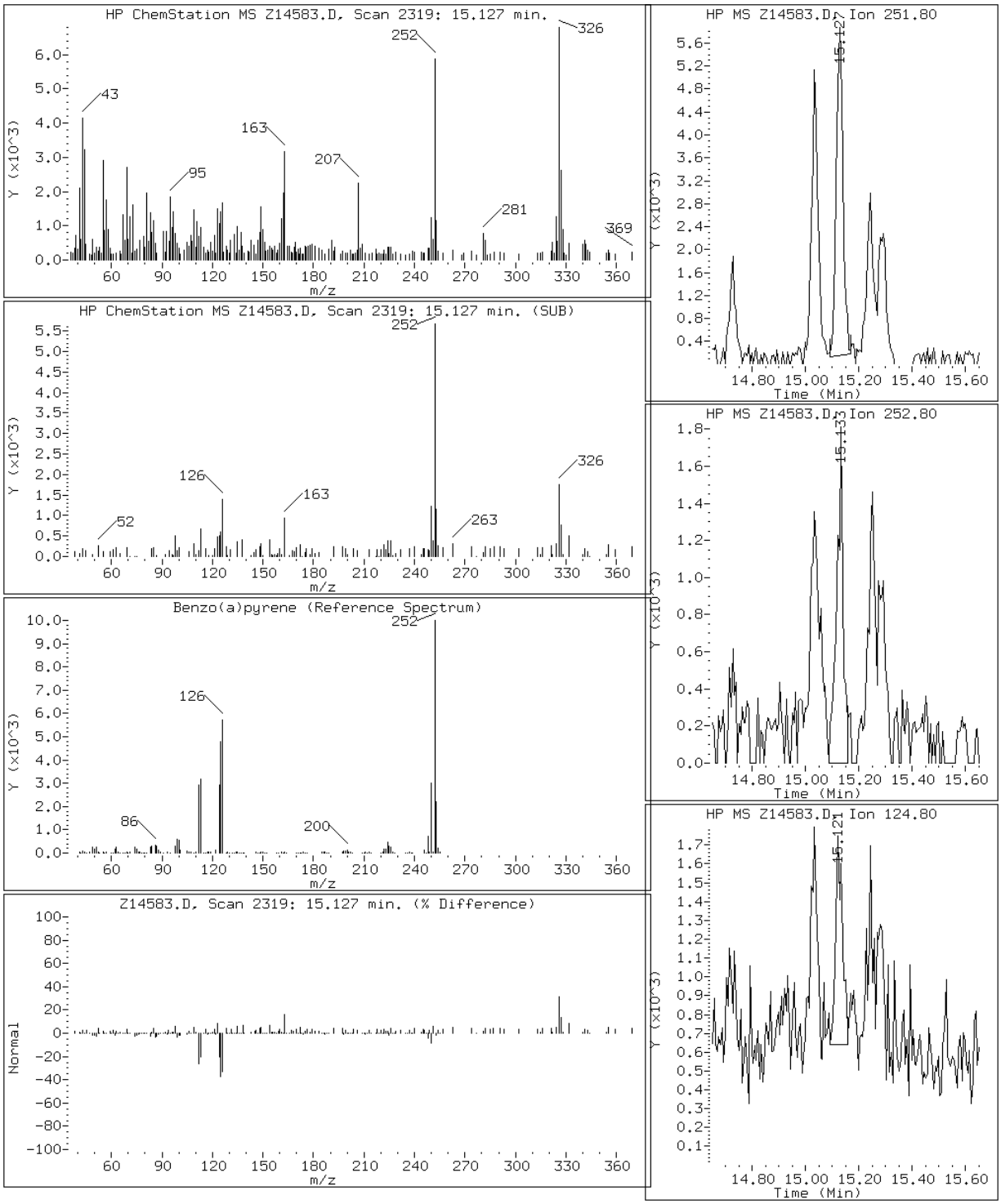
Data File: Z14583.D

Date: 21-DEC-2009 18:26

Client ID: PBL-5-10-N(5') Instrument: msz.i

Sample Info: 220-11066-A-4-A Operator: S.Jonas

83 Benzo(a)pyrene



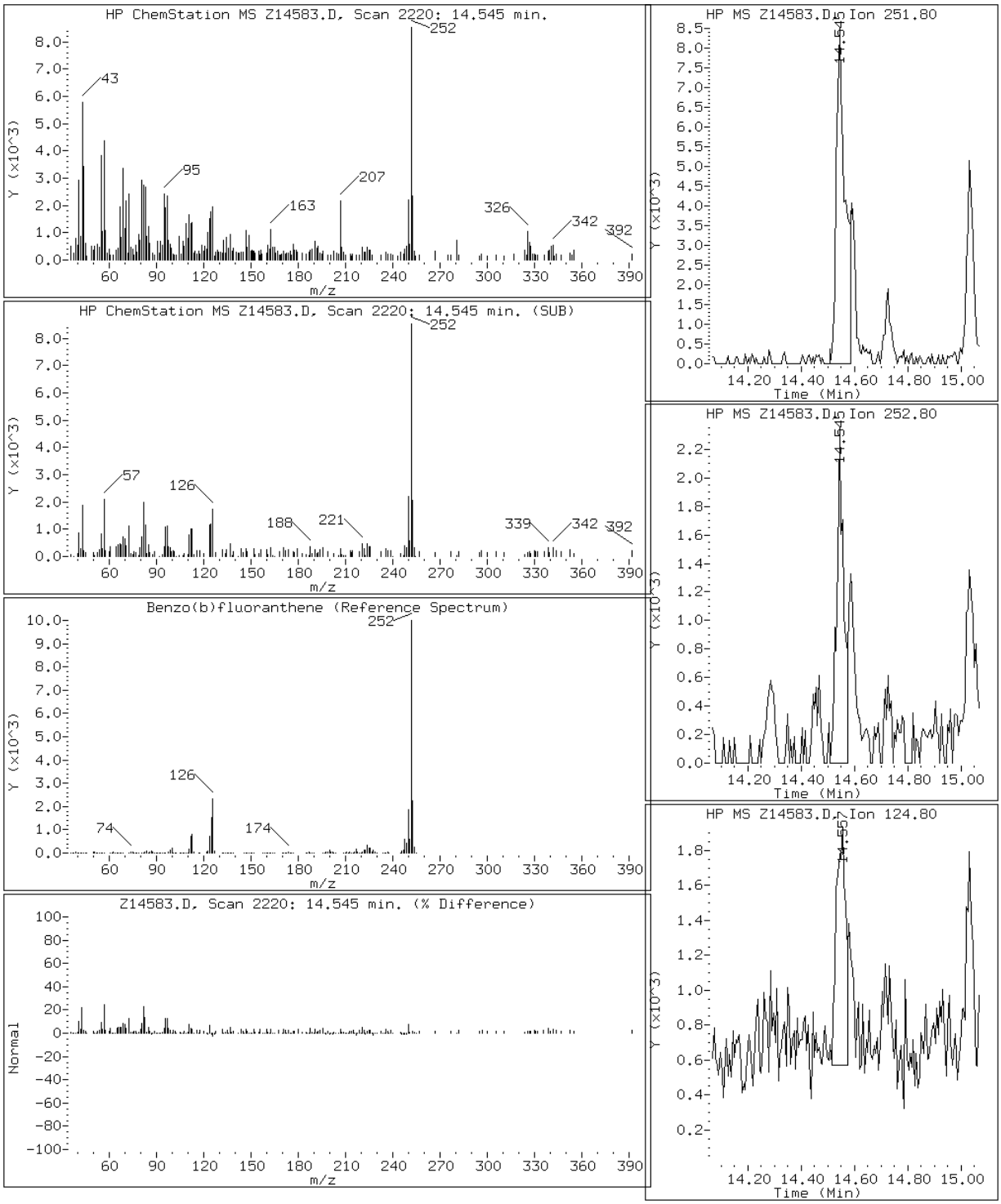
Data File: Z14583.D

Date: 21-DEC-2009 18:26

Client ID: PBL-5-10-N(5') Instrument: msz.i

Sample Info: 220-11066-A-4-A Operator: S.Jonas

81 Benzo(b)fluoranthene



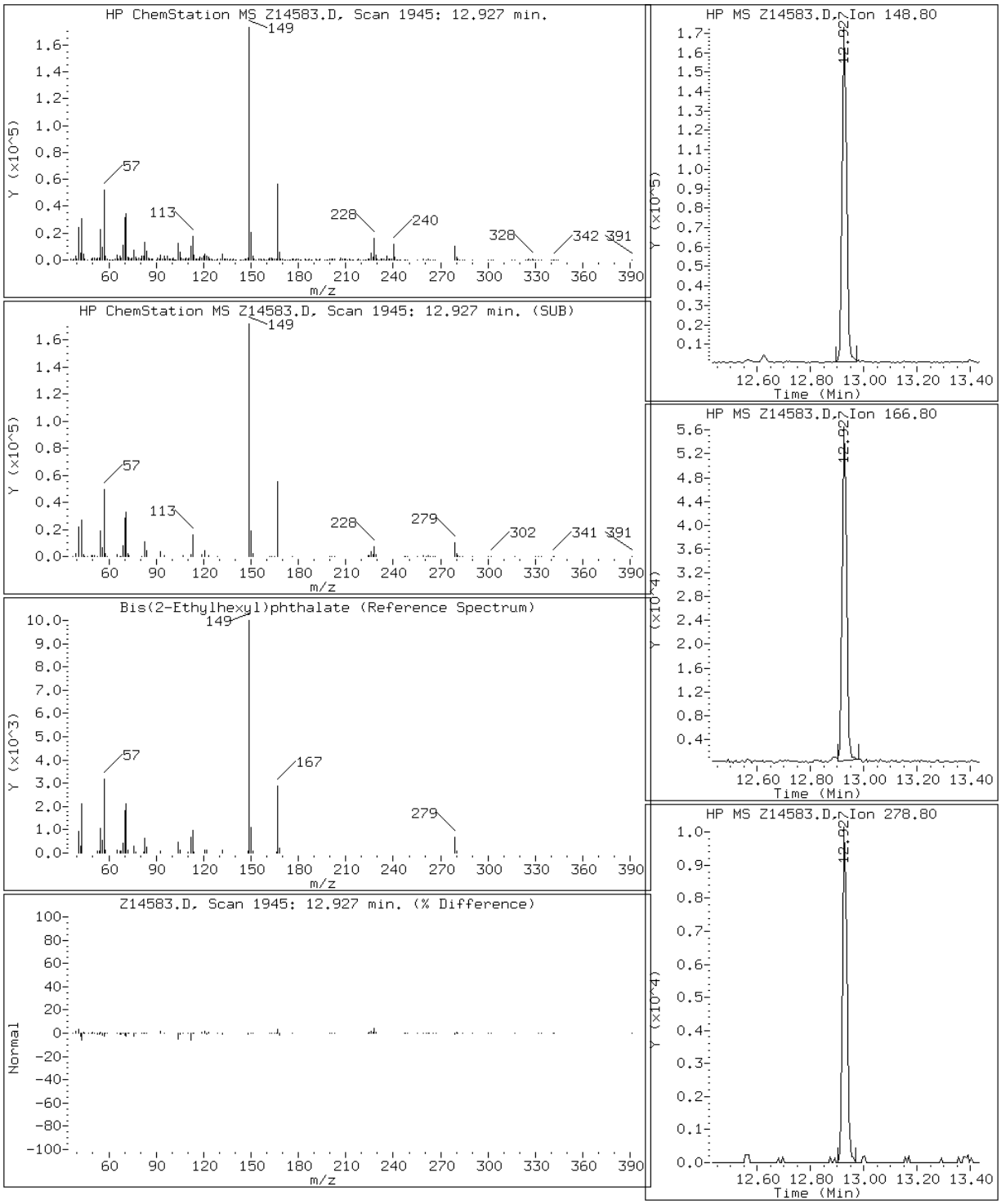
Data File: Z14583.D

Date: 21-DEC-2009 18:26

Client ID: PBL-5-10-N(5') Instrument: msz.i

Sample Info: 220-11066-A-4-A Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



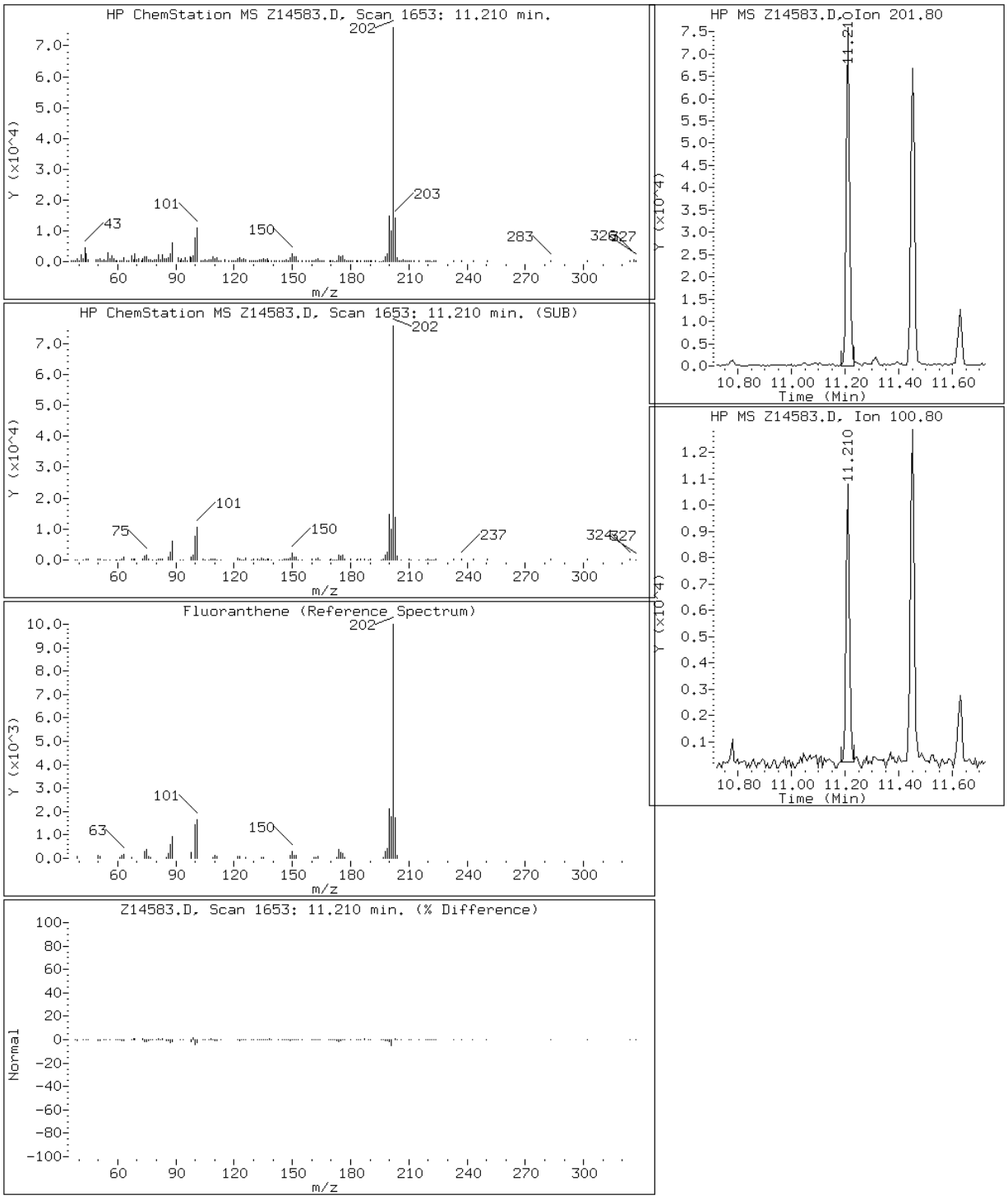
Data File: Z14583.D

Date: 21-DEC-2009 18:26

Client ID: PBL-5-10-N(5') Instrument: msz.i

Sample Info: 220-11066-A-4-A Operator: S.Jonas

68 Fluoranthene



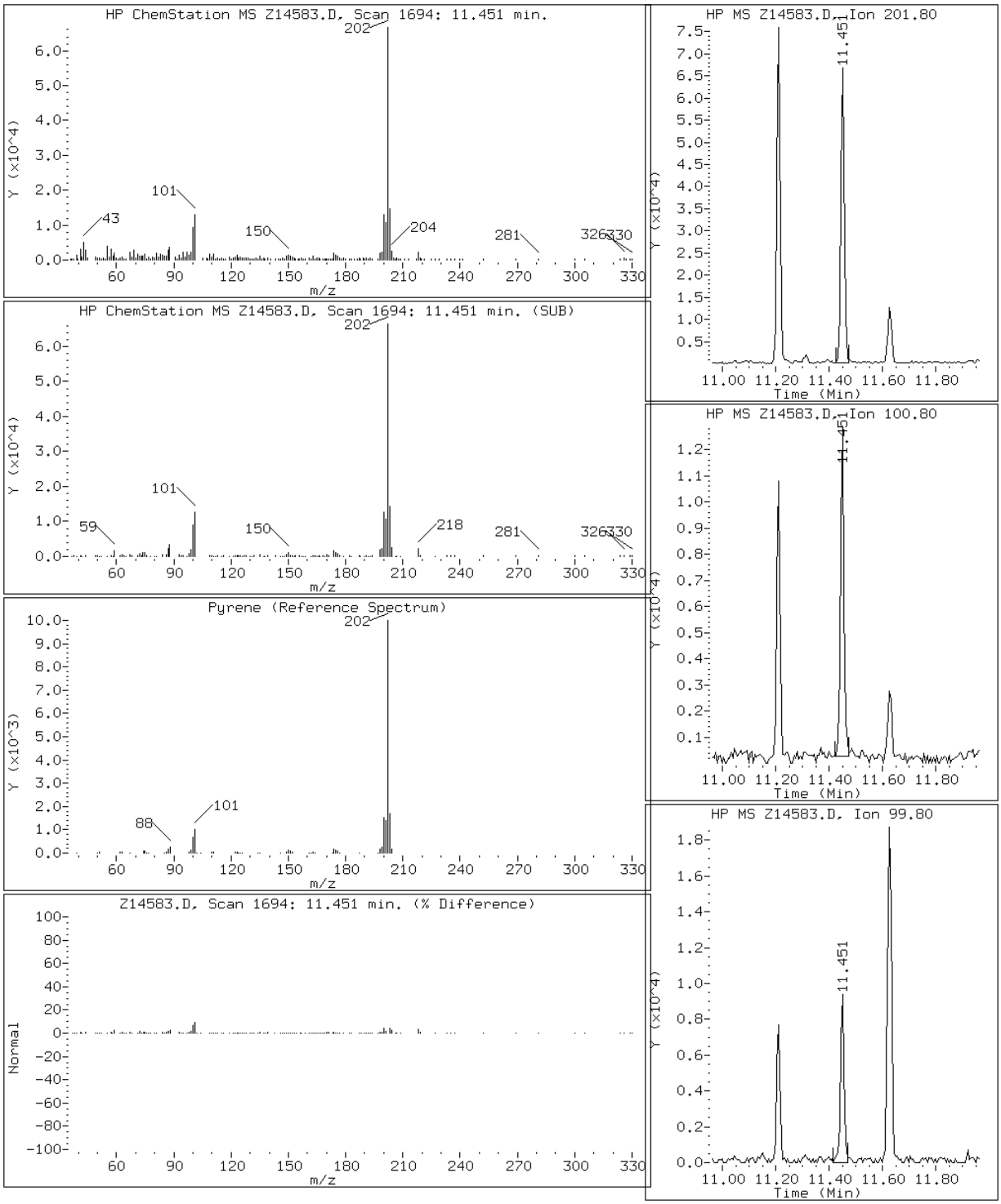
Data File: Z14583.D

Date: 21-DEC-2009 18:26

Client ID: PBL-5-10-N(5') Instrument: msz.i

Sample Info: 220-11066-A-4-A Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-S(2') | Lab Sample ID: 220-11066-5

Matrix: Solid | Lab File ID: Z14584.D

Analysis Method: 8270C | Date Collected: 12/14/2009 14:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.12(g) | Date Analyzed: 12/21/2009 18:55

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	2900	U	2900	190
95-95-4	2,4,5-Trichlorophenol	19000	U	19000	150
88-06-2	2,4,6-Trichlorophenol	2900	U	2900	81
120-83-2	2,4-Dichlorophenol	2900	U	2900	160
105-67-9	2,4-Dimethylphenol	2900	U	2900	140
121-14-2	2,4-Dinitrotoluene	2900	U	2900	230
51-28-5	2,4-Dinitrophenol	19000	U	19000	880
606-20-2	2,6-Dinitrotoluene	2900	U	2900	86
91-58-7	2-Chloronaphthalene	2900	U	2900	130
95-57-8	2-Chlorophenol	2900	U	2900	170
91-57-6	2-Methylnaphthalene	200	J	2900	84
95-48-7	2-Methylphenol	2900	U	2900	180
88-74-4	2-Nitroaniline	7300	U	7300	180
88-75-5	2-Nitrophenol	2900	U	2900	190
91-94-1	3,3'-Dichlorobenzidine	3600	U	3600	610
99-09-2	3-Nitroaniline	7300	U	7300	94
534-52-1	4,6-Dinitro-2-methylphenol	19000	U	19000	1300
101-55-3	4-Bromophenyl phenyl ether	2900	U	2900	190
59-50-7	4-Chloro-3-methylphenol	2900	U	2900	120
106-47-8	4-Chloroaniline	2900	U	2900	480
7005-72-3	4-Chlorophenyl phenyl ether	2900	U	2900	220
106-44-5	4-Methylphenol	2900	U	2900	190
100-01-6	4-Nitroaniline	2900	U	2900	230
100-02-7	4-Nitrophenol	19000	U	19000	220
83-32-9	Acenaphthene	530	J	2900	170
208-96-8	Acenaphthylene	2900	U	2900	140
98-86-2	Acetophenone	2900	U	2900	150
120-12-7	Anthracene	690	J	2900	110
1912-24-9	Atrazine	3600	U	3600	190
100-52-7	Benzaldehyde	2900	U	2900	490
56-55-3	Benzo[a]anthracene	1700	J	2900	100
50-32-8	Benzo[a]pyrene	1400	J	2900	80
205-99-2	Benzo[b]fluoranthene	4000		2900	78
191-24-2	Benzo[g,h,i]perylene	1100	J	2900	190

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-S(2') | Lab Sample ID: 220-11066-5

Matrix: Solid | Lab File ID: Z14584.D

Analysis Method: 8270C | Date Collected: 12/14/2009 14:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.12(g) | Date Analyzed: 12/21/2009 18:55

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	700	J	2900	260
111-91-1	Bis(2-chloroethoxy)methane	2900	U	2900	140
111-44-4	Bis(2-chloroethyl)ether	2900	U	2900	150
117-81-7	Bis(2-ethylhexyl) phthalate	320	J B	2900	280
85-68-7	Butyl benzyl phthalate	2900	U	2900	160
105-60-2	Caprolactam	2900	U	2900	230
86-74-8	Carbazole	480	J	2900	160
218-01-9	Chrysene	1600	J	2900	220
84-74-2	Di-n-butyl phthalate	2900	U	2900	430
117-84-0	Di-n-octyl phthalate	2900	U	2900	170
53-70-3	Dibenz(a,h)anthracene	260	J	2900	230
132-64-9	Dibenzofuran	240	J	2900	210
84-66-2	Diethyl phthalate	2900	U	2900	300
131-11-3	Dimethyl phthalate	2900	U	2900	170
206-44-0	Fluoranthene	3900		2900	150
86-73-7	Fluorene	380	J	2900	180
118-74-1	Hexachlorobenzene	2900	U	2900	200
87-68-3	Hexachlorobutadiene	2900	U	2900	230
77-47-4	Hexachlorocyclopentadiene	7300	U	7300	1400
67-72-1	Hexachloroethane	2900	U	2900	170
193-39-5	Indeno[1,2,3-cd]pyrene	1300	J	2900	190
78-59-1	Isophorone	2900	U	2900	160
621-64-7	N-Nitrosodi-n-propylamine	2900	U	2900	200
86-30-6	N-Nitrosodiphenylamine	2900	U	2900	170
91-20-3	Naphthalene	230	J	2900	150
98-95-3	Nitrobenzene	2900	U	2900	190
87-86-5	Pentachlorophenol	7300	U	7300	1800
85-01-8	Phenanthrene	2900	J	2900	150
108-95-2	Phenol	2900	U	2900	200
129-00-0	Pyrene	3700		2900	140
108-60-1	2,2'-oxybis[1-chloropropane]	2900	U	2900	150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-5-10-S(2') | Lab Sample ID: 220-11066-5

Matrix: Solid | Lab File ID: Z14584.D

Analysis Method: 8270C | Date Collected: 12/14/2009 14:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.12(g) | Date Analyzed: 12/21/2009 18:55

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	30	37-120	*
321-60-8	2-Fluorobiphenyl	84	41-120	
367-12-4	2-Fluorophenol	37	34-120	
4165-60-0	Nitrobenzene-d5	88	38-120	
4165-62-2	Phenol-d5	65	36-120	
1718-51-0	Terphenyl-d14	102	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14584.D
Lab Smp Id: 220-11066-A-5-B Client Smp ID: PBL-5-10-S(2')
Inj Date : 21-DEC-2009 18:55
Operator : S.Jonas Inst ID: msz.i
Smp Info : 220-11066-A-5-B;10
Misc Info : 220-11066-A-5-B
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 24
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.120	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	9.008	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.104	5.087	(1.000)	505363	20.0000	
$	2 2-Fluorophenol	112	3.810	3.634	(0.746)	82496	2.74307	2000
$	3 Phenol-d5	99	4.757	4.734	(0.932)	193685	4.86175	3500
*	20 Naphthalene-d8	136	6.462	6.457	(1.000)	1734211	20.0000	
$	21 Nitrobenzene-d5	82	5.698	5.693	(0.882)	126836	4.41437	3200
	30 Naphthalene	128	6.480	6.481	(1.003)	27991	0.31939	230
	34 2-Methylnaphthalene	142	7.227	7.228	(1.118)	16137	0.27941	200
*	35 Acenaphthene-d10	164	8.333	8.339	(1.000)	1428288	20.0000	
$	40 2-Fluorobiphenyl	172	7.627	7.634	(0.915)	366075	4.20172	3100
	46 Acenaphthene	153	8.368	8.375	(1.004)	57671	0.73202	530
	49 Dibenzofuran	168	8.550	8.563	(1.026)	37915	0.33360	240
	52 Fluorene	166	8.921	8.928	(1.071)	45842	0.52710	380
$	56 2,4,6-Tribromophenol	330	9.174	9.186	(1.101)	27540	2.21951	1600(R)
*	57 Phenanthrene-d10	188	9.921	9.922	(1.000)	2389622	20.0000	
	64 Phenanthrene	178	9.945	9.951	(1.002)	482462	3.92133	2900
	65 Carbazole	167	10.168	10.180	(1.025)	78938	0.66420	480
	66 Anthracene	178	9.997	10.004	(1.008)	119410	0.95036	690
	68 Fluoranthene	202	11.209	11.222	(1.130)	712280	5.33232	3900

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	70 Chrysene-d12	240	12.891	12.904	(1.000)	1606442	20.0000	
	72 Pyrene	202	11.450	11.463	(0.888)	541129	5.09874	3700
$	73 Terphenyl-d14	244	11.627	11.633	(0.902)	342659	5.11426	3700
	76 Benzo(a)anthracene	228	12.874	12.886	(0.999)	206041	2.31060	1700
	77 Chrysene	228	12.921	12.939	(1.002)	190023	2.25797	1600
	78 Bis(2-Ethylhexyl)phthalate	149	12.927	12.933	(1.003)	20746	0.43989	320
*	79 Perylene-d12	264	15.238	15.257	(1.000)	697176	20.0000	
	81 Benzo(b)fluoranthene	252	14.550	14.568	(0.955)	138306	5.49834	4000
	82 Benzo(k)fluoranthene	252	14.591	14.615	(0.958)	55998	0.96573	700
	83 Benzo(a)pyrene	252	15.132	15.151	(0.993)	81297	1.96112	1400
	84 Indeno(1,2,3-cd)pyrene	276	17.362	17.386	(1.139)	47484	1.76104	1300
	85 Dibenzo(a,h)anthracene	278	17.421	17.445	(1.143)	10190	0.35668	260
	86 Benzo(g,h,i)perylene	276	17.920	17.945	(1.176)	43597	1.54189	1100

QC Flag Legend

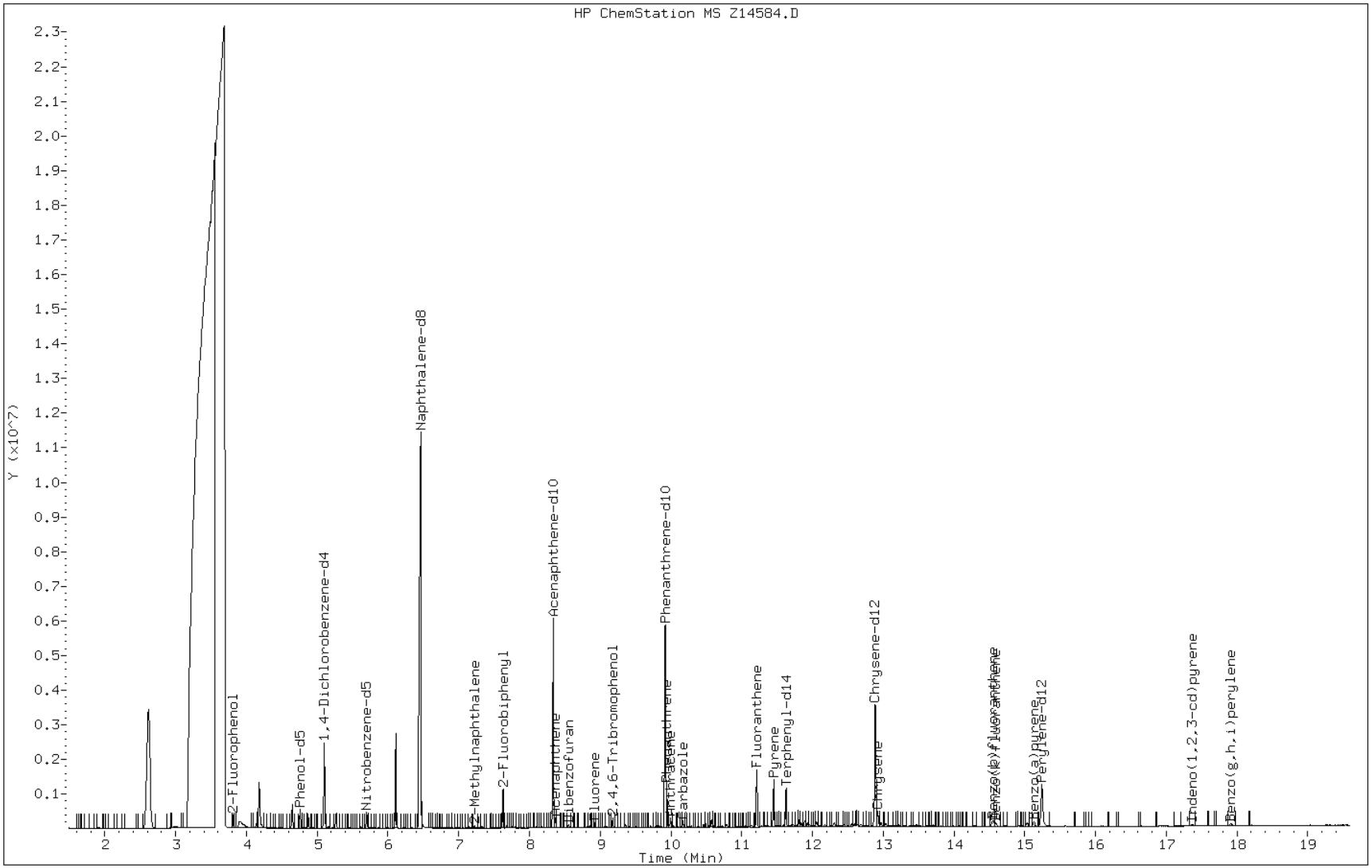
R - Spike/Surrogate failed recovery limits.

Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas



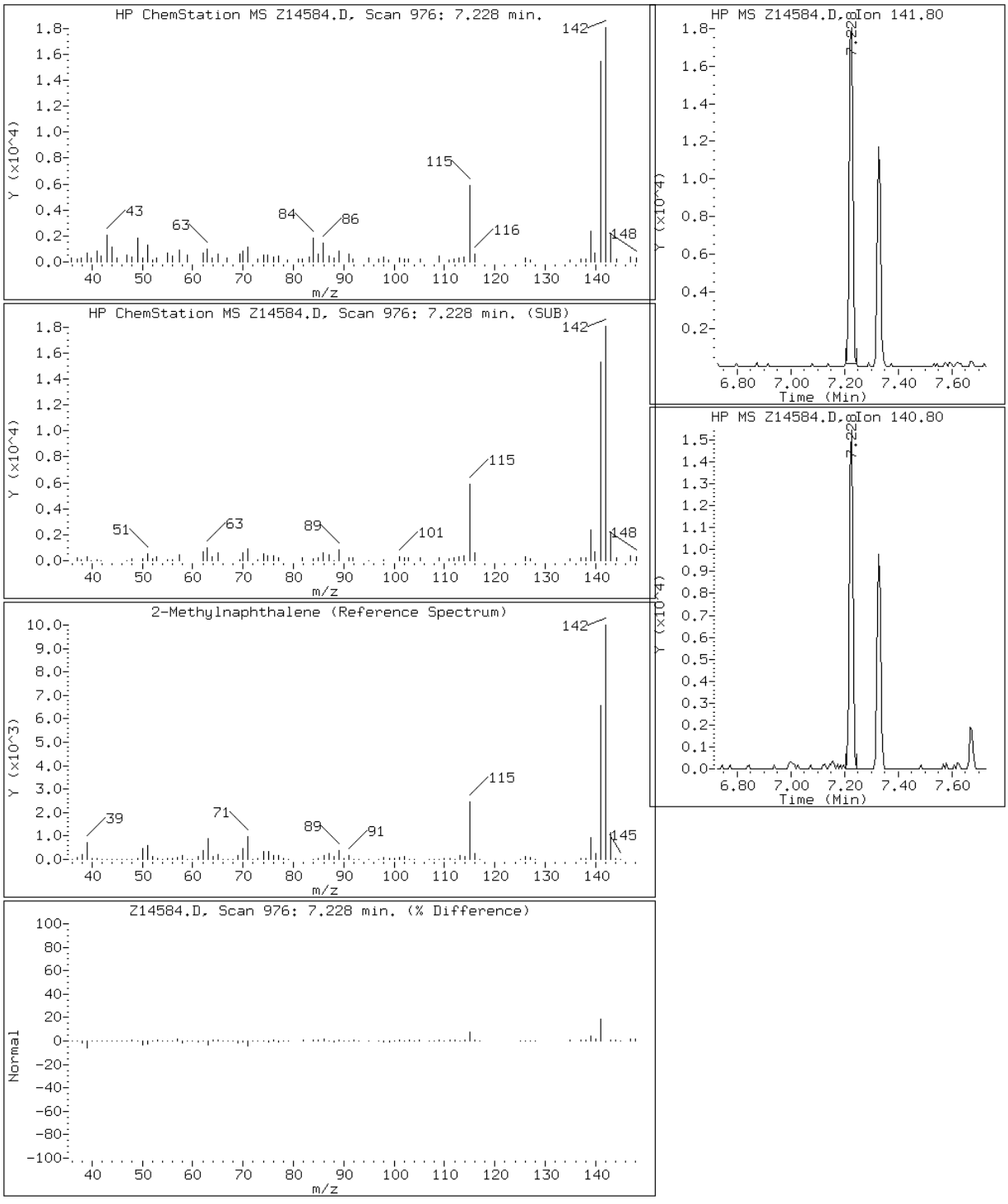
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

34 2-Methylnaphthalene



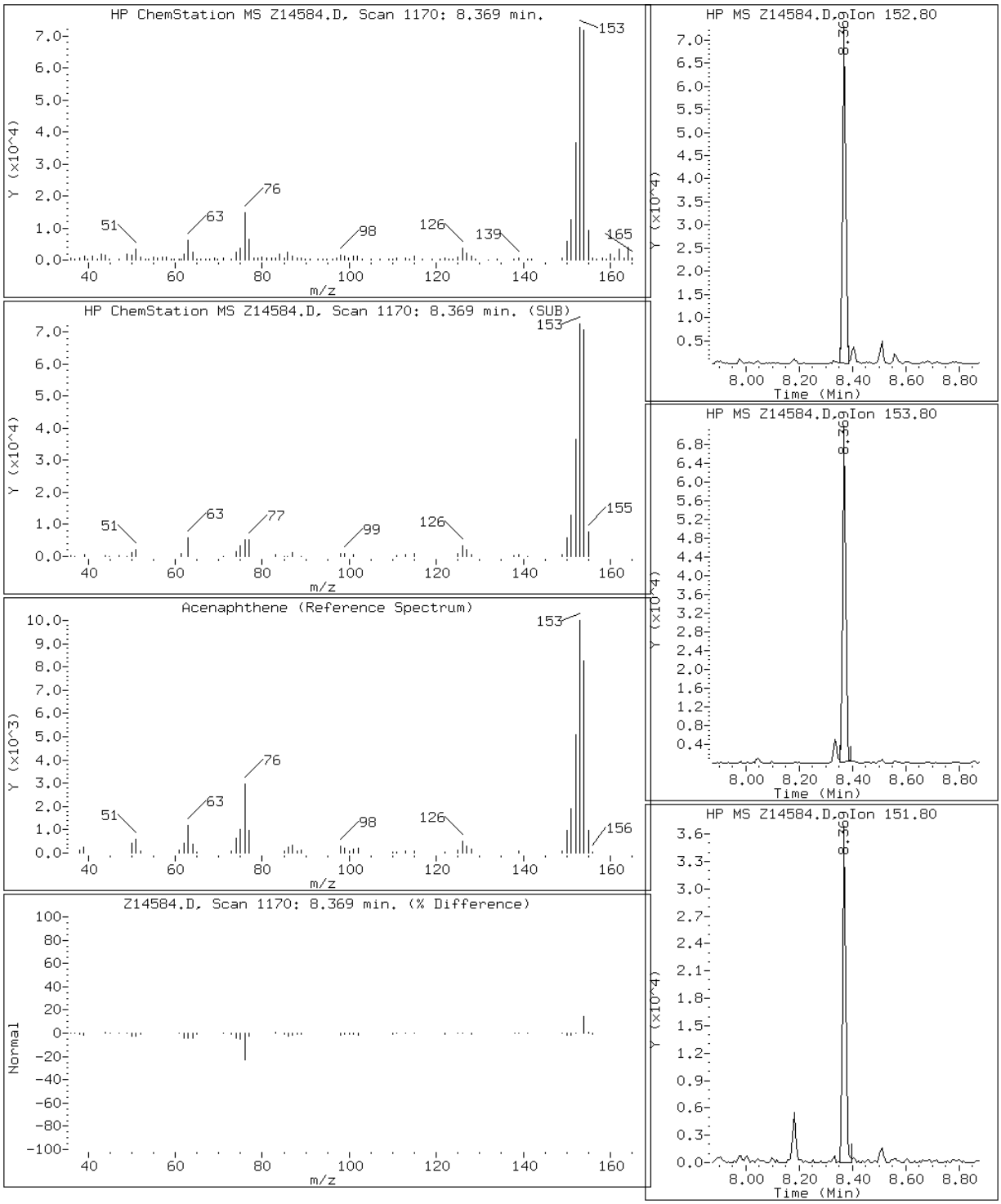
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

46 Acenaphthene



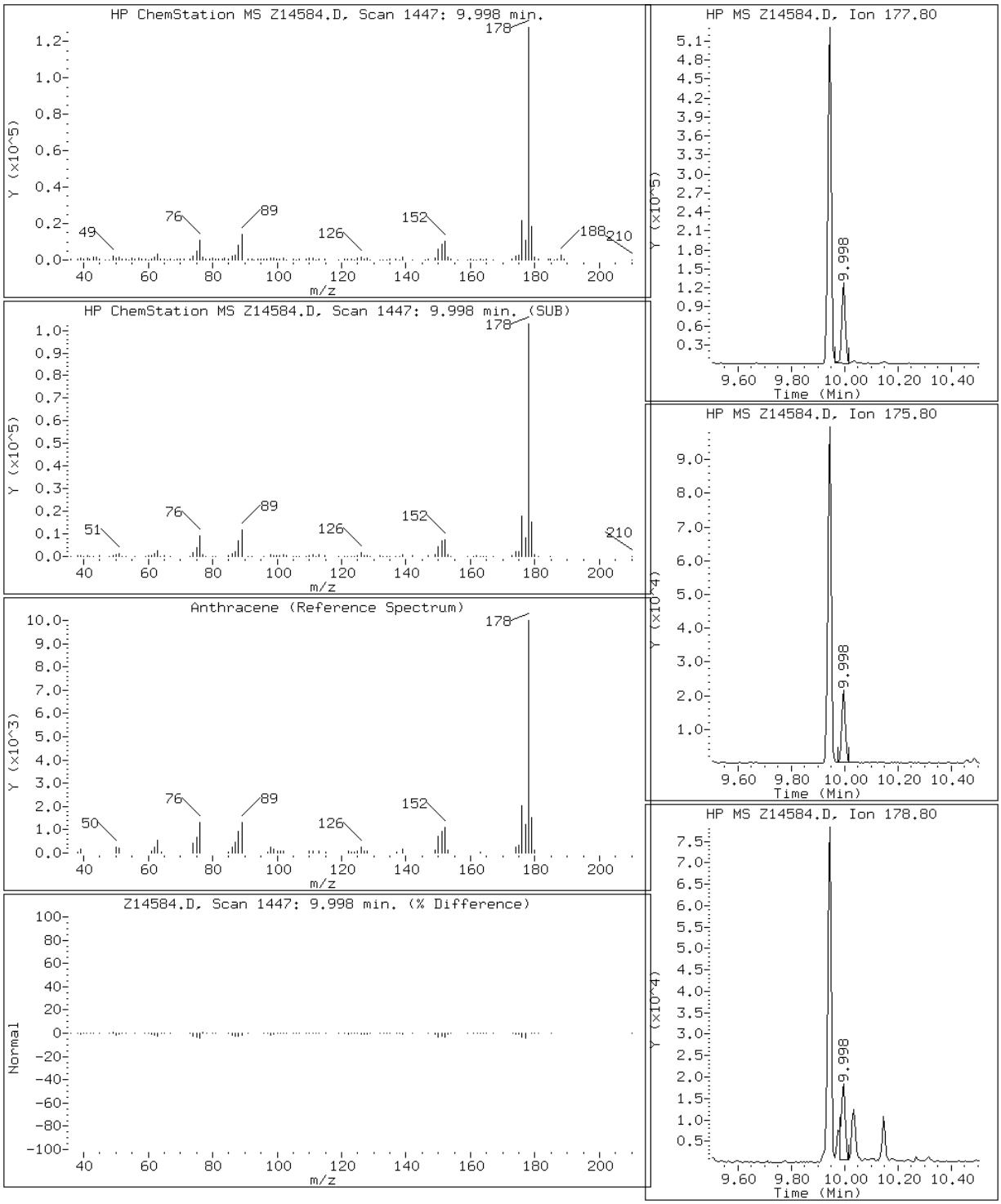
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

66 Anthracene



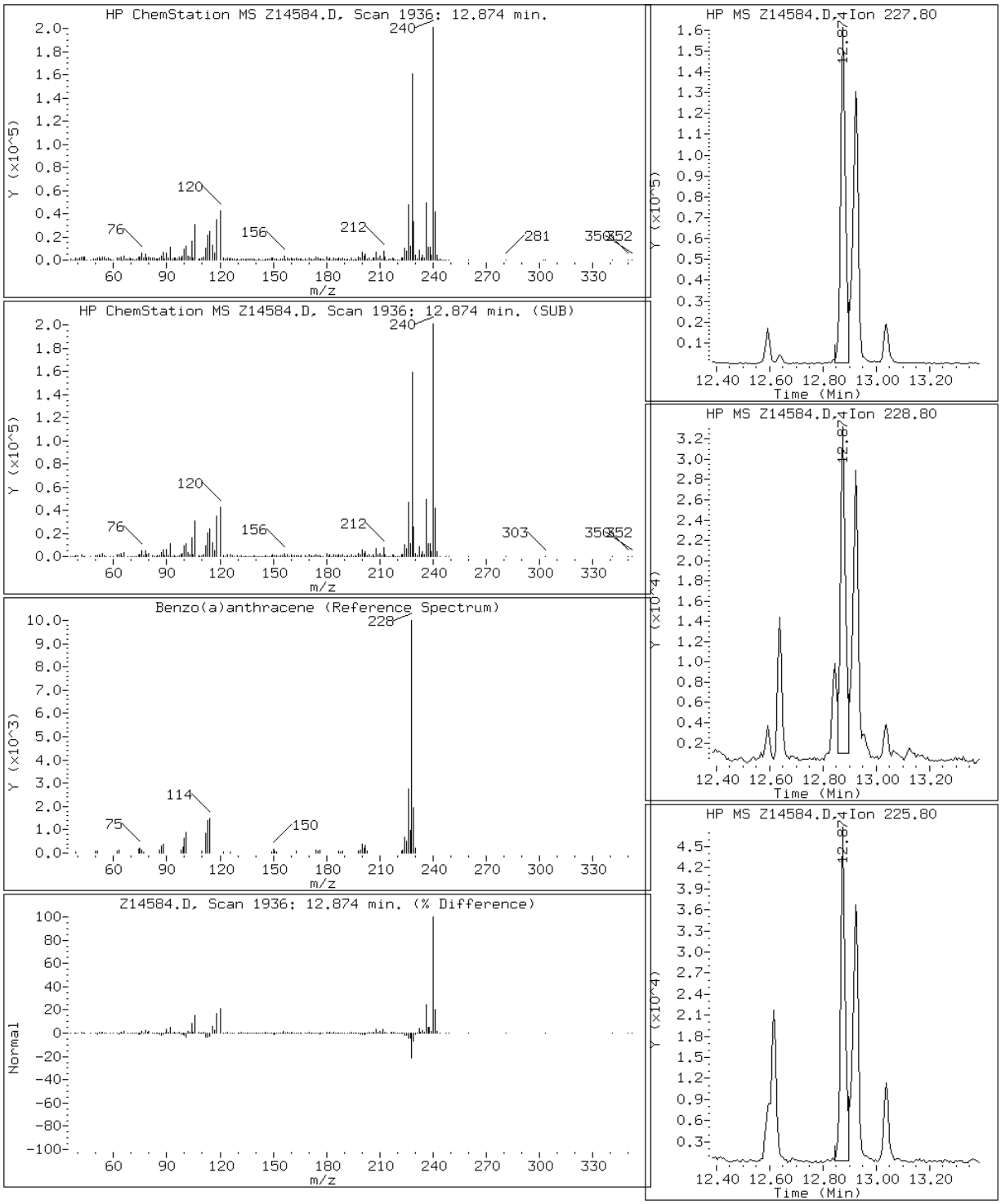
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

76 Benzo(a)anthracene



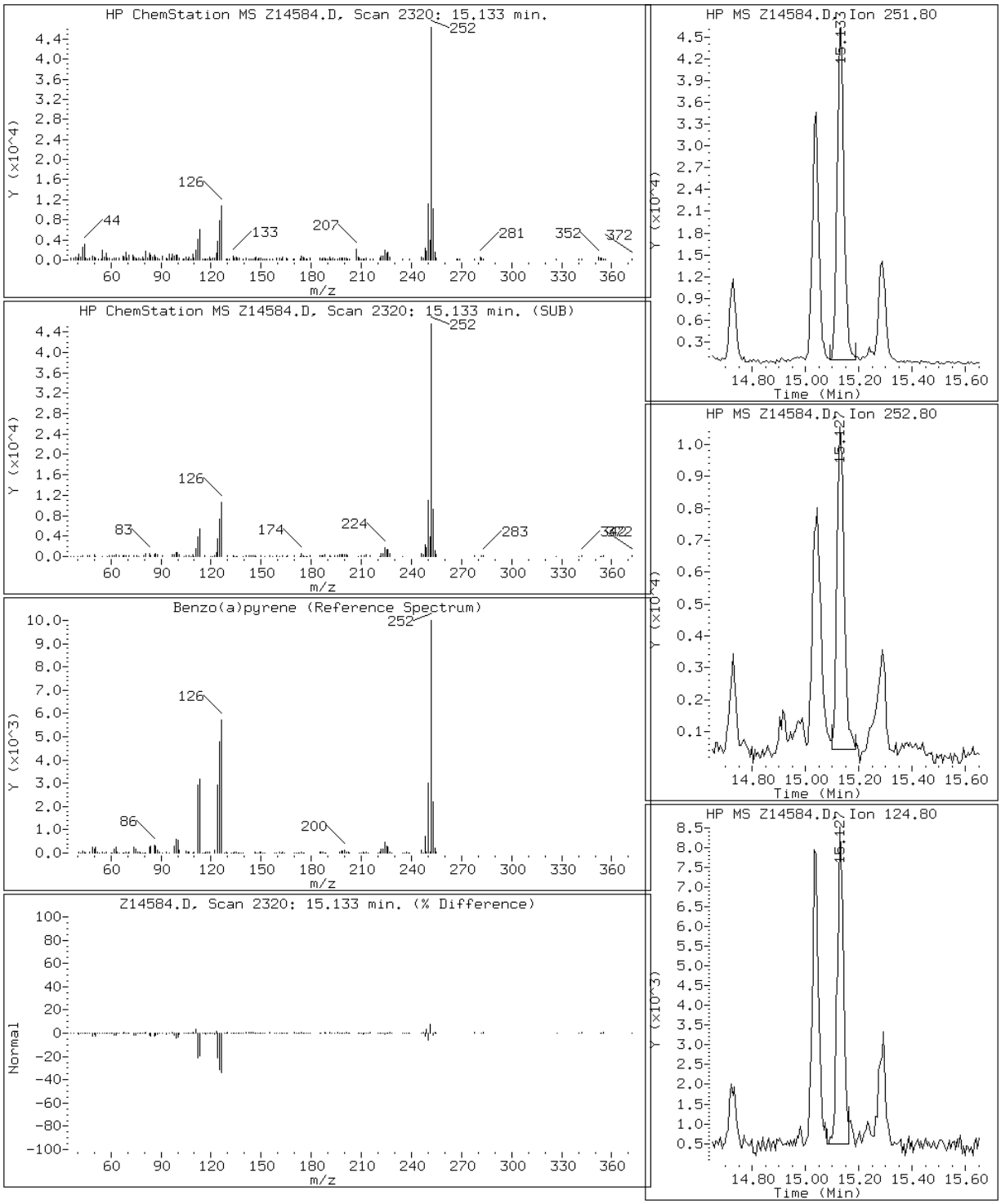
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

83 Benzo(a)pyrene



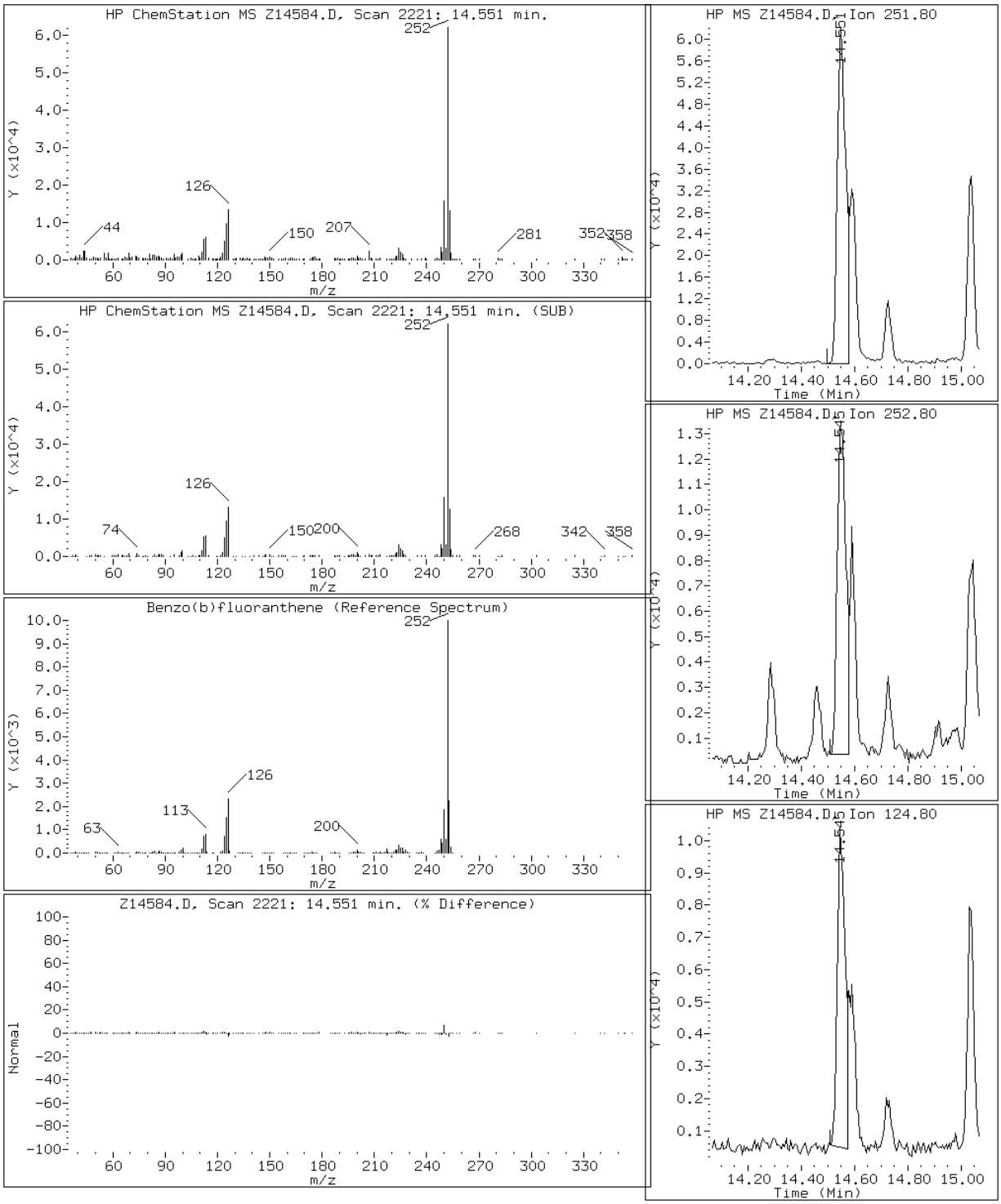
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

81 Benzo(b)fluoranthene



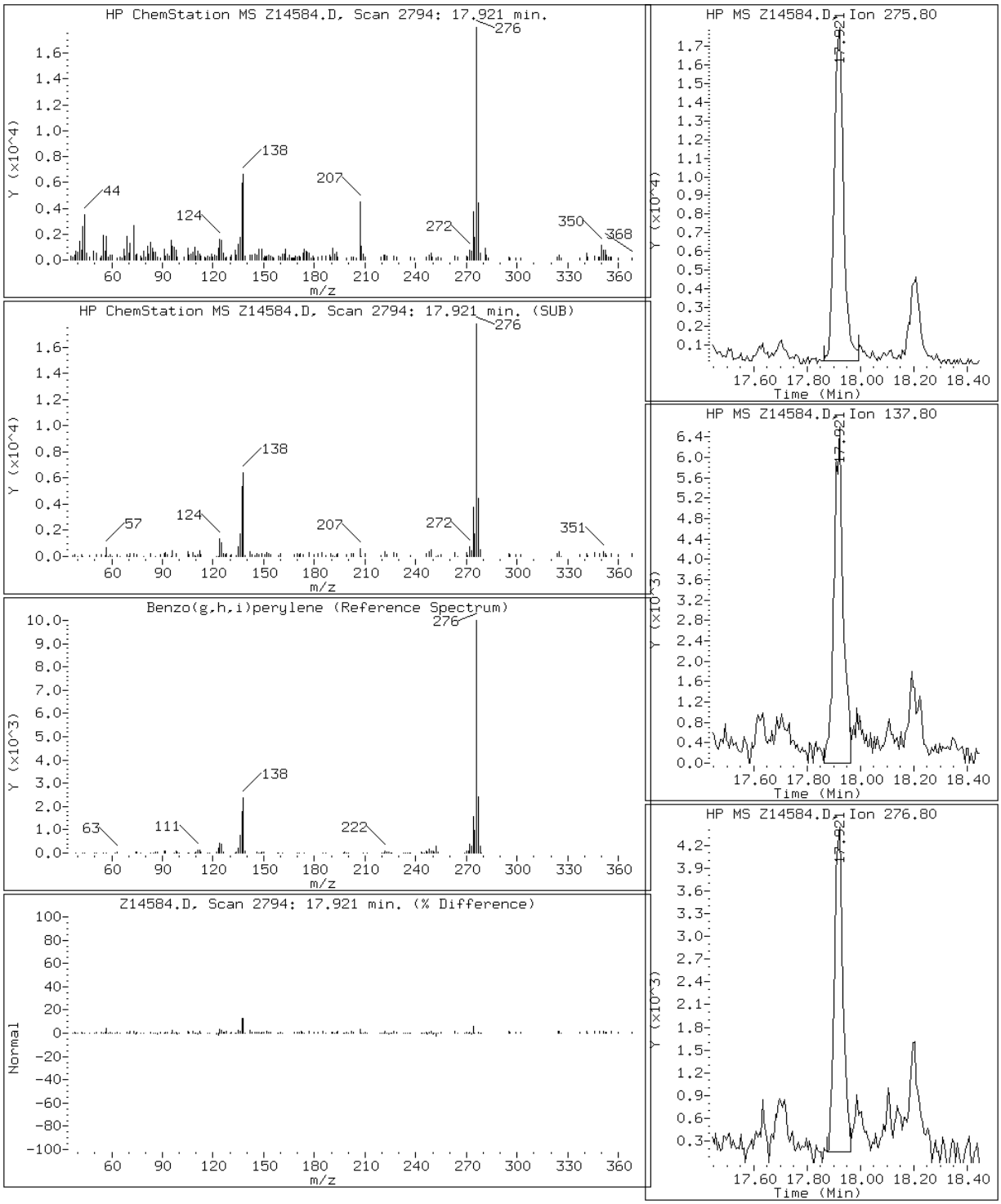
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

86 Benzo(g,h,i)perylene



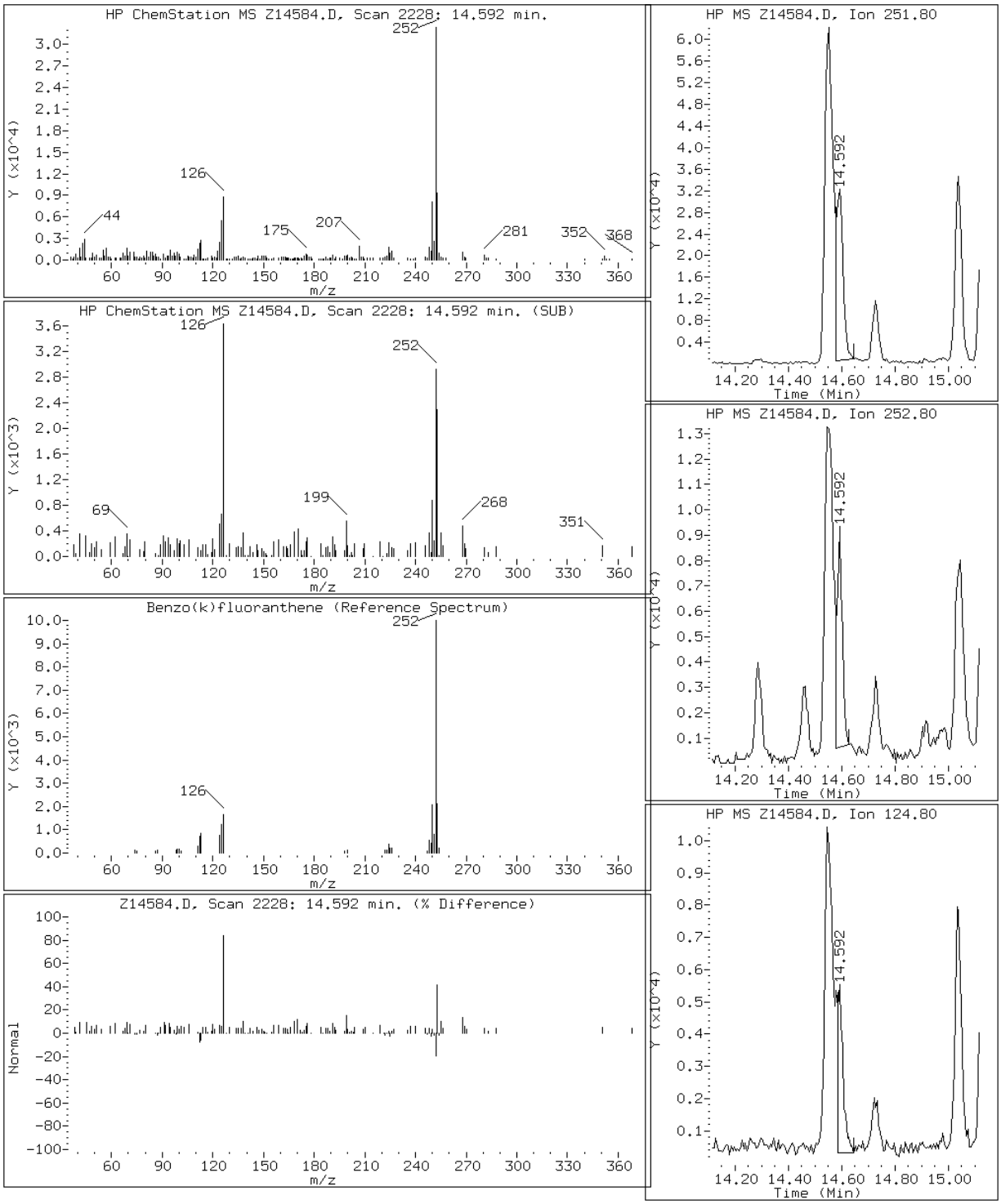
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

82 Benzo(k)fluoranthene



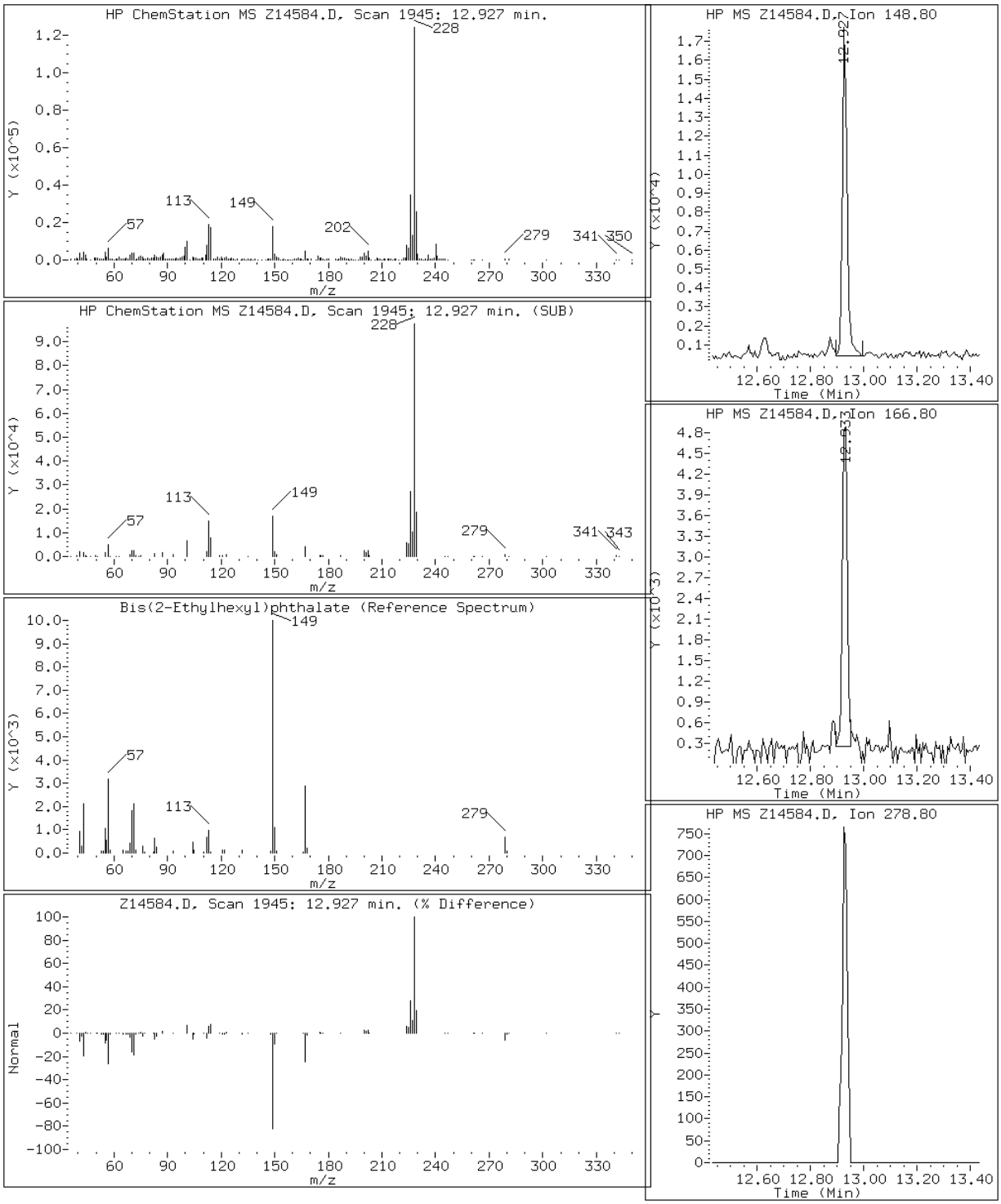
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



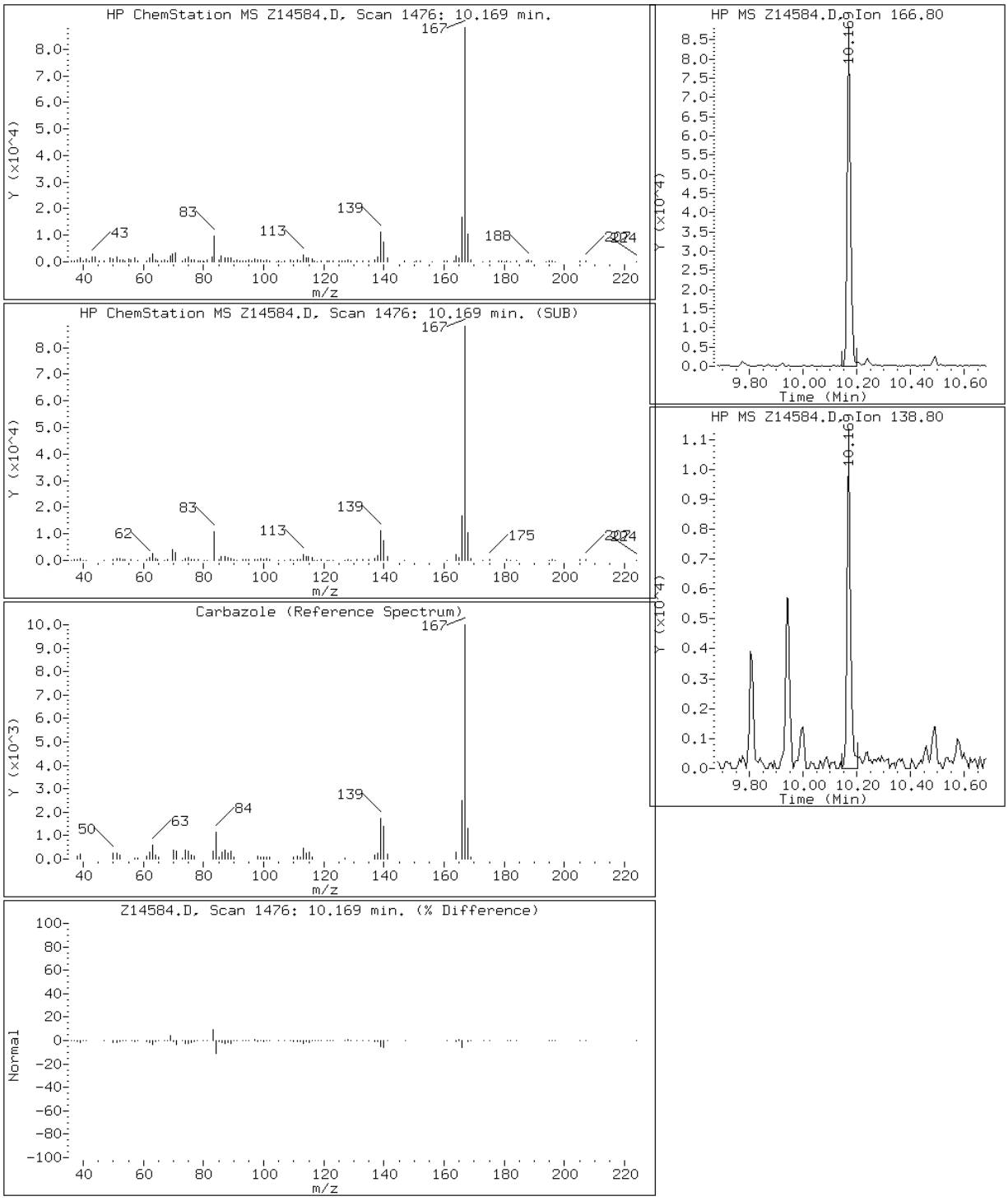
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

65 Carbazole



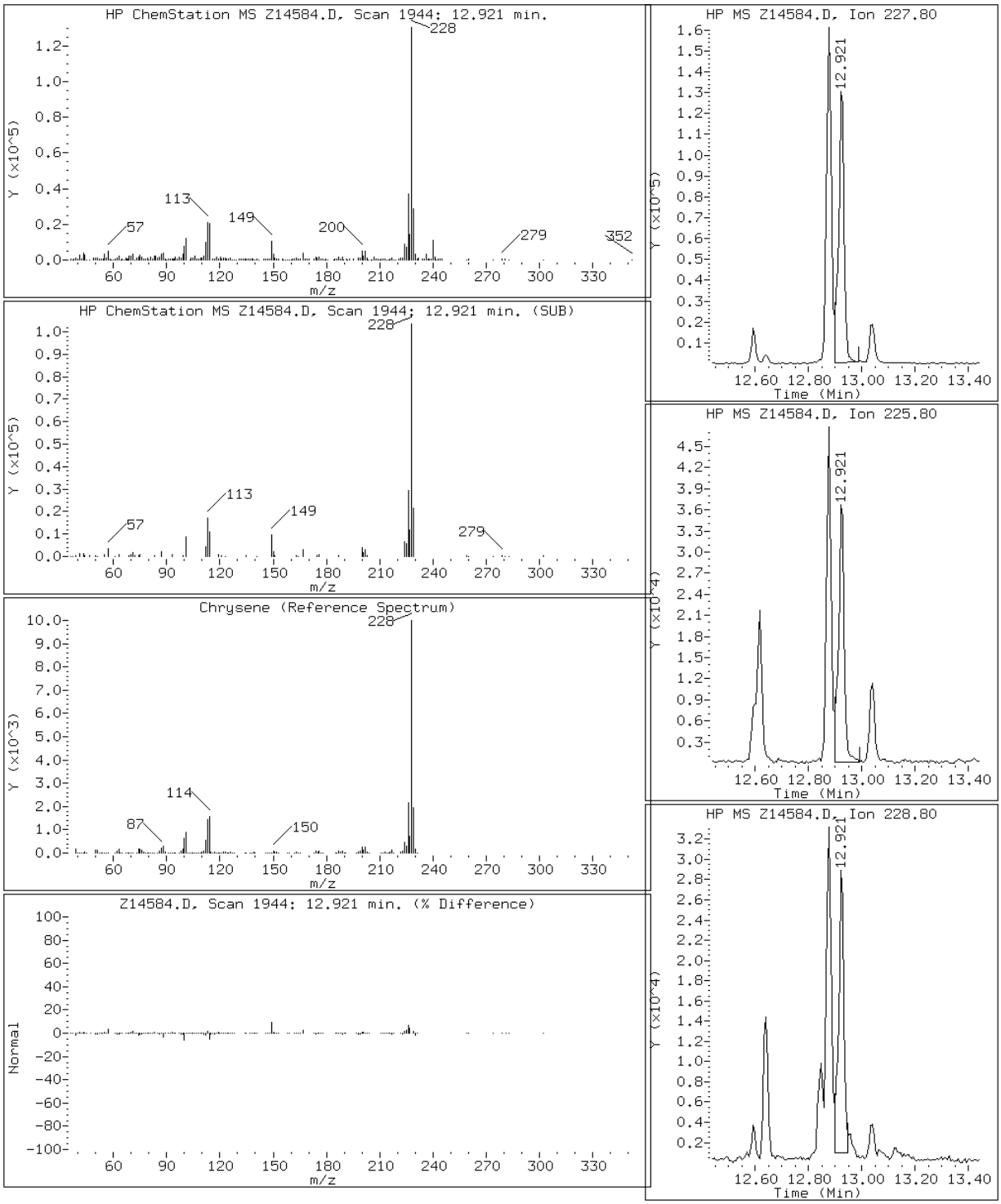
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

77 Chrysene



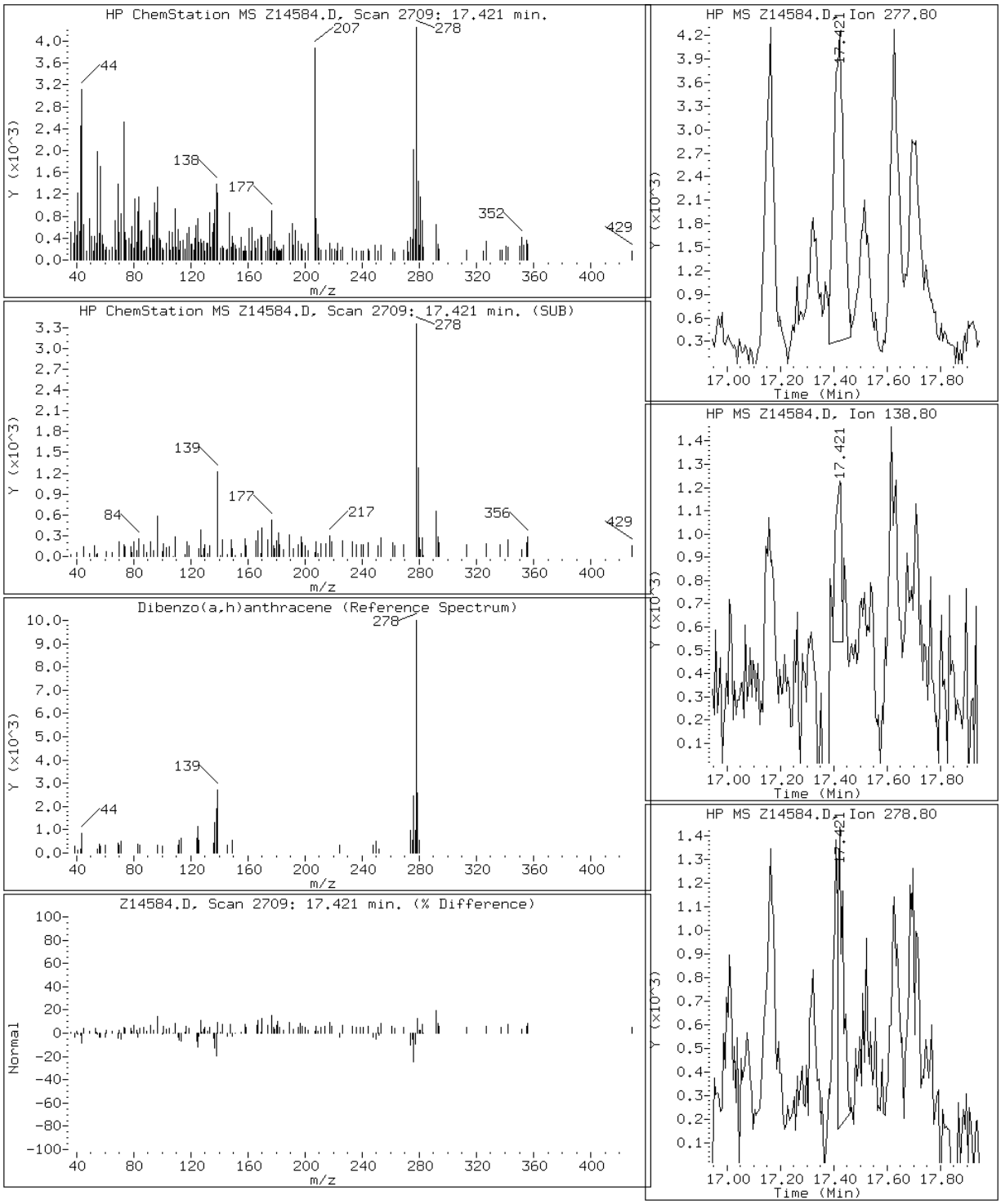
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

85 Dibenzo(a,h)anthracene



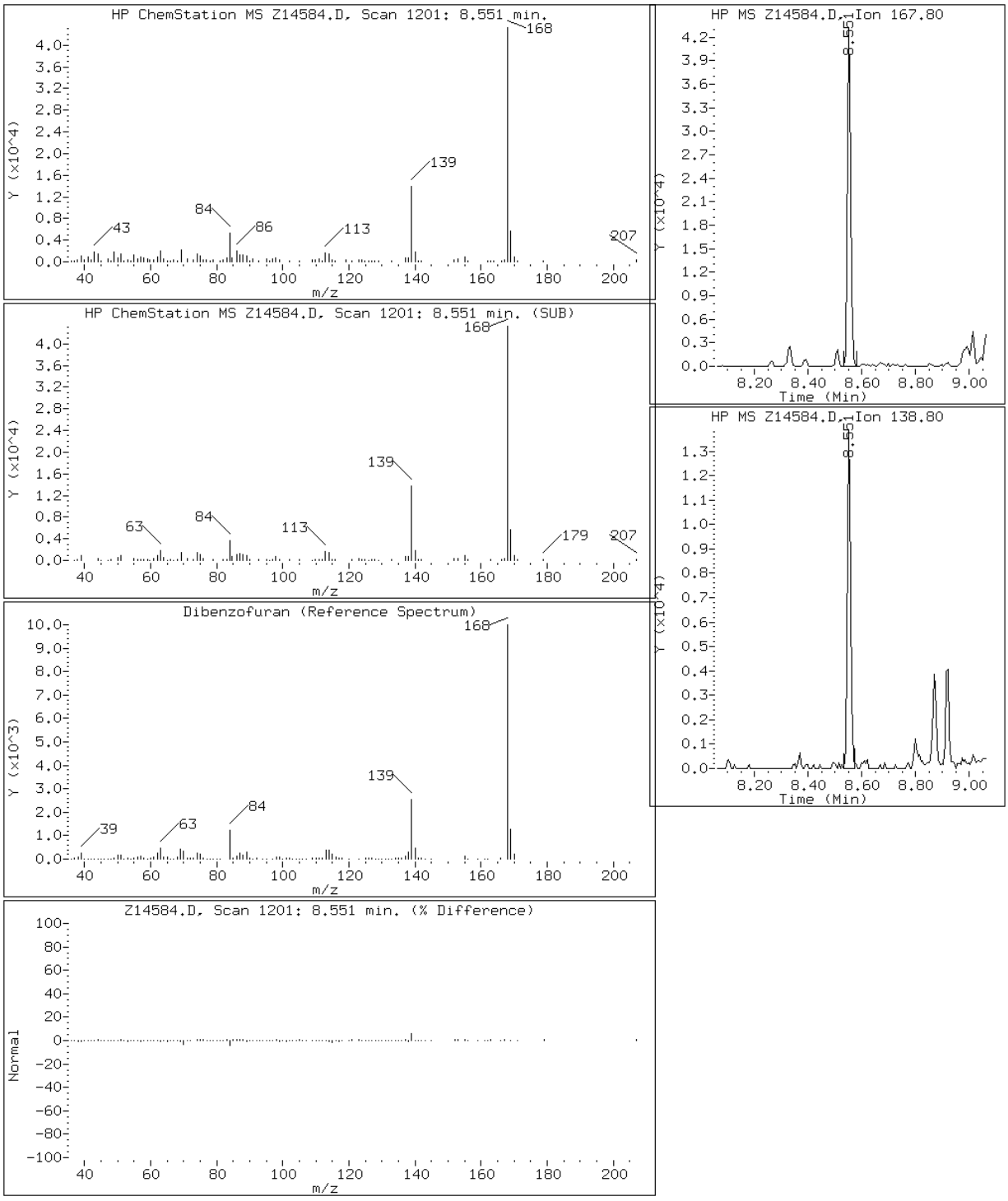
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

49 Dibenzofuran



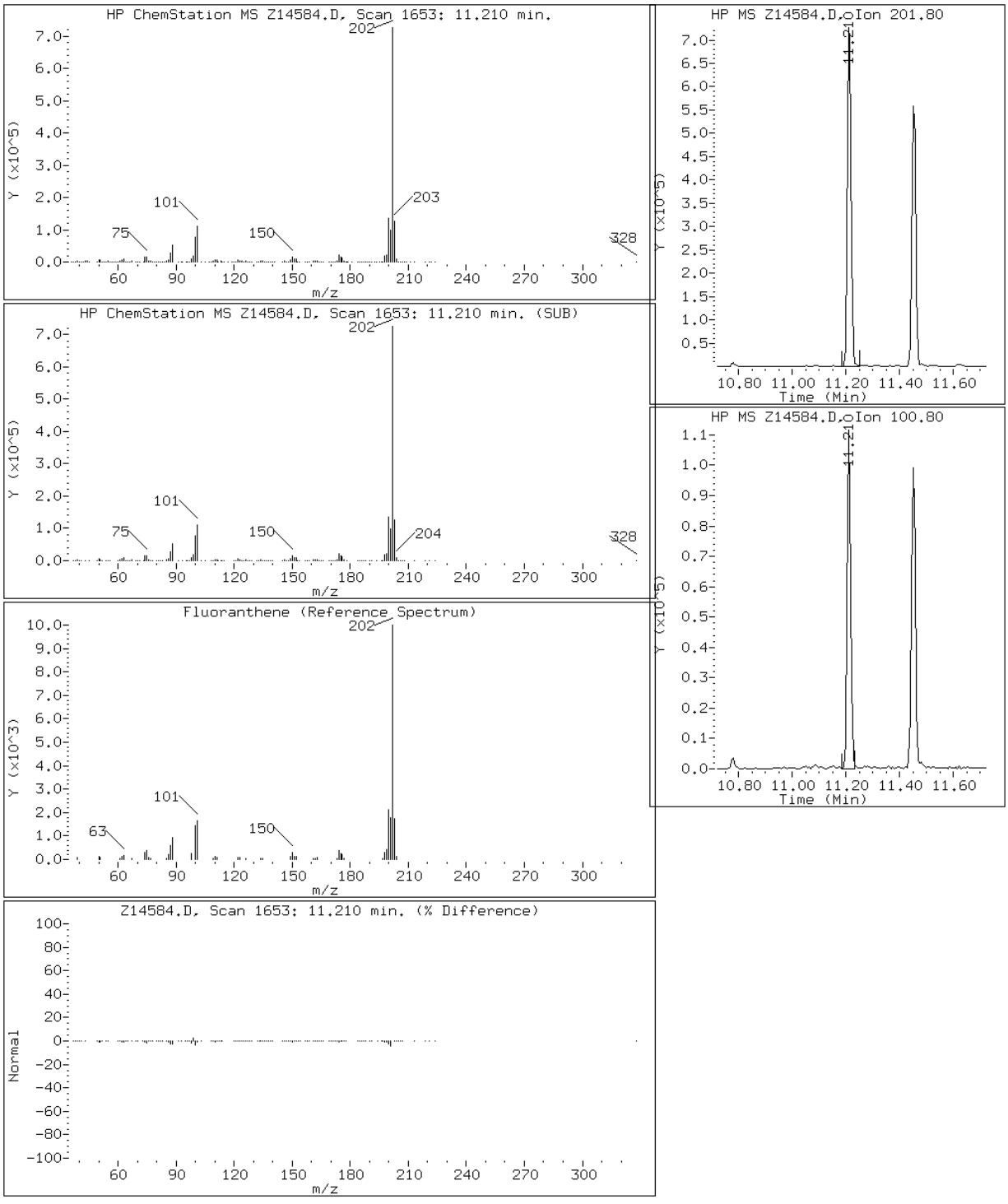
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

68 Fluoranthene



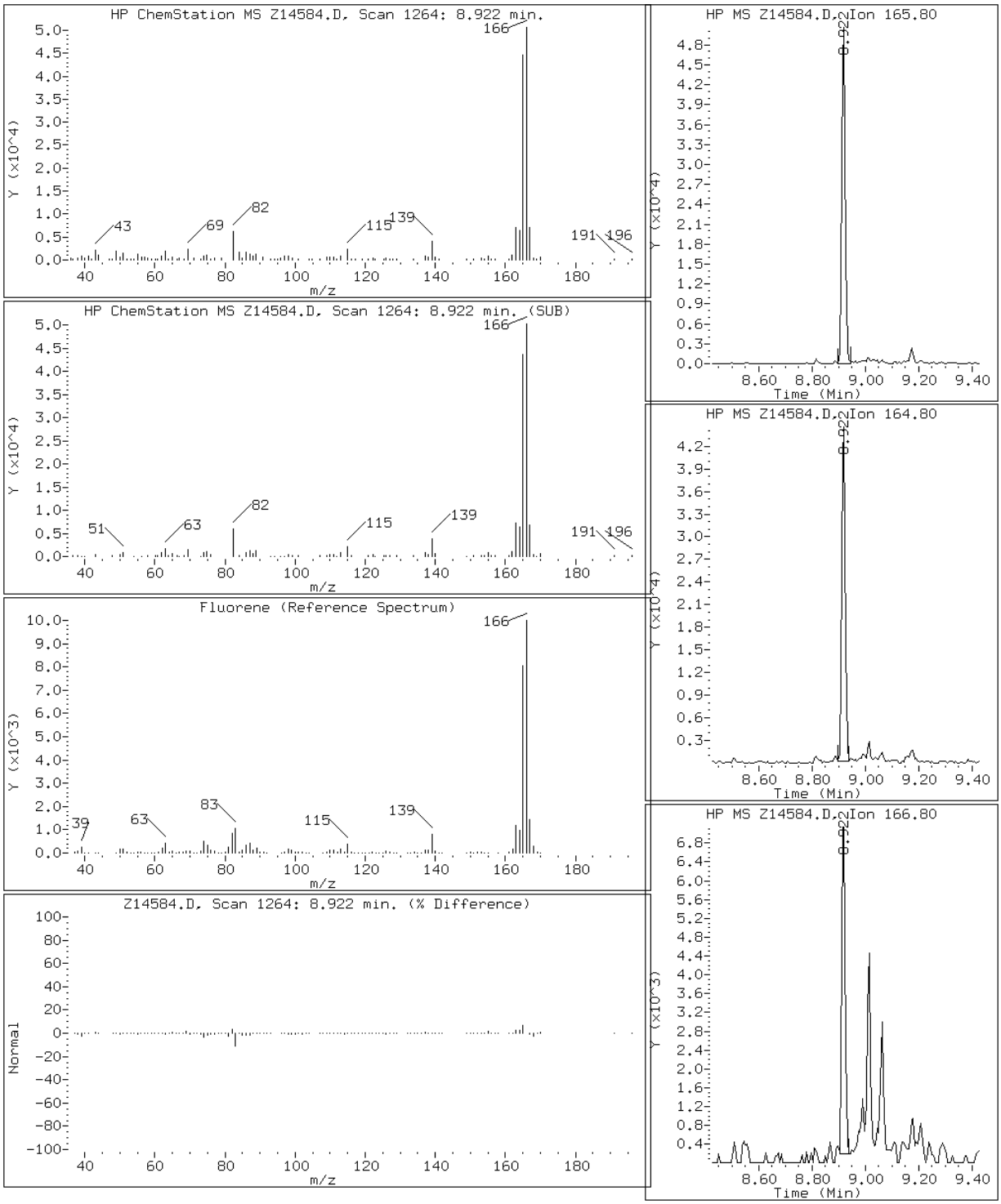
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

52 Fluorene



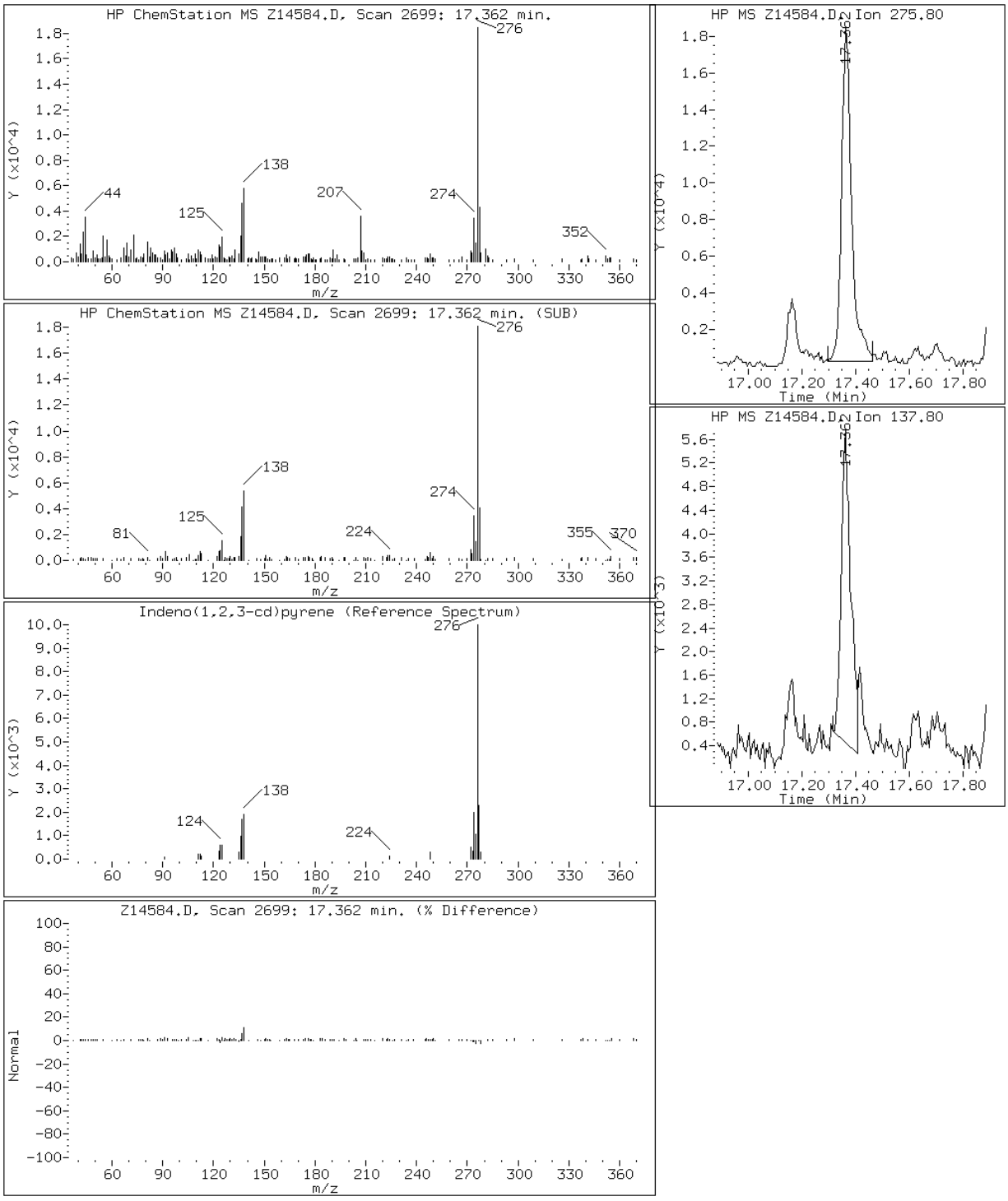
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



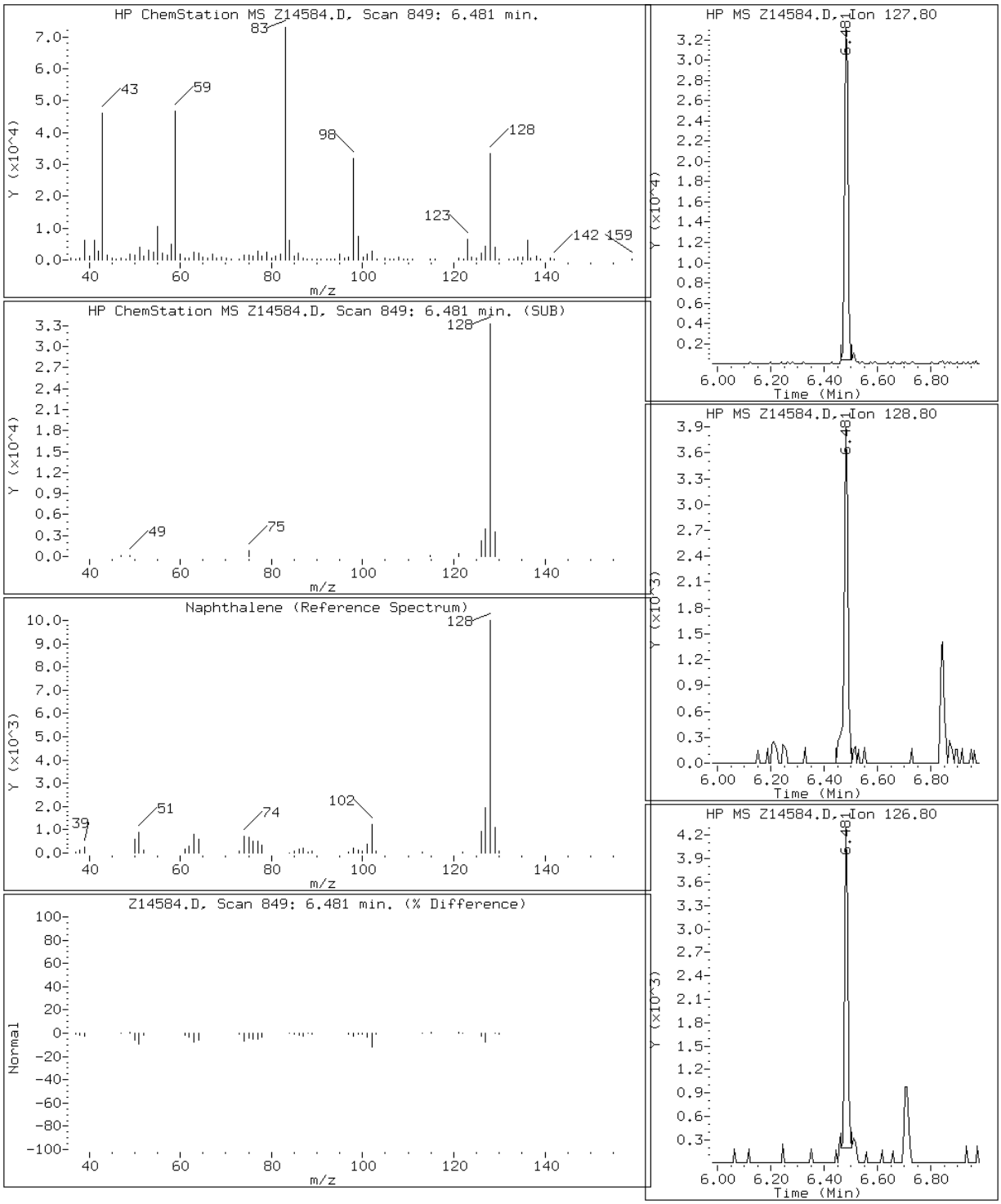
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

30 Naphthalene



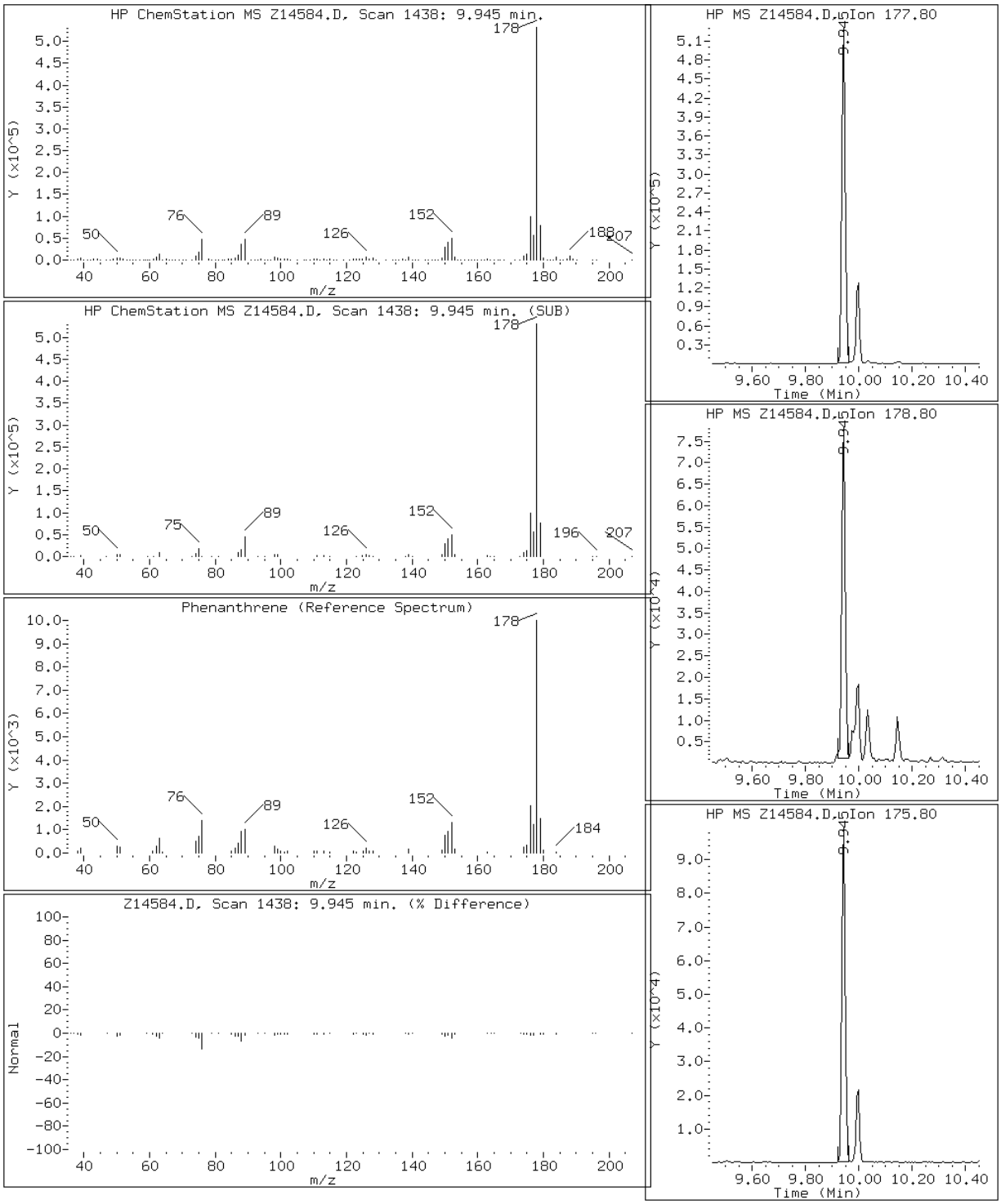
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

64 Phenanthrene



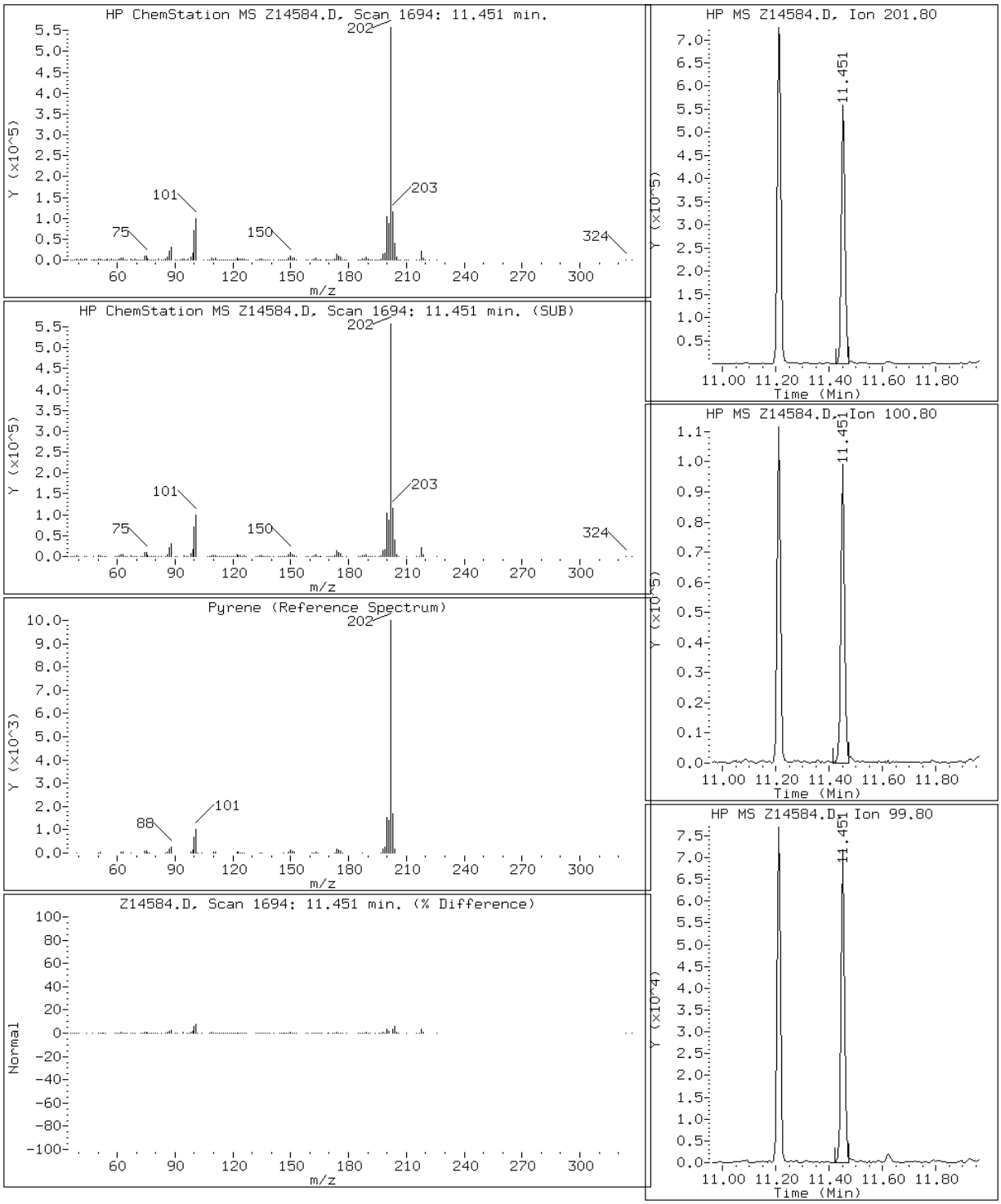
Data File: Z14584.D

Date: 21-DEC-2009 18:55

Client ID: PBL-5-10-S(2') Instrument: msz.i

Sample Info: 220-11066-A-5-B;10 Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') | Lab Sample ID: 220-11066-6

Matrix: Solid | Lab File ID: A9267.D

Analysis Method: 8270C | Date Collected: 12/15/2009 09:10

Extract. Method: 3541 | Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.53(g) | Date Analyzed: 12/23/2009 10:44

Con. Extract Vol.: .5(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	11000		6400	410
95-95-4	2,4,5-Trichlorophenol	40000	U	40000	320
88-06-2	2,4,6-Trichlorophenol	6400	U	6400	170
120-83-2	2,4-Dichlorophenol	6400	U	6400	340
105-67-9	2,4-Dimethylphenol	6400	U	6400	310
121-14-2	2,4-Dinitrotoluene	6400	U	6400	510
51-28-5	2,4-Dinitrophenol	40000	U	40000	1900
606-20-2	2,6-Dinitrotoluene	6400	U	6400	190
91-58-7	2-Chloronaphthalene	6400	U	6400	270
95-57-8	2-Chlorophenol	6400	U	6400	370
91-57-6	2-Methylnaphthalene	9500		6400	180
95-48-7	2-Methylphenol	6400	U	6400	380
88-74-4	2-Nitroaniline	16000	U	16000	390
88-75-5	2-Nitrophenol	6400	U	6400	400
91-94-1	3,3'-Dichlorobenzidine	7800	U	7800	1300
99-09-2	3-Nitroaniline	16000	U	16000	200
534-52-1	4,6-Dinitro-2-methylphenol	40000	U	40000	2700
101-55-3	4-Bromophenyl phenyl ether	6400	U	6400	410
59-50-7	4-Chloro-3-methylphenol	6400	U	6400	260
106-47-8	4-Chloroaniline	6400	U	6400	1000
7005-72-3	4-Chlorophenyl phenyl ether	6400	U	6400	470
106-44-5	4-Methylphenol	6400	U	6400	420
100-01-6	4-Nitroaniline	6400	U	6400	490
100-02-7	4-Nitrophenol	40000	U	40000	480
83-32-9	Acenaphthene	48000		6400	380
208-96-8	Acenaphthylene	10000		6400	310
98-86-2	Acetophenone	6400	U	6400	330
120-12-7	Anthracene	26000		6400	250
1912-24-9	Atrazine	7800	U	7800	400
100-52-7	Benzaldehyde	6400	U	6400	1100
56-55-3	Benzo[a]anthracene	13000	B	6400	230
50-32-8	Benzo[a]pyrene	9500	B	6400	170
205-99-2	Benzo[b]fluoranthene	6700	B	6400	170
191-24-2	Benzo[g,h,i]perylene	2500	J	6400	410

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') | Lab Sample ID: 220-11066-6

Matrix: Solid | Lab File ID: A9267.D

Analysis Method: 8270C | Date Collected: 12/15/2009 09:10

Extract. Method: 3541 | Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.53(g) | Date Analyzed: 12/23/2009 10:44

Con. Extract Vol.: .5(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	2900	J	6400	570
111-91-1	Bis(2-chloroethoxy)methane	6400	U	6400	290
111-44-4	Bis(2-chloroethyl)ether	6400	U	6400	330
117-81-7	Bis(2-ethylhexyl) phthalate	6400	U	6400	610
85-68-7	Butyl benzyl phthalate	6400	U	6400	360
105-60-2	Caprolactam	6400	U	6400	500
86-74-8	Carbazole	420	J	6400	350
218-01-9	Chrysene	12000		6400	470
84-74-2	Di-n-butyl phthalate	6400	U	6400	920
117-84-0	Di-n-octyl phthalate	6400	U	6400	360
53-70-3	Dibenz(a,h)anthracene	770	J	6400	500
132-64-9	Dibenzofuran	3400	J	6400	450
84-66-2	Diethyl phthalate	6400	U	6400	640
131-11-3	Dimethyl phthalate	6400	U	6400	370
206-44-0	Fluoranthene	25000		6400	320
86-73-7	Fluorene	31000		6400	380
118-74-1	Hexachlorobenzene	6400	U	6400	440
87-68-3	Hexachlorobutadiene	6400	U	6400	490
77-47-4	Hexachlorocyclopentadiene	16000	U	16000	3000
67-72-1	Hexachloroethane	6400	U	6400	360
193-39-5	Indeno[1,2,3-cd]pyrene	3100	J	6400	410
78-59-1	Isophorone	6400	U	6400	350
621-64-7	N-Nitrosodi-n-propylamine	6400	U	6400	430
86-30-6	N-Nitrosodiphenylamine	6400	U	6400	360
91-20-3	Naphthalene	16000		6400	330
98-95-3	Nitrobenzene	6400	U	6400	410
87-86-5	Pentachlorophenol	16000	U	16000	3900
85-01-8	Phenanthrene	81000		6400	310
108-95-2	Phenol	6400	U	6400	420
129-00-0	Pyrene	36000		6400	300
108-60-1	2,2'-oxybis[1-chloropropane]	6400	U	6400	330

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') | Lab Sample ID: 220-11066-6

Matrix: Solid | Lab File ID: A9267.D

Analysis Method: 8270C | Date Collected: 12/15/2009 09:10

Extract. Method: 3541 | Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.53(g) | Date Analyzed: 12/23/2009 10:44

Con. Extract Vol.: .5(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	73	37-120	
321-60-8	2-Fluorobiphenyl	71	41-120	
367-12-4	2-Fluorophenol	55	34-120	
4165-60-0	Nitrobenzene-d5	56	38-120	
4165-62-2	Phenol-d5	58	36-120	
1718-51-0	Terphenyl-d14	95	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099261.b\A9267.D
Lab Smp Id: 220-11066-A-6-E Client Smp ID: PBL-1-30-E(9')
Inj Date : 23-DEC-2009 10:44
Operator : S.Jonas Inst ID: msa.i
Smp Info : 220-11066-A-6-E;20re
Misc Info : 220-11066-A-6-E
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099261.b\MSA-8270C.m
Meth Date : 23-Dec-2009 08:10 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 17:59 Cal File: Aa9222.D
Als bottle: 6
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	0.50000	Volume of final extract (mL)(1000 low, 2
Ws	7.530	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	15.442	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.787	4.787	(1.000)	300850	20.0000	
$ 2	2-Fluorophenol	112	3.345	3.339	(0.699)	33838	2.06124	3200
$ 3	Phenol-d5	99	4.449	4.467	(0.929)	54678	2.17413	3400
* 20	Naphthalene-d8	136	6.146	6.152	(1.000)	1412356	20.0000	
$ 21	Nitrobenzene-d5	82	5.387	5.399	(0.876)	34885	1.41121	2200
30	Naphthalene	128	6.170	6.176	(1.004)	722063	10.0200	16000
34	2-Methylnaphthalene	142	6.912	6.918	(1.125)	302134	6.05345	9500
* 35	Acenaphthene-d10	164	8.010	8.016	(1.000)	997522	20.0000	
$ 40	2-Fluorobiphenyl	172	7.316	7.322	(0.913)	100404	1.77465	2800
130	1,1'-Biphenyl	154	7.411	7.422	(0.925)	401623	6.73806	11000
43	Acenaphthylene	152	7.856	7.868	(0.981)	586456	6.65692	10000
46	Acenaphthene	153	8.046	8.052	(1.004)	1686554	30.8217	48000
49	Dibenzofuran	168	8.230	8.236	(1.027)	160174	2.15328	3400
52	Fluorene	166	8.592	8.598	(1.073)	1215152	19.4567	31000
$ 56	2,4,6-Tribromophenol	330	8.847	8.859	(1.104)	24958	2.74666	4300
* 57	Phenanthrene-d10	188	9.583	9.583	(1.000)	1870904	20.0000	
64	Phenanthrene	178	9.613	9.613	(1.003)	5208758	51.4043	81000
65	Carbazole	167	9.832	9.844	(1.026)	26702	0.26638	420

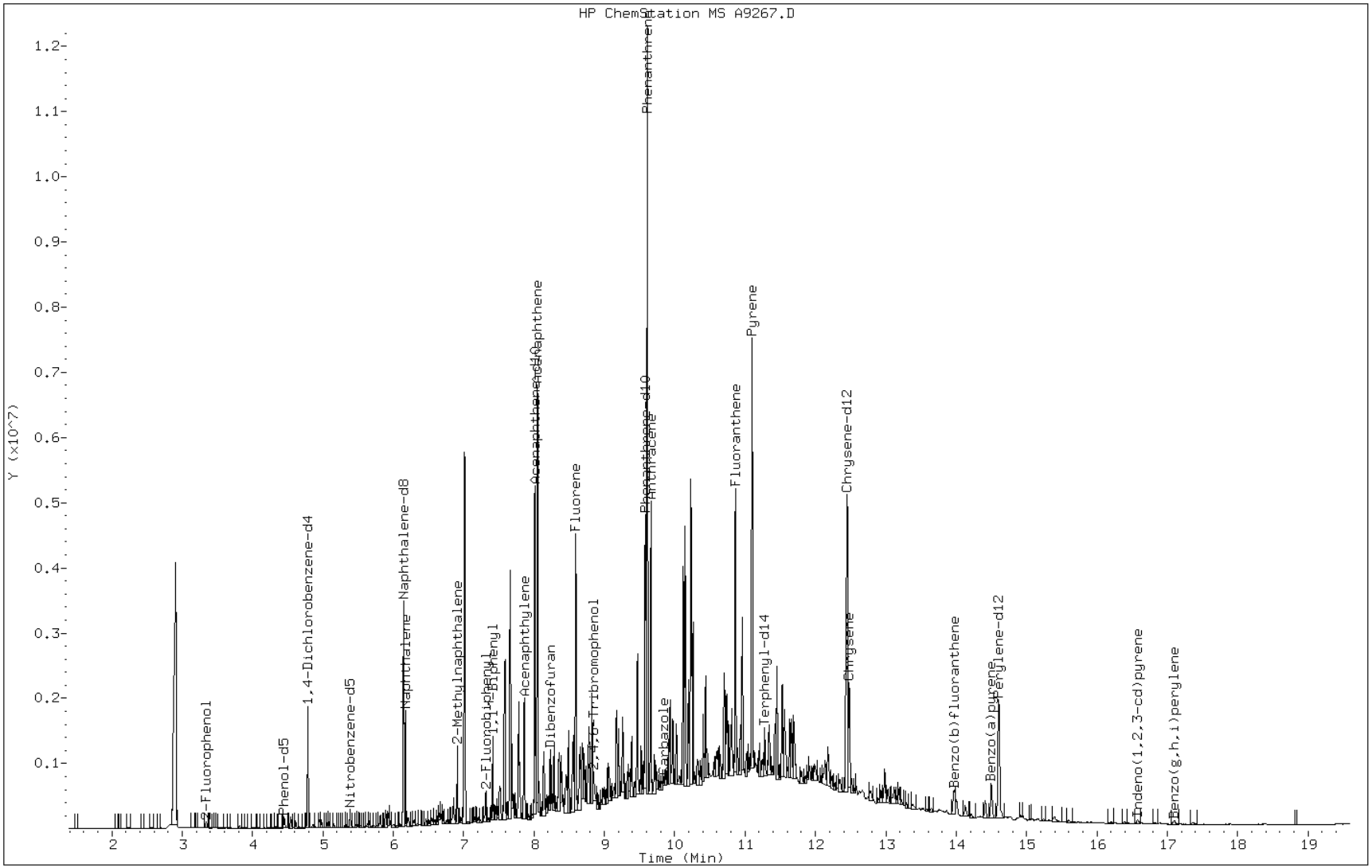
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	66 Anthracene	178	9.660	9.666	(1.008)	1685347	16.5348	26000
	68 Fluoranthene	202	10.865	10.871	(1.134)	1803502	16.0706	25000
*	70 Chrysene-d12	240	12.456	12.462	(1.000)	1973500	20.0000	
	72 Pyrene	202	11.102	11.108	(0.891)	2802663	23.2348	36000
$	73 Terphenyl-d14	244	11.280	11.286	(0.906)	187797	2.38629	3700
	76 Benzo(a)anthracene	228	12.438	12.450	(0.999)	818813	8.06477	13000
	77 Chrysene	228	12.479	12.497	(1.002)	771476	7.65748	12000
*	79 Perylene-d12	264	14.604	14.616	(1.000)	1048799	20.0000	
	81 Benzo(b)fluoranthene	252	13.969	13.987	(0.957)	315767	4.26812	6700
	82 Benzo(k)fluoranthene	252	14.005	14.040	(0.959)	153821	1.84648	2900
	83 Benzo(a)pyrene	252	14.497	14.527	(0.993)	349248	6.06758	9500
	84 Indeno(1,2,3-cd)pyrene	276	16.581	16.610	(1.135)	59383	1.96782	3100
	85 Dibenzo(a,h)anthracene	278	16.628	16.670	(1.139)	16017	0.48779	770
	86 Benzo(g,h,i)perylene	276	17.091	17.133	(1.170)	51767	1.56552	2500

Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas



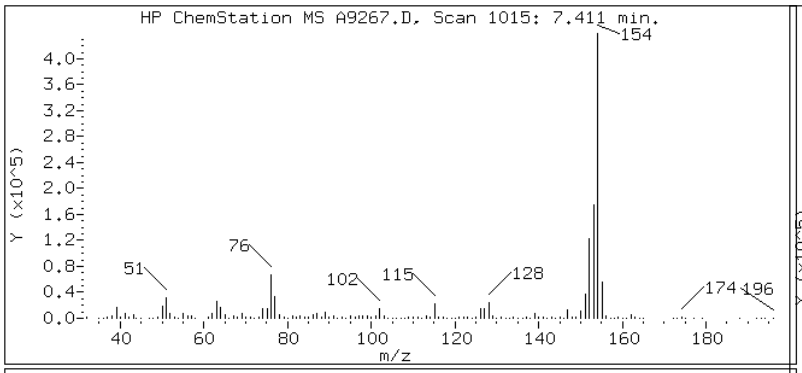
Data File: A9267.D

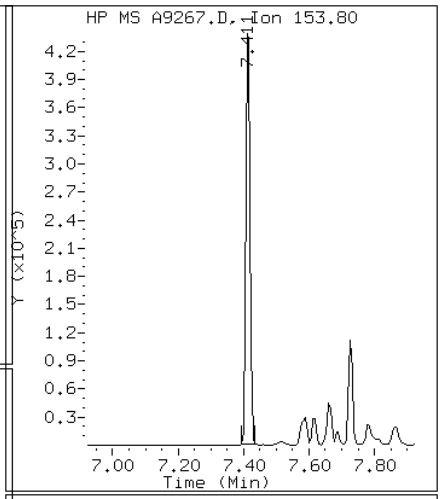
Date: 23-DEC-2009 10:44

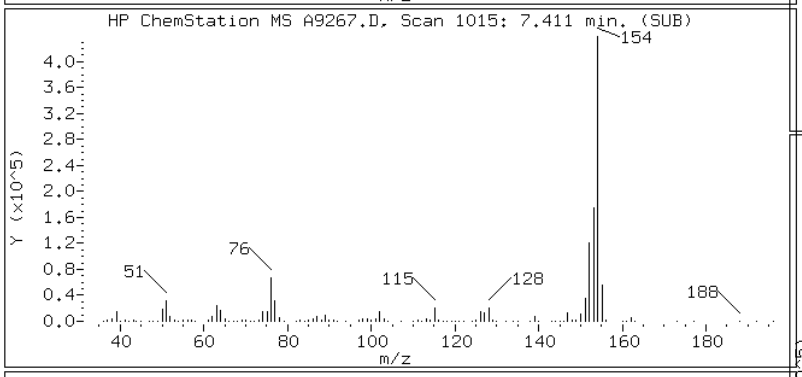
Client ID: PBL-1-30-E(9') Instrument: msa.i

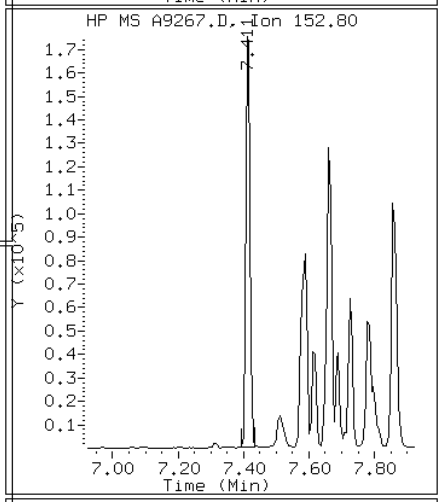
Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

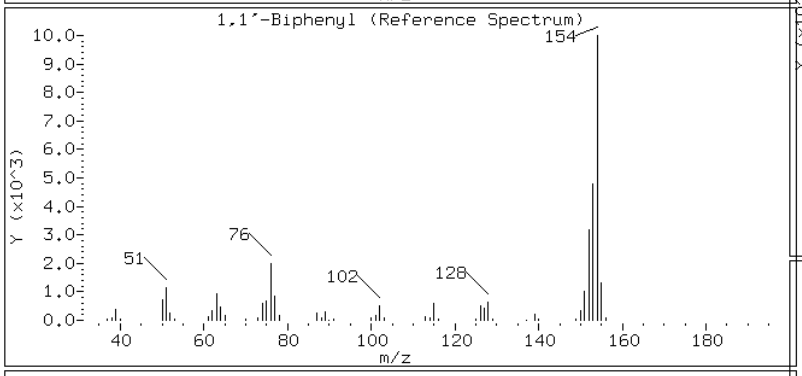
130 1,1'-Biphenyl

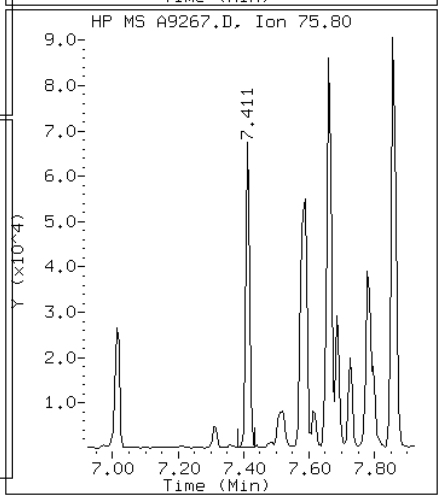


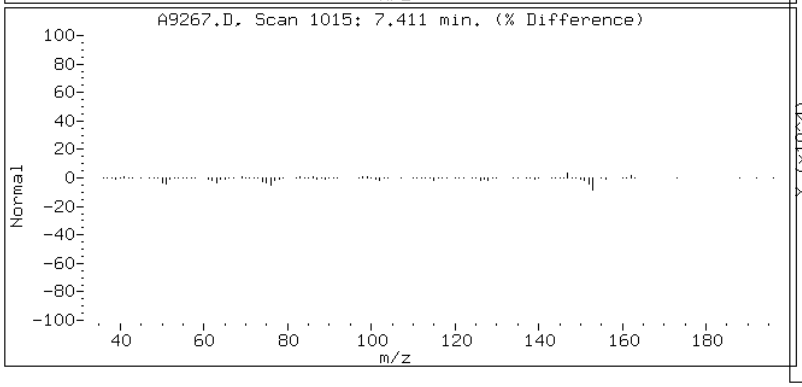












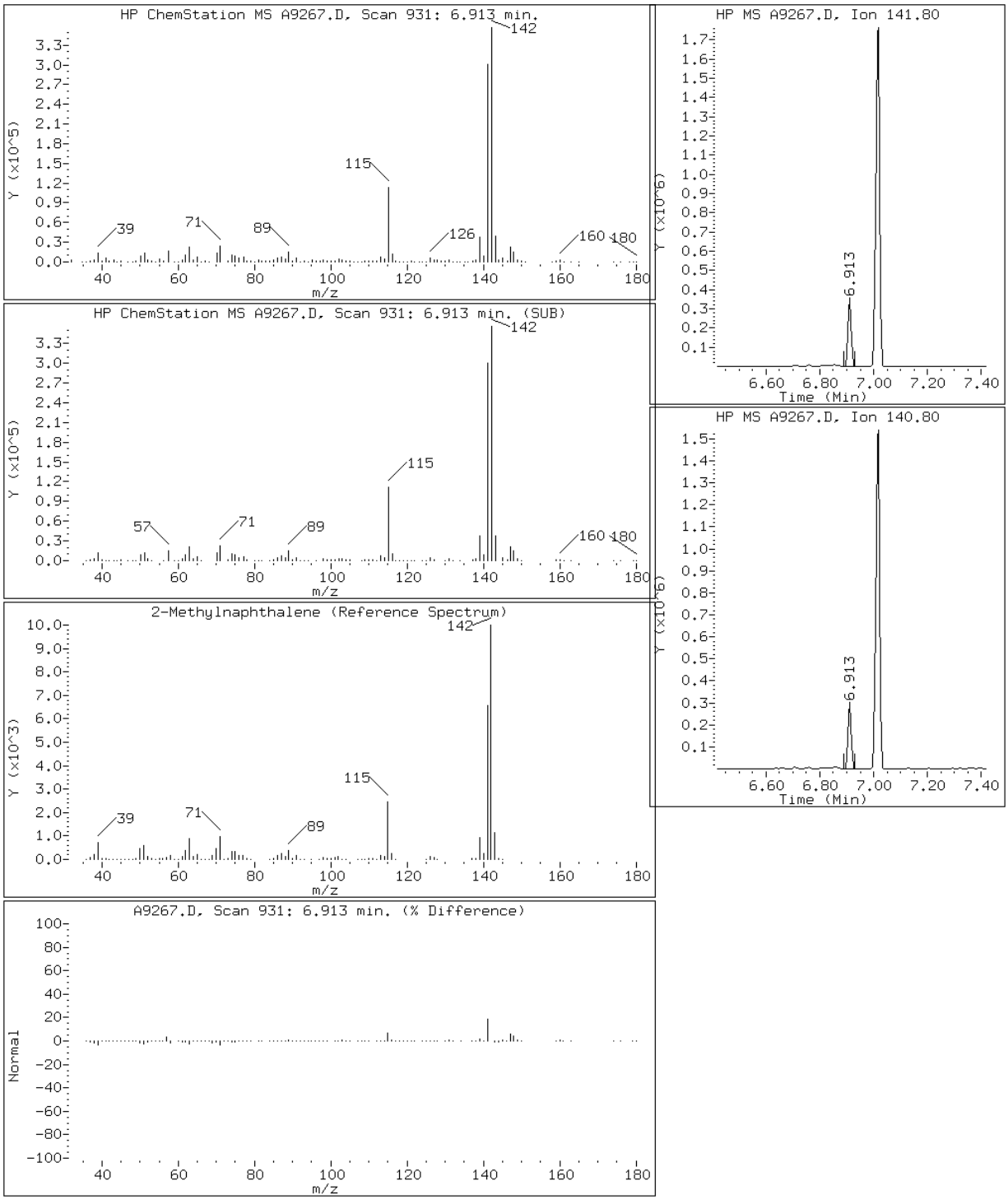
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

34 2-Methylnaphthalene



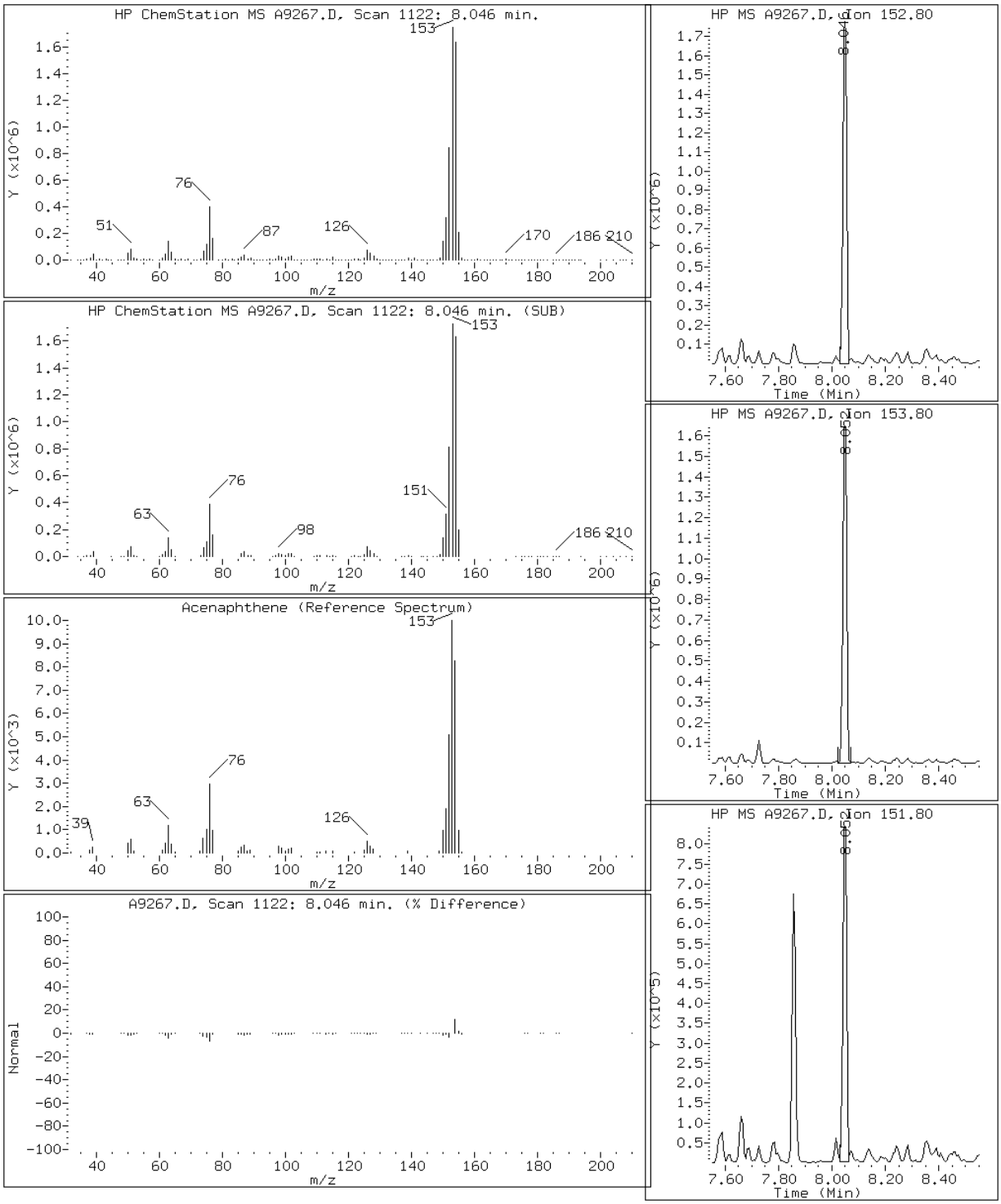
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

46 Acenaphthene



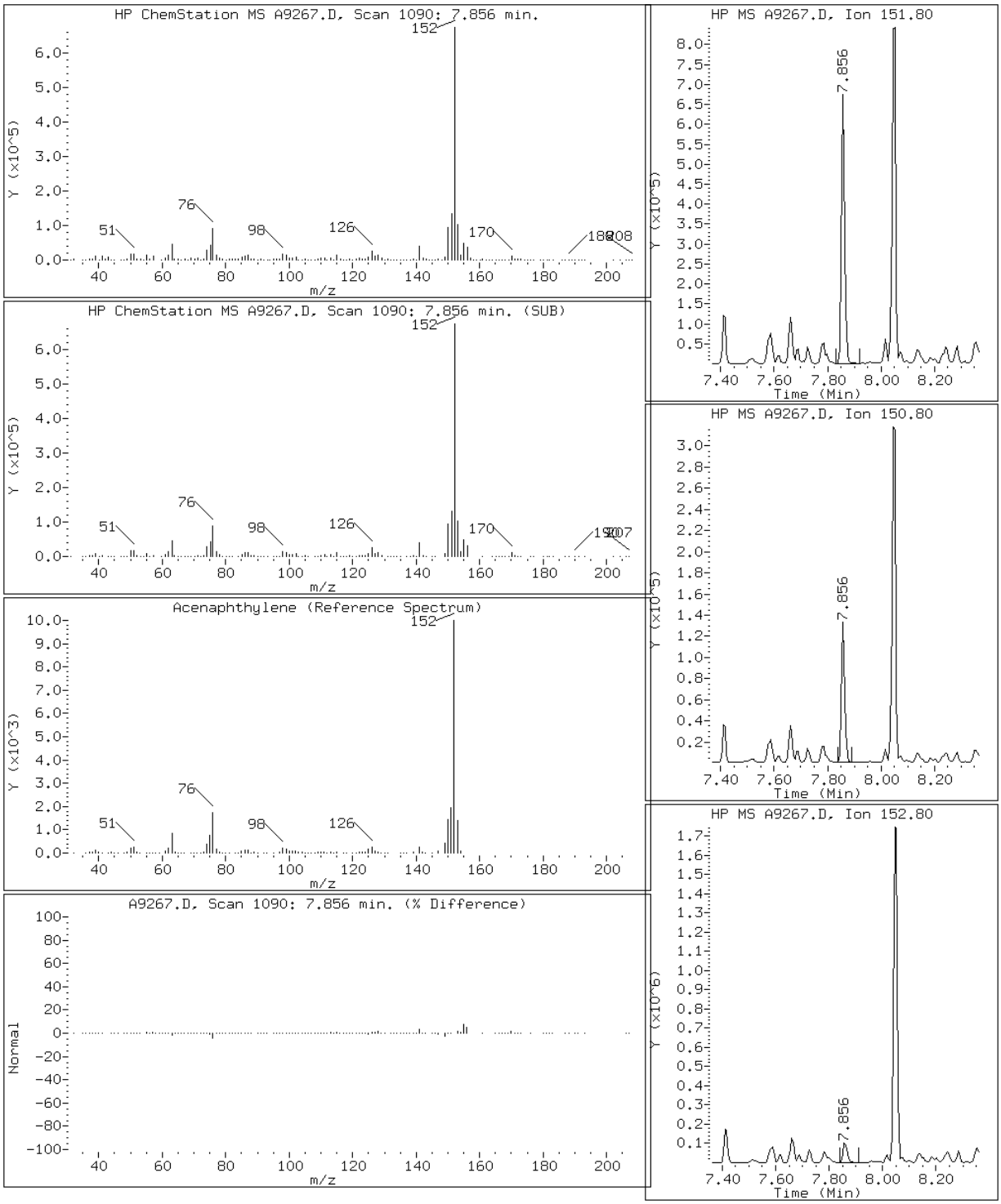
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

43 Acenaphthylene



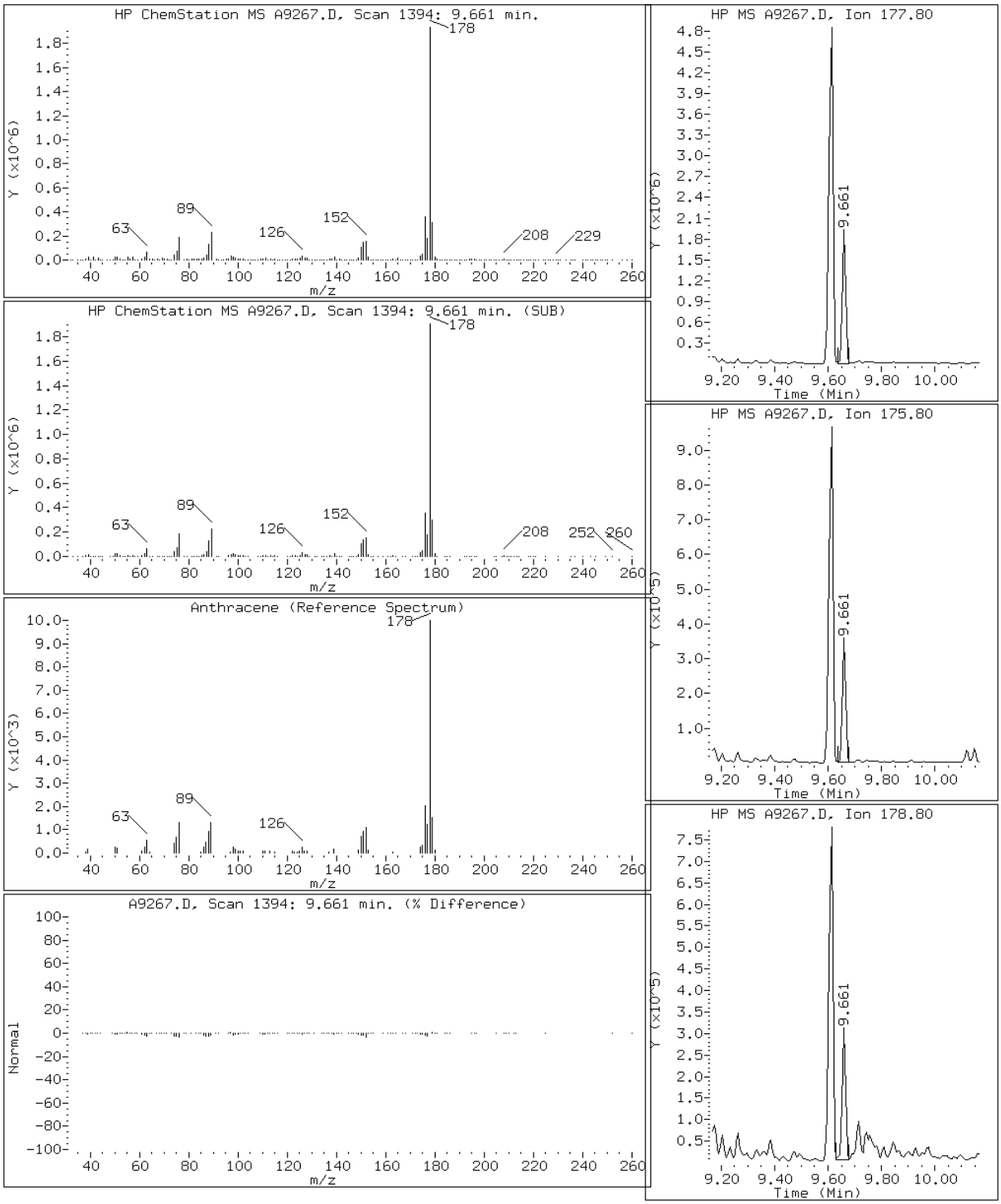
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

66 Anthracene



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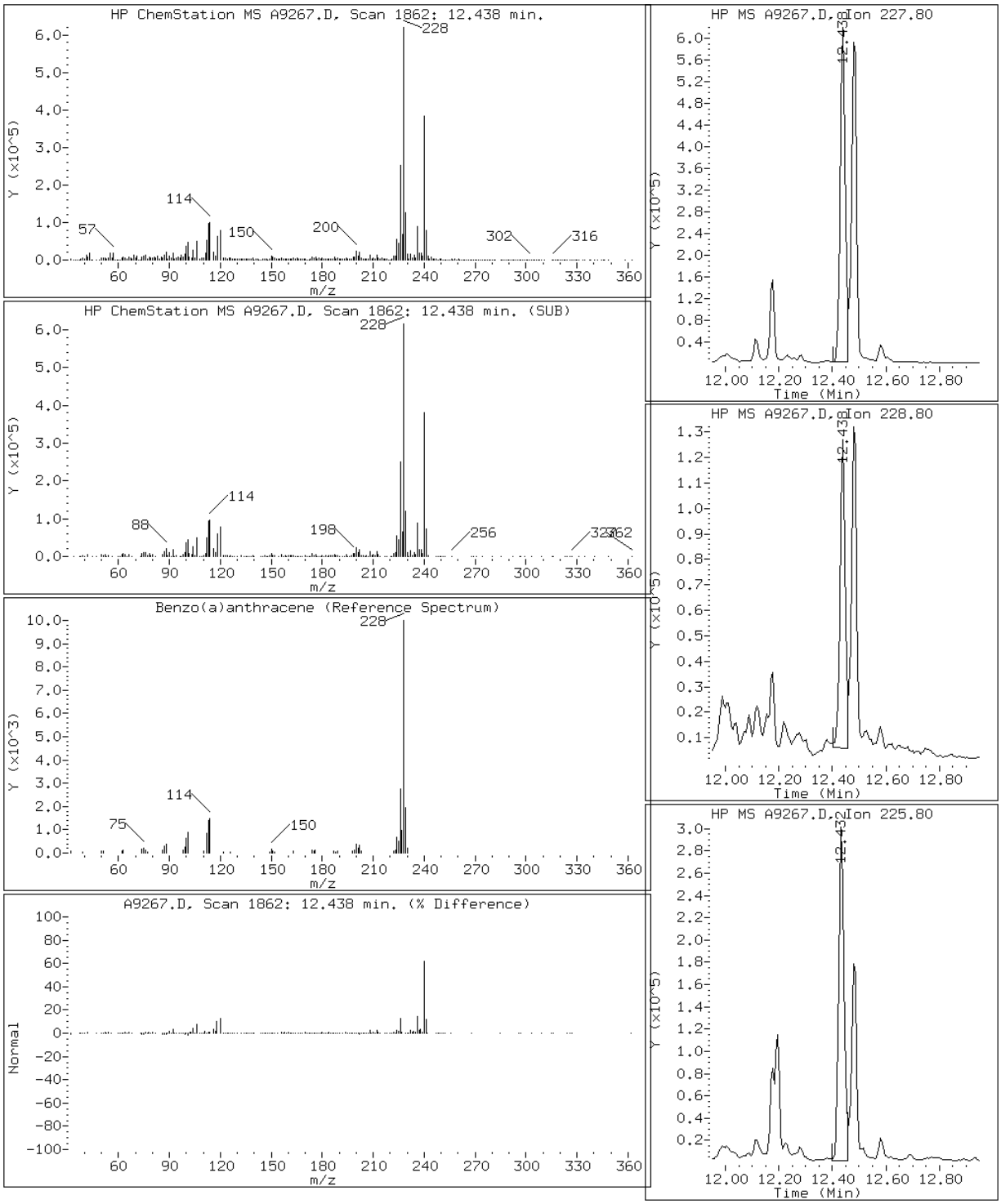
Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

76 Benzo(a)anthracene



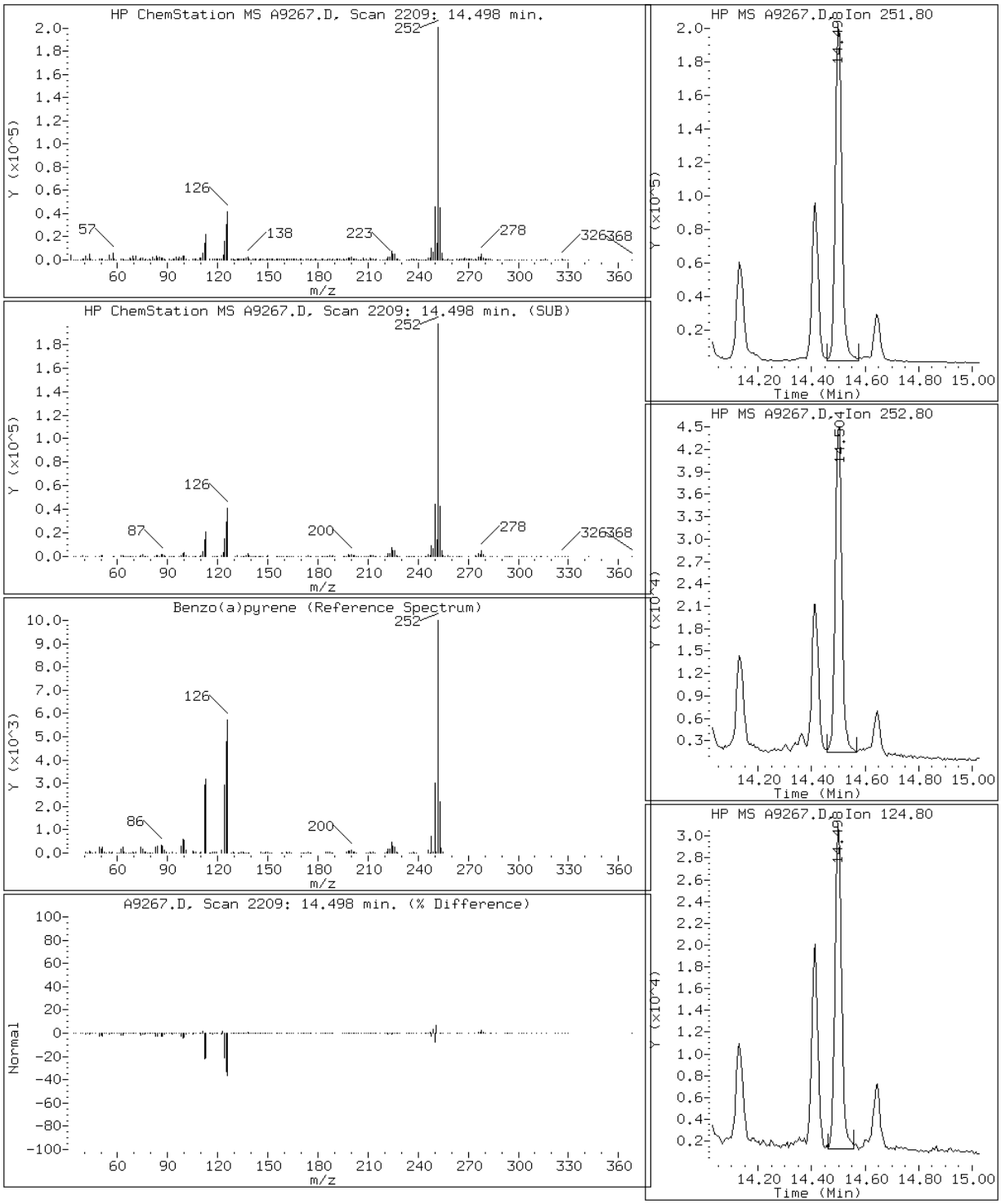
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

83 Benzo(a)pyrene



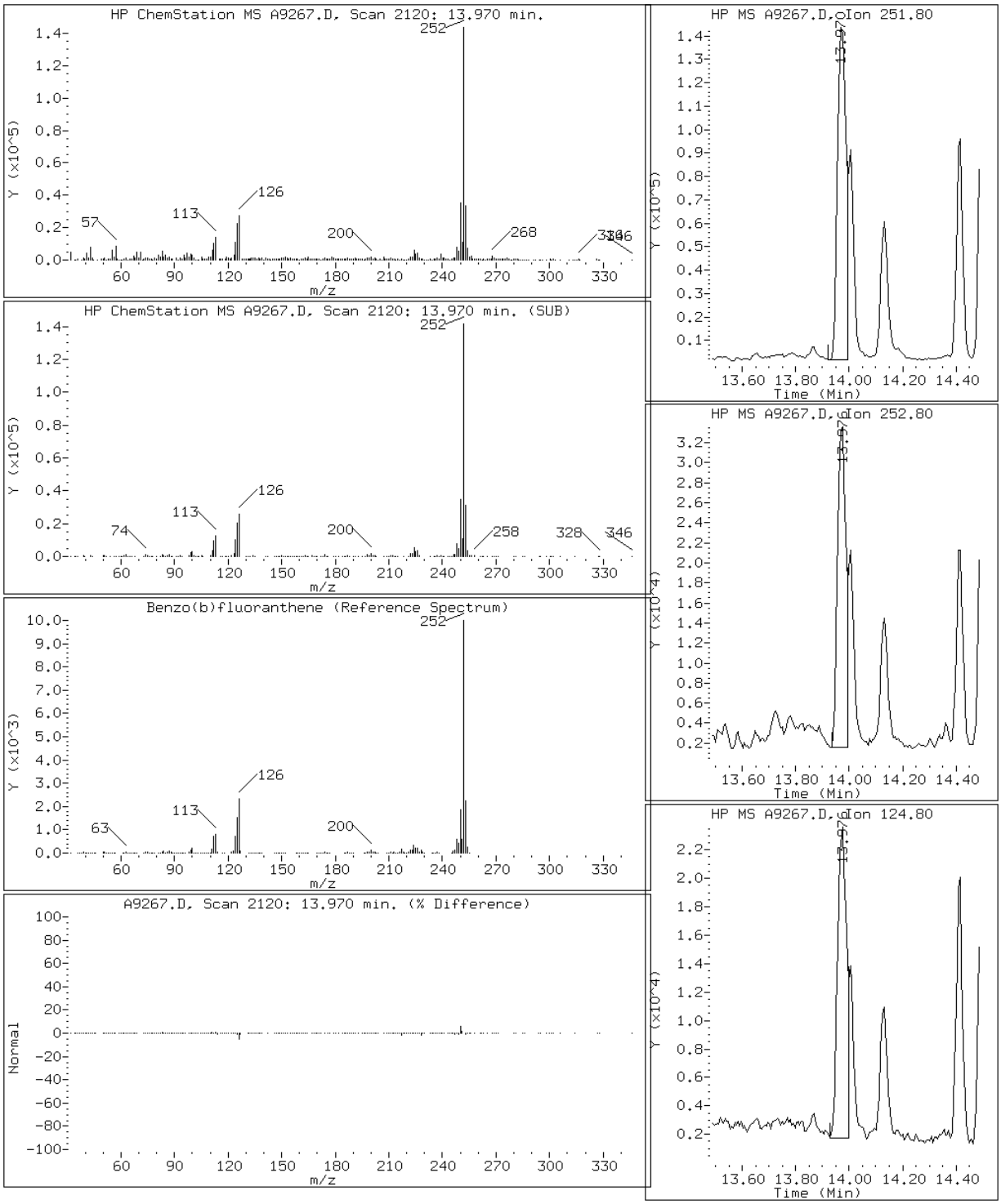
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

81 Benzo(b)fluoranthene



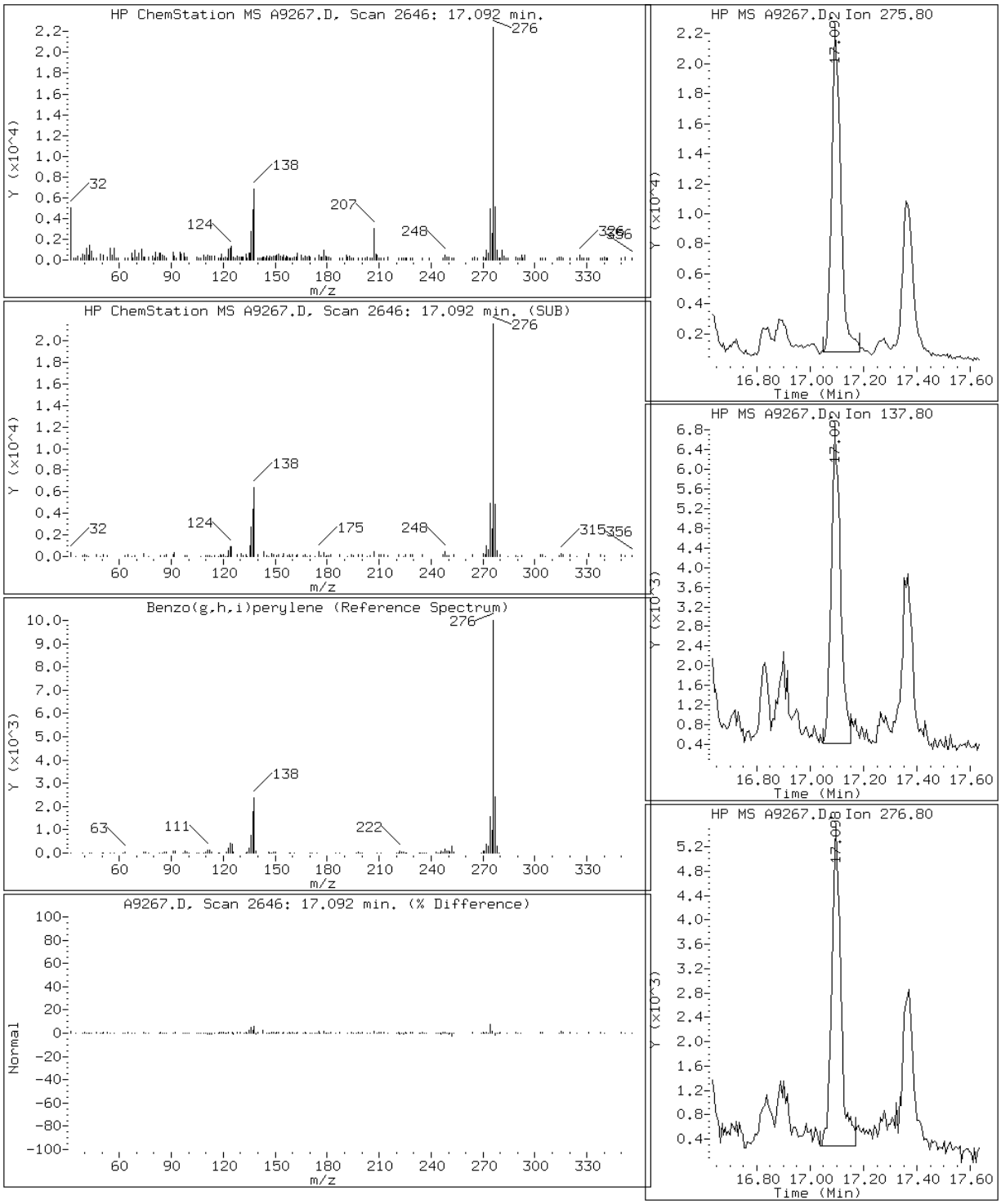
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

86 Benzo(g,h,i)perylene



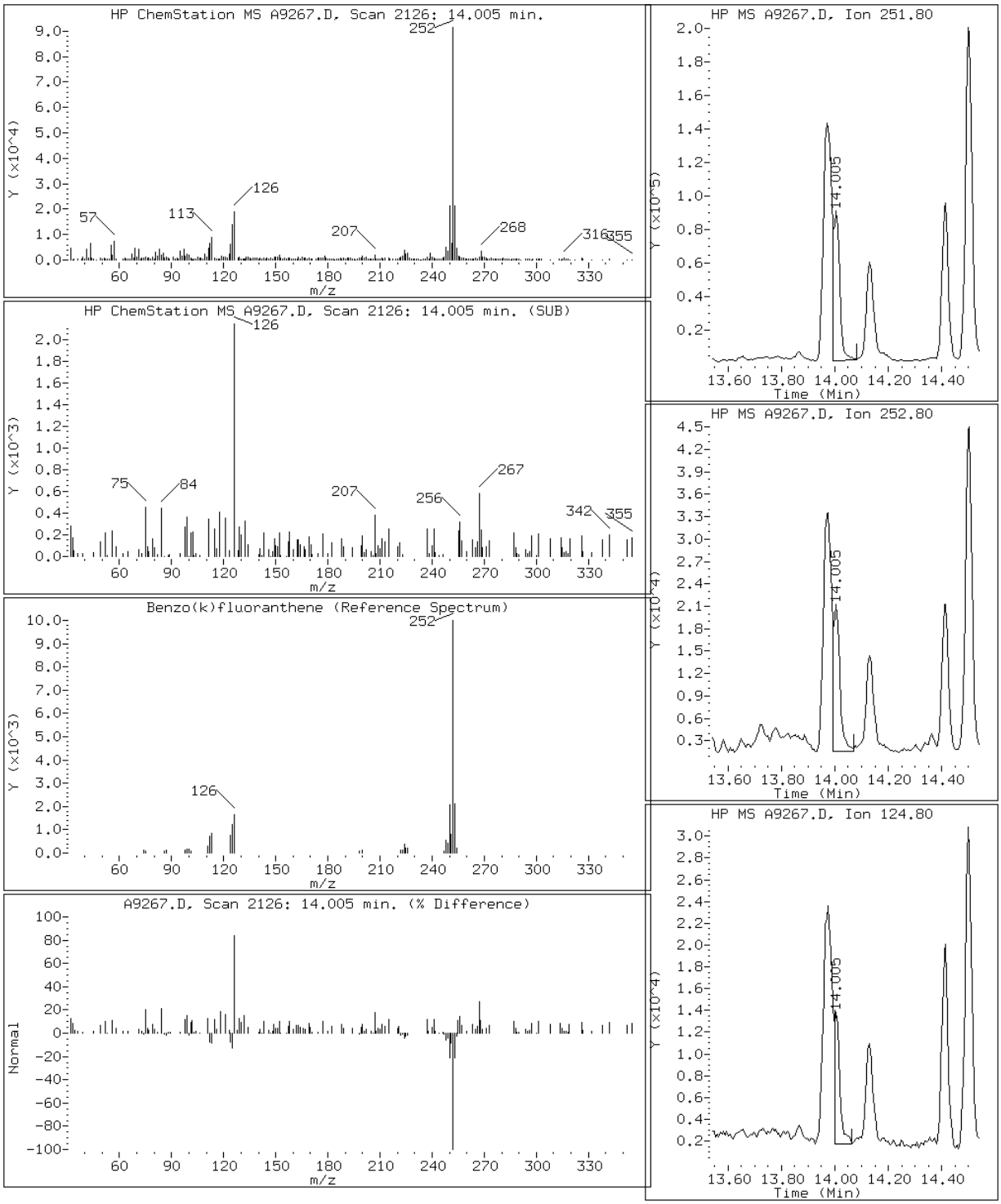
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

82 Benzo(k)fluoranthene



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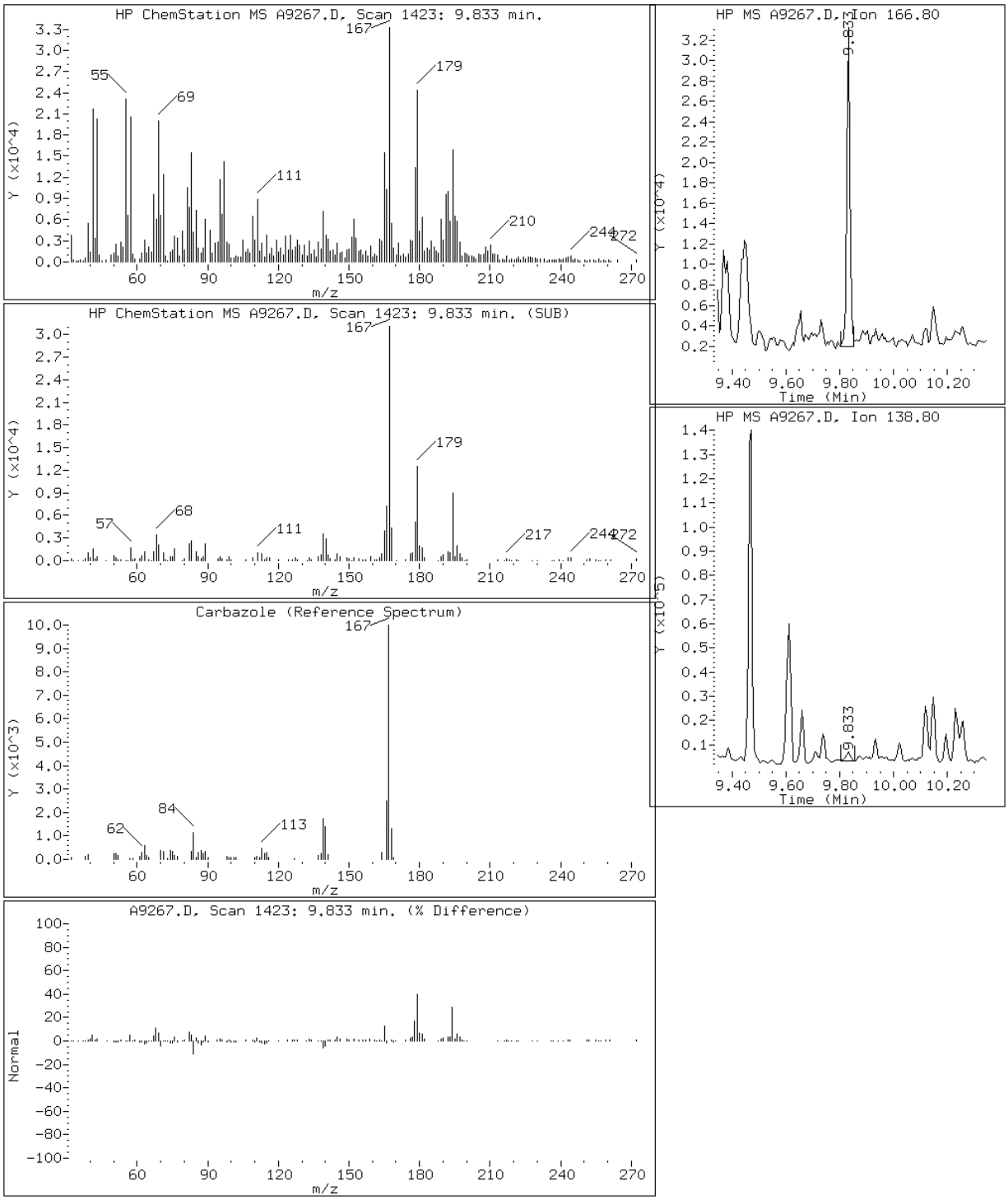
Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

65 Carbazole



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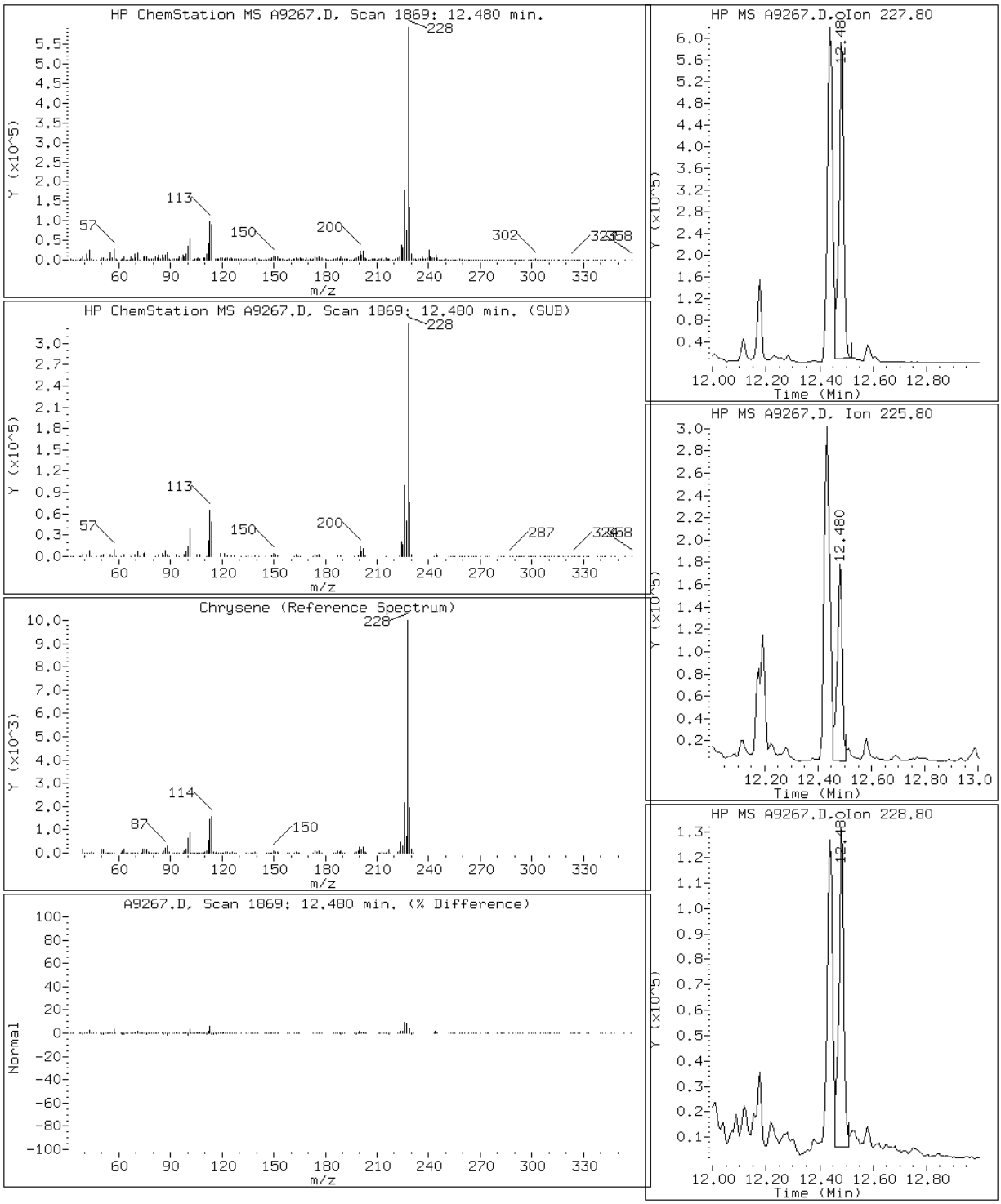
Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

77 Chrysene



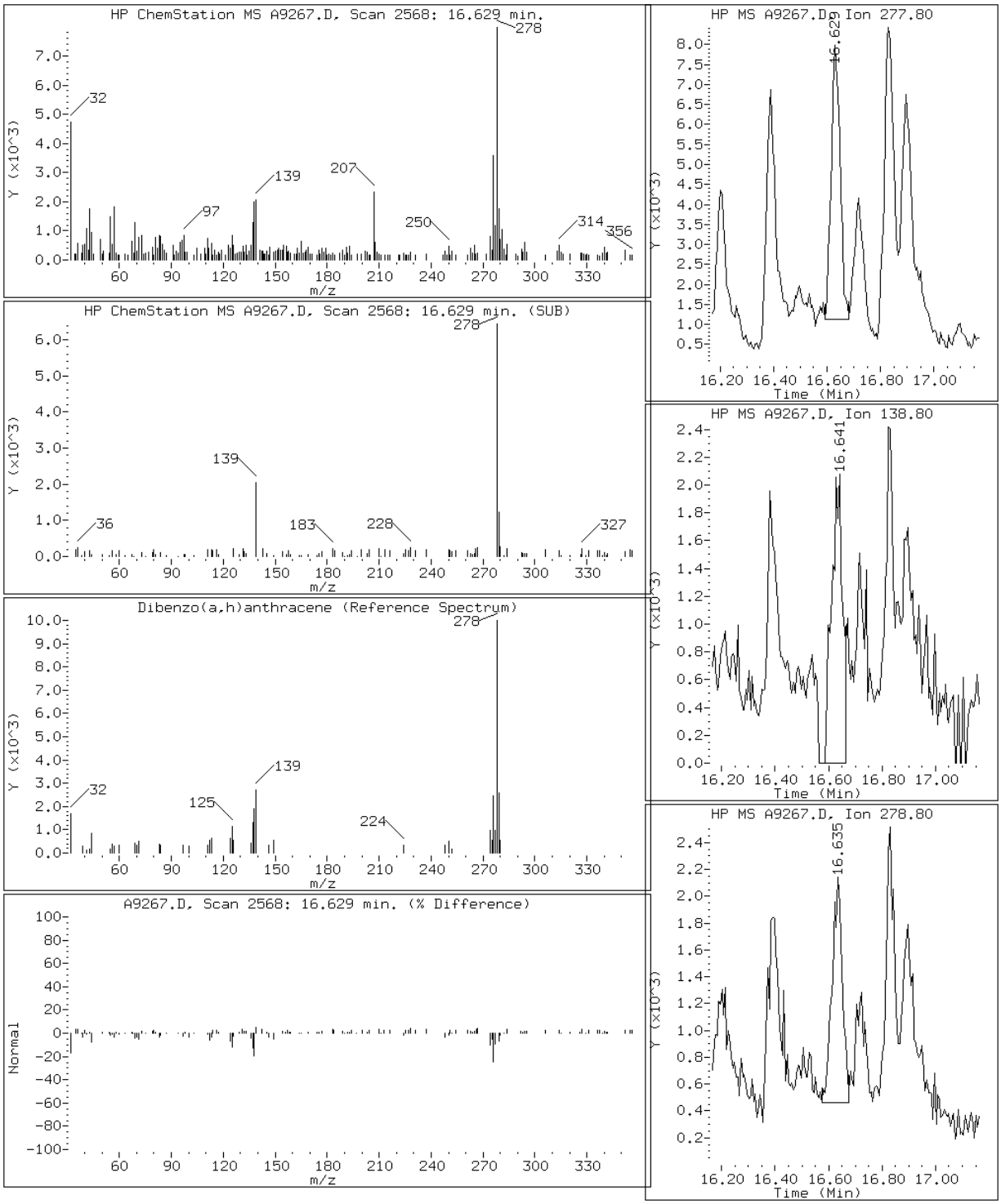
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

85 Dibenzo(a,h)anthracene



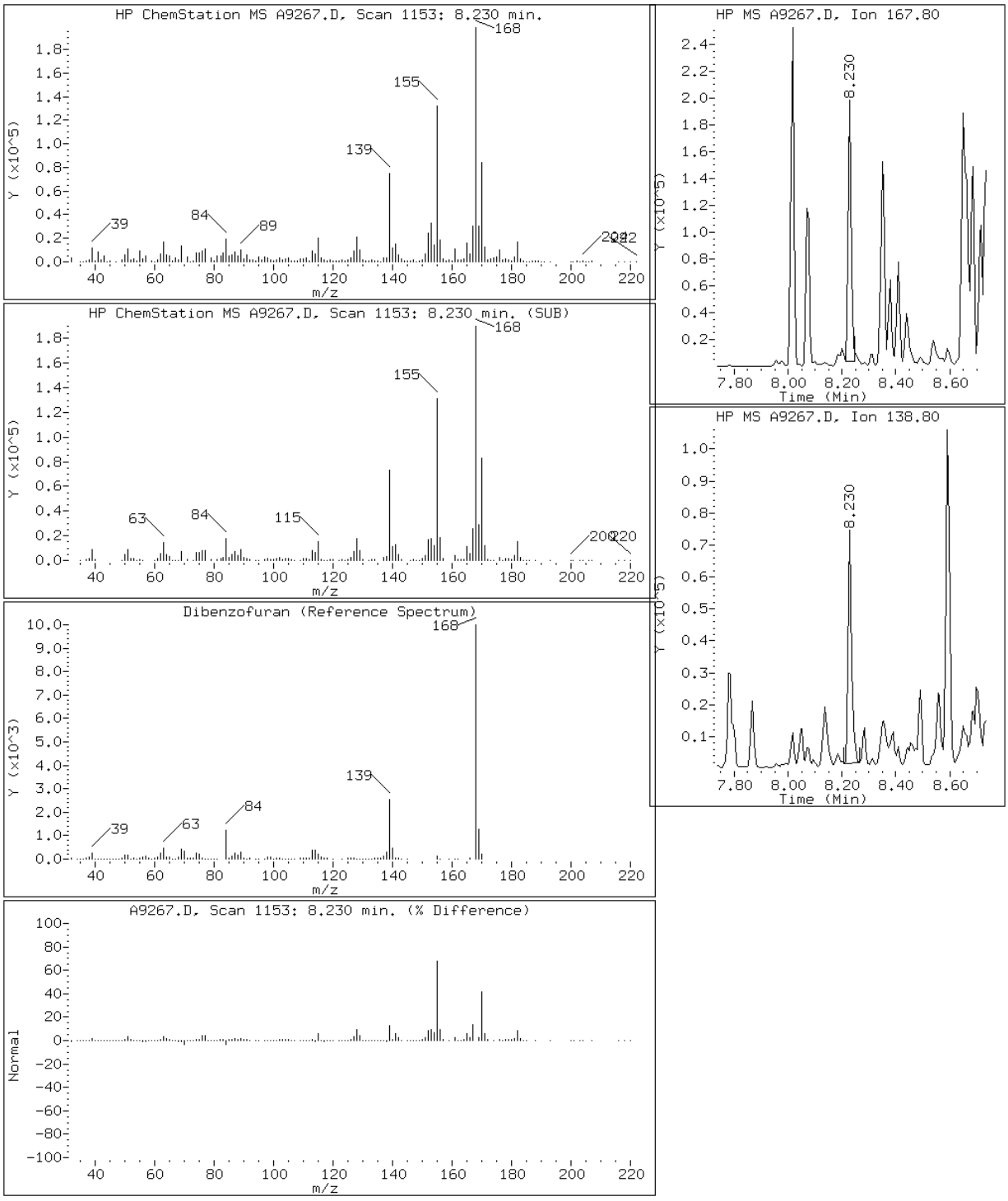
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

49 Dibenzofuran



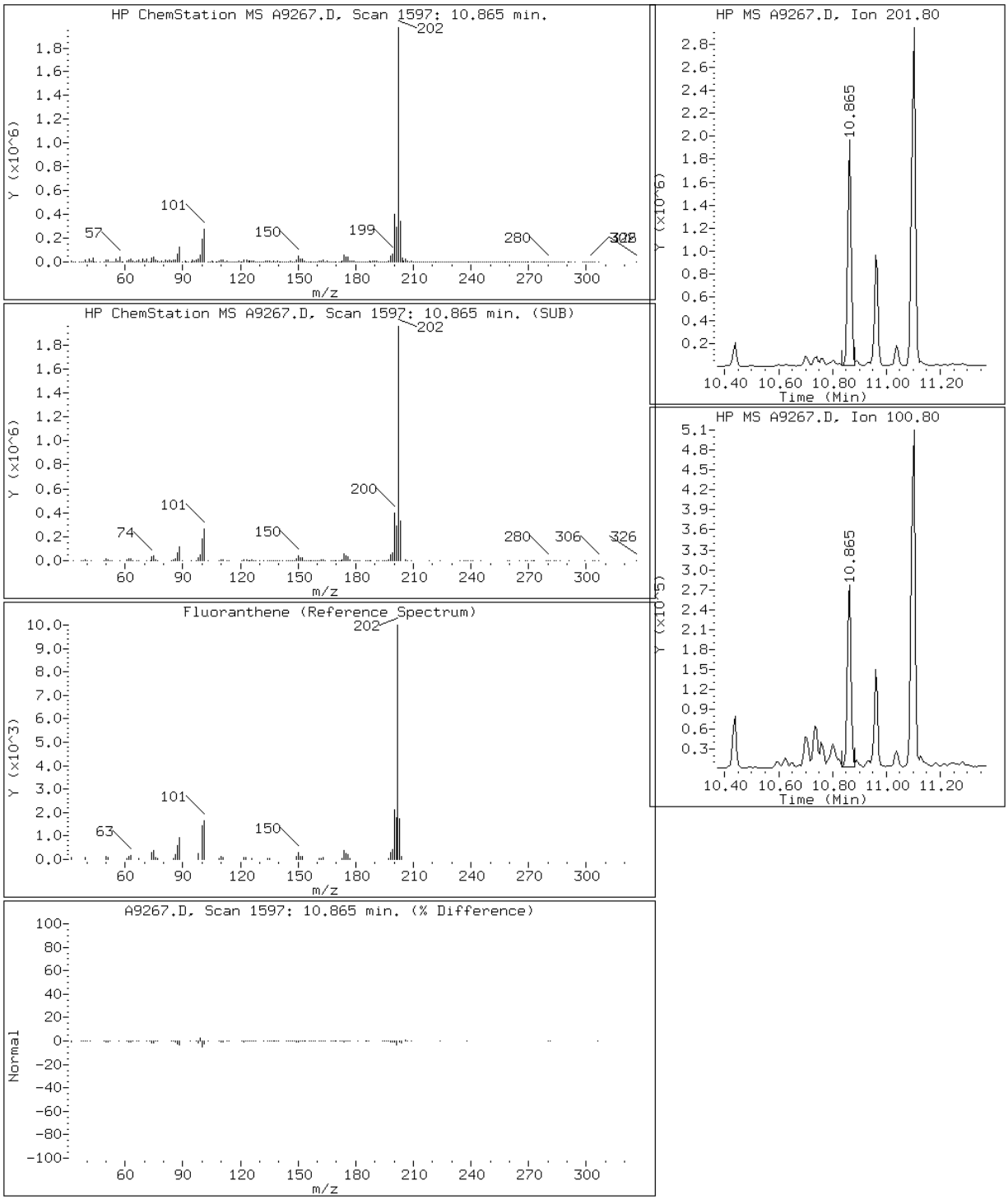
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

68 Fluoranthene



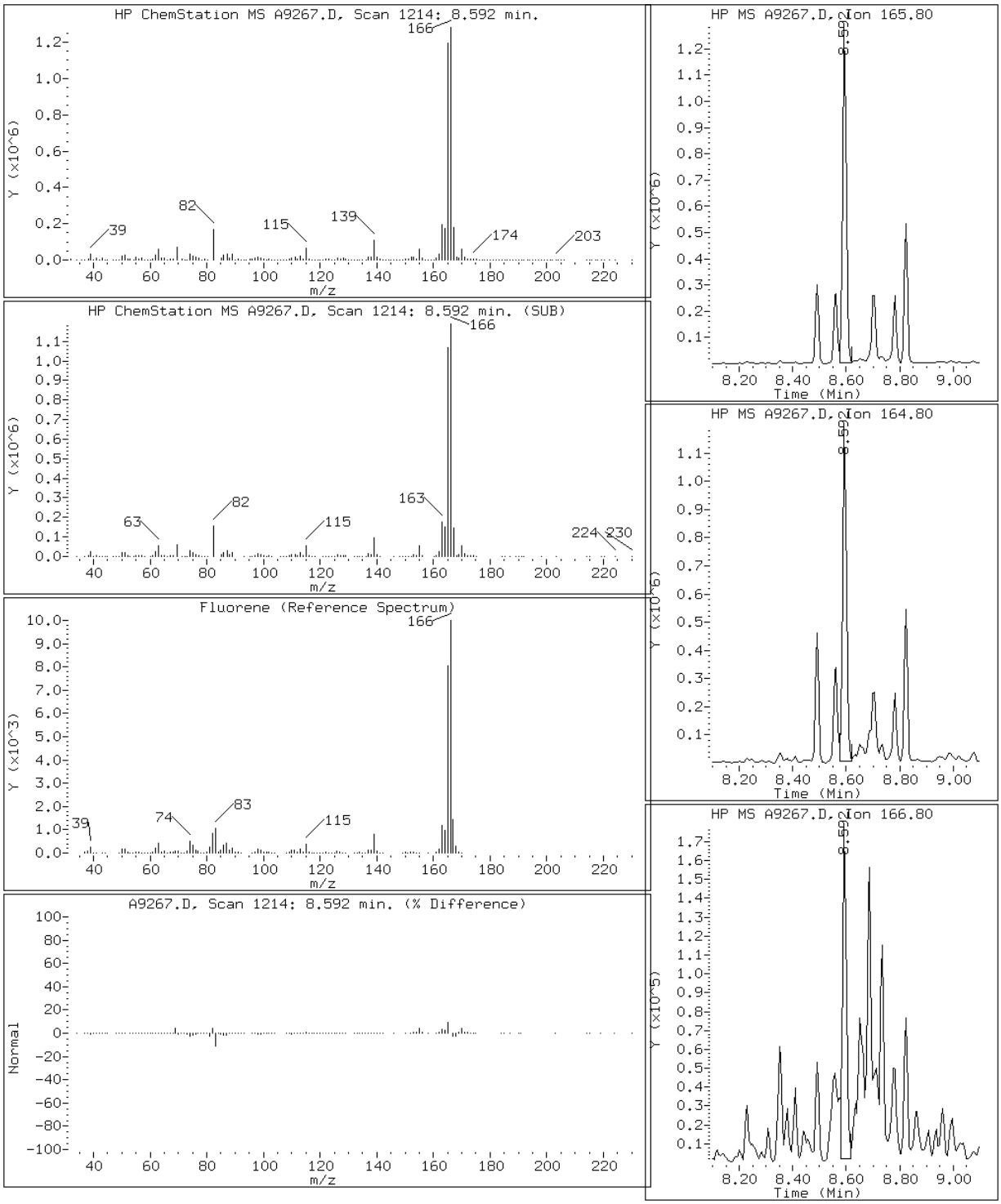
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

52 Fluorene



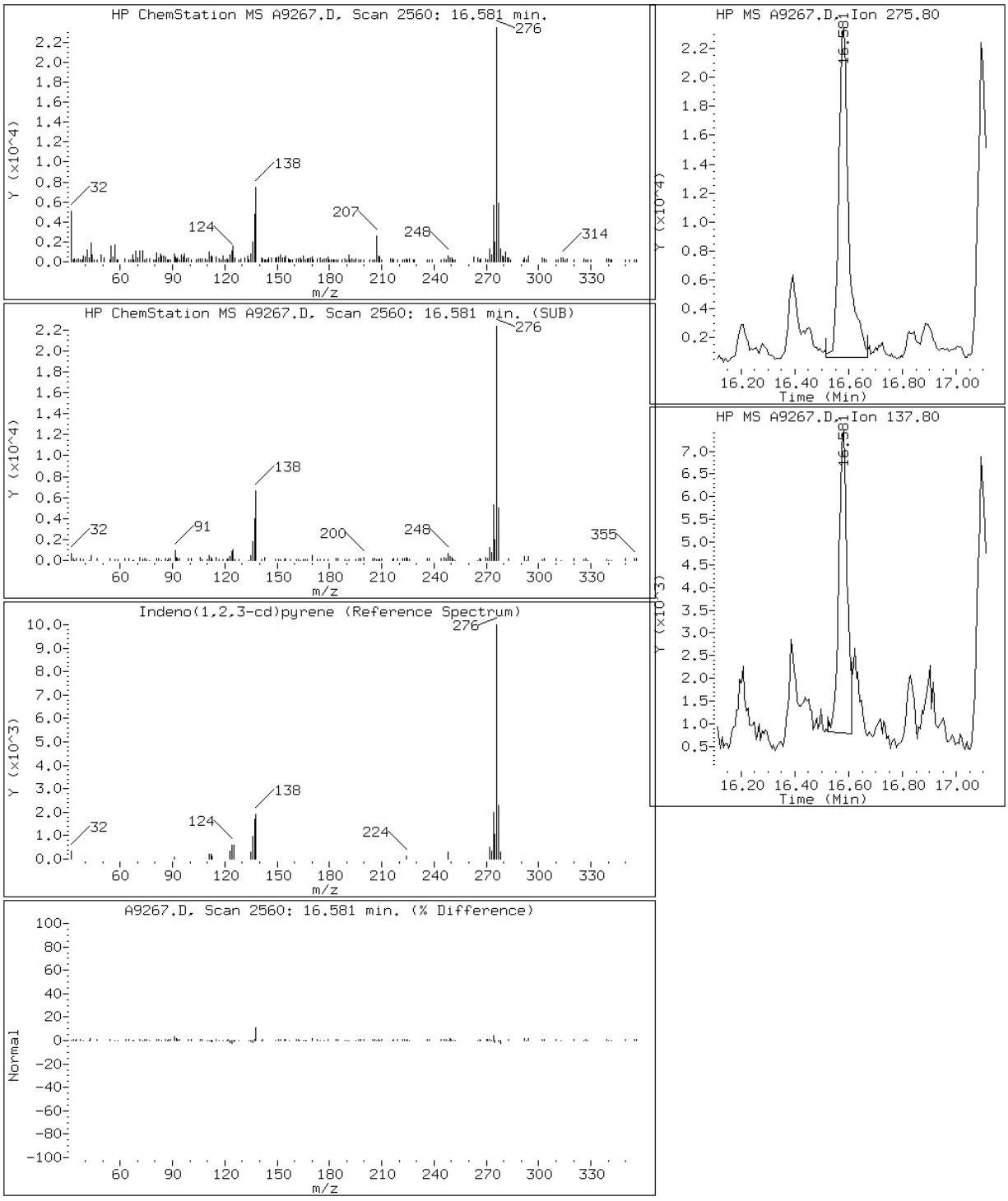
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



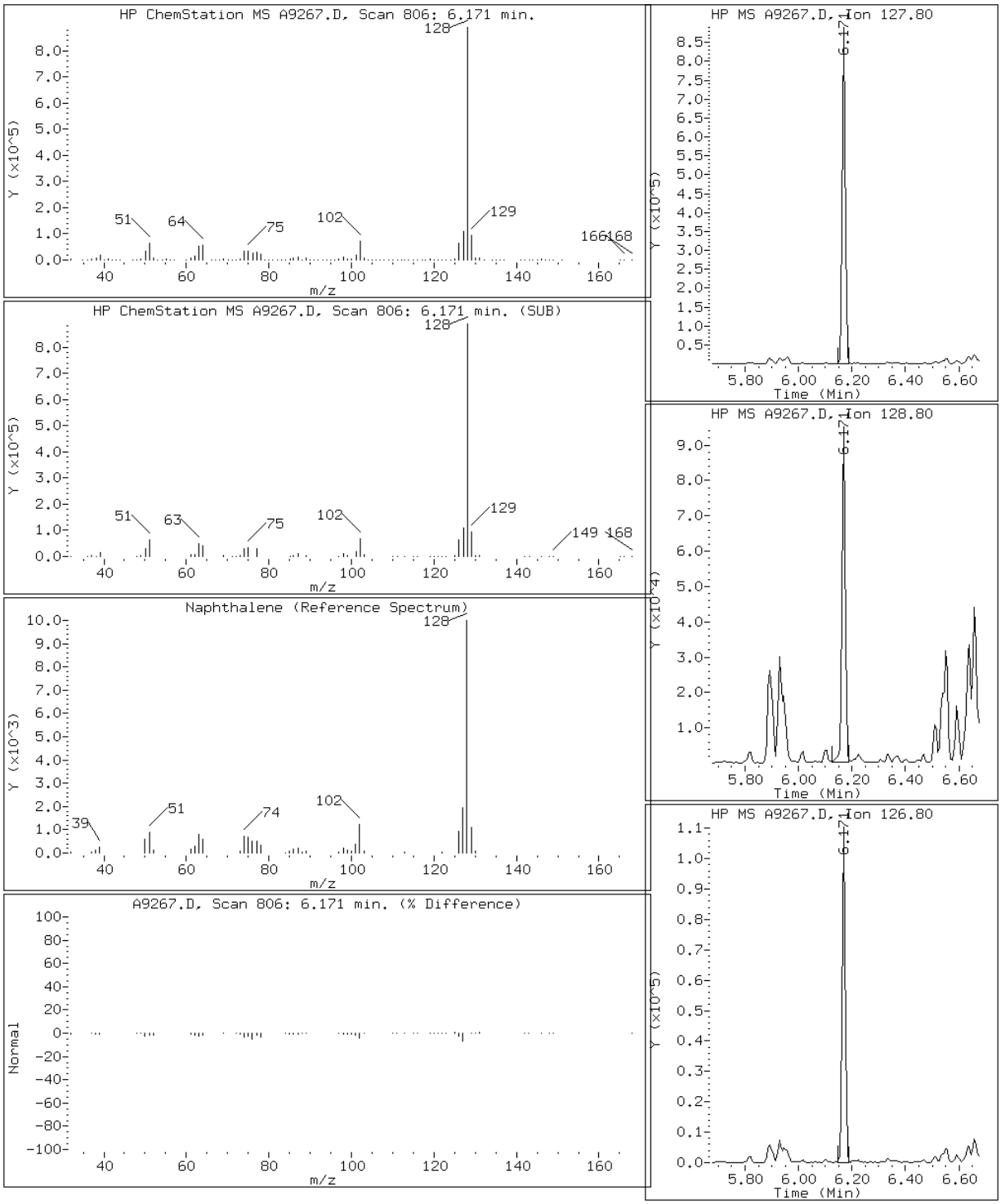
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

30 Naphthalene



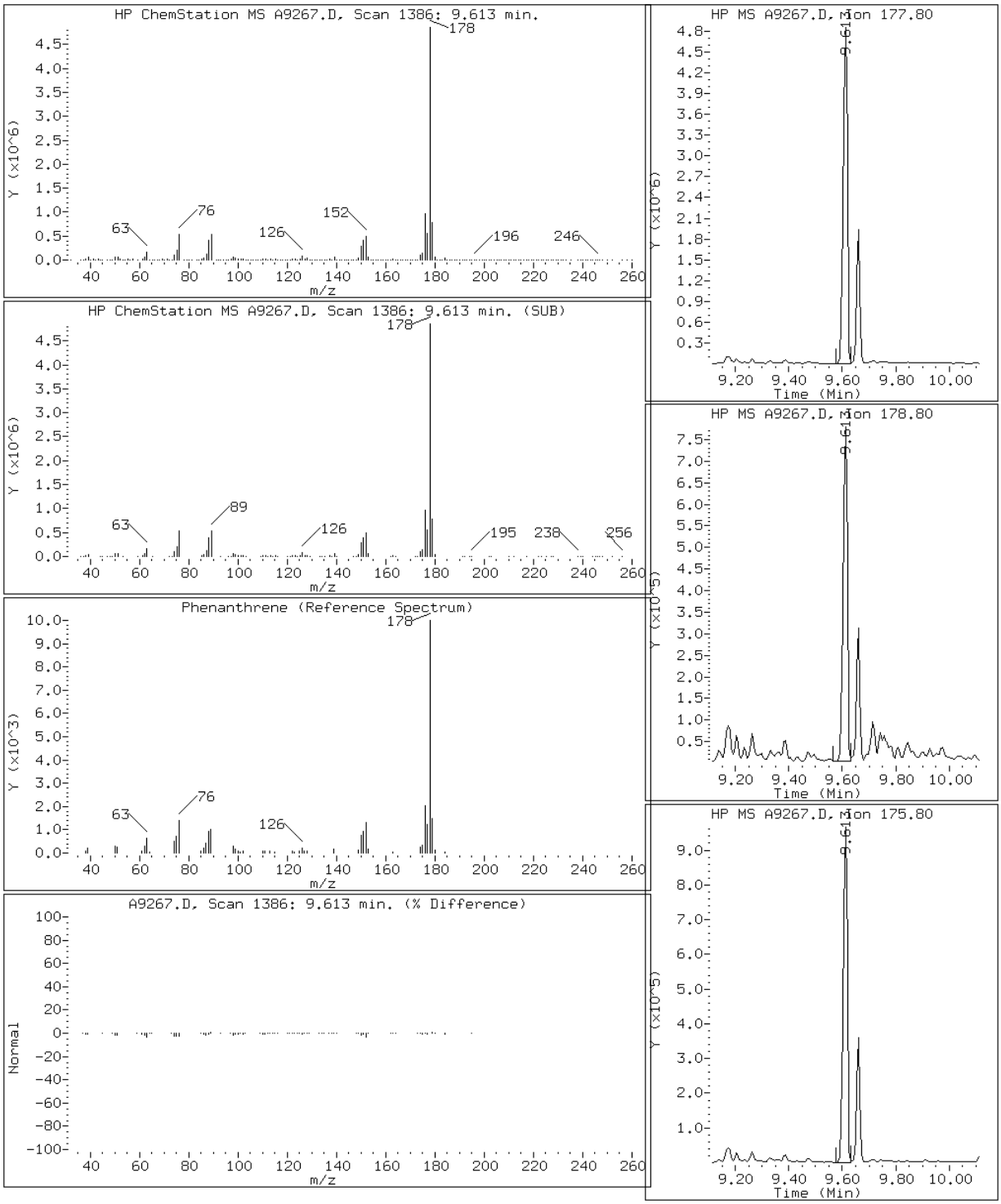
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

64 Phenanthrene



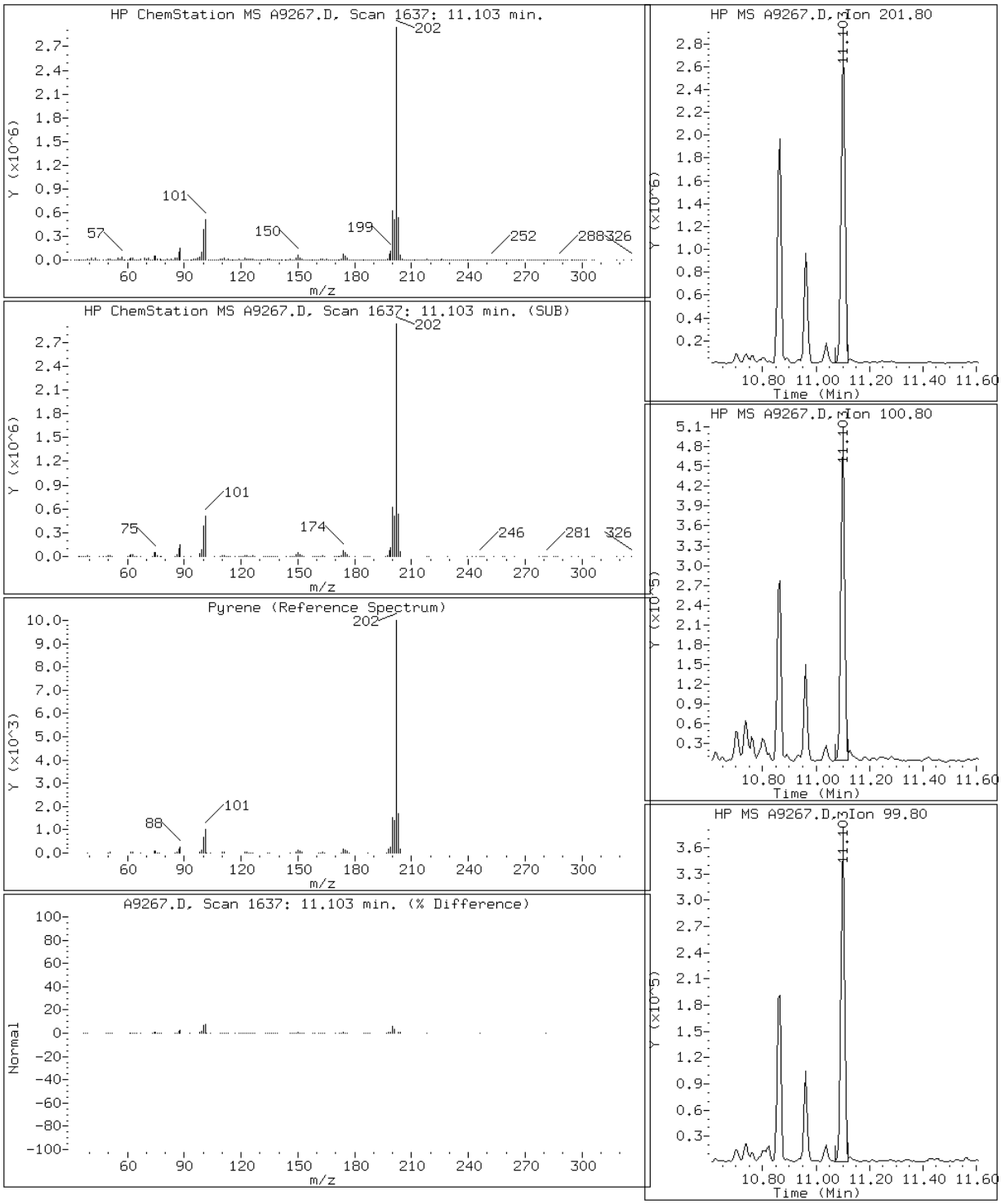
Data File: A9267.D

Date: 23-DEC-2009 10:44

Client ID: PBL-1-30-E(9') Instrument: msa.i

Sample Info: 220-11066-A-6-E;20re Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') F.D. | Lab Sample ID: 220-11066-7

Matrix: Solid | Lab File ID: C15398.D

Analysis Method: 8270C | Date Collected: 12/15/2009 09:10

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.16(g) | Date Analyzed: 12/22/2009 15:42

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	6000		3000	190
95-95-4	2,4,5-Trichlorophenol	19000	U	19000	150
88-06-2	2,4,6-Trichlorophenol	3000	U	3000	82
120-83-2	2,4-Dichlorophenol	3000	U	3000	160
105-67-9	2,4-Dimethylphenol	3000	U	3000	150
121-14-2	2,4-Dinitrotoluene	3000	U	3000	240
51-28-5	2,4-Dinitrophenol	19000	U	19000	900
606-20-2	2,6-Dinitrotoluene	3000	U	3000	88
91-58-7	2-Chloronaphthalene	3000	U	3000	130
95-57-8	2-Chlorophenol	3000	U	3000	170
91-57-6	2-Methylnaphthalene	5700		3000	85
95-48-7	2-Methylphenol	3000	U	3000	180
88-74-4	2-Nitroaniline	7400	U	7400	180
88-75-5	2-Nitrophenol	3000	U	3000	190
91-94-1	3,3'-Dichlorobenzidine	3700	U	3700	620
99-09-2	3-Nitroaniline	7400	U	7400	95
534-52-1	4,6-Dinitro-2-methylphenol	19000	U	19000	1300
101-55-3	4-Bromophenyl phenyl ether	3000	U	3000	190
59-50-7	4-Chloro-3-methylphenol	3000	U	3000	120
106-47-8	4-Chloroaniline	3000	U	3000	490
7005-72-3	4-Chlorophenyl phenyl ether	3000	U	3000	220
106-44-5	4-Methylphenol	3000	U	3000	200
100-01-6	4-Nitroaniline	3000	U	3000	230
100-02-7	4-Nitrophenol	19000	U	19000	230
83-32-9	Acenaphthene	30000		3000	180
208-96-8	Acenaphthylene	5700		3000	150
98-86-2	Acetophenone	3000	U	3000	160
120-12-7	Anthracene	15000		3000	120
1912-24-9	Atrazine	3700	U	3700	190
100-52-7	Benzaldehyde	3000	U	3000	500
56-55-3	Benzo[a]anthracene	7000		3000	110
50-32-8	Benzo[a]pyrene	5400		3000	81
205-99-2	Benzo[b]fluoranthene	3900		3000	80
191-24-2	Benzo[g,h,i]perylene	1200	J	3000	200

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') F.D. | Lab Sample ID: 220-11066-7

Matrix: Solid | Lab File ID: C15398.D

Analysis Method: 8270C | Date Collected: 12/15/2009 09:10

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.16(g) | Date Analyzed: 12/22/2009 15:42

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	1600	J	3000	270
111-91-1	Bis(2-chloroethoxy)methane	3000	U	3000	140
111-44-4	Bis(2-chloroethyl)ether	3000	U	3000	160
117-81-7	Bis(2-ethylhexyl) phthalate	3000	U	3000	290
85-68-7	Butyl benzyl phthalate	3000	U	3000	170
105-60-2	Caprolactam	3000	U	3000	240
86-74-8	Carbazole	230	J	3000	170
218-01-9	Chrysene	6600		3000	220
84-74-2	Di-n-butyl phthalate	3000	U	3000	440
117-84-0	Di-n-octyl phthalate	3000	U	3000	170
53-70-3	Dibenz(a,h)anthracene	380	J	3000	240
132-64-9	Dibenzofuran	2000	J	3000	210
84-66-2	Diethyl phthalate	3000	U	3000	300
131-11-3	Dimethyl phthalate	3000	U	3000	170
206-44-0	Fluoranthene	14000		3000	150
86-73-7	Fluorene	15000		3000	180
118-74-1	Hexachlorobenzene	3000	U	3000	210
87-68-3	Hexachlorobutadiene	3000	U	3000	230
77-47-4	Hexachlorocyclopentadiene	7400	U	7400	1400
67-72-1	Hexachloroethane	3000	U	3000	170
193-39-5	Indeno[1,2,3-cd]pyrene	1400	J	3000	190
78-59-1	Isophorone	3000	U	3000	170
621-64-7	N-Nitrosodi-n-propylamine	3000	U	3000	200
86-30-6	N-Nitrosodiphenylamine	3000	U	3000	170
91-20-3	Naphthalene	9500		3000	160
98-95-3	Nitrobenzene	3000	U	3000	190
87-86-5	Pentachlorophenol	7400	U	7400	1800
85-01-8	Phenanthrene	46000		3000	150
108-95-2	Phenol	3000	U	3000	200
129-00-0	Pyrene	21000		3000	140
108-60-1	2,2'-oxybis[1-chloropropane]	3000	U	3000	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-1-30-E(9') F.D. | Lab Sample ID: 220-11066-7

Matrix: Solid | Lab File ID: C15398.D

Analysis Method: 8270C | Date Collected: 12/15/2009 09:10

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.16(g) | Date Analyzed: 12/22/2009 15:42

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	65	37-120	
321-60-8	2-Fluorobiphenyl	74	41-120	
367-12-4	2-Fluorophenol	59	34-120	
4165-60-0	Nitrobenzene-d5	63	38-120	
4165-62-2	Phenol-d5	62	36-120	
1718-51-0	Terphenyl-d14	78	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15398.D
Lab Smp Id: 220-11066-A-7-B Client Smp ID: PBL-1-30-E(9') F.D.
Inj Date : 22-DEC-2009 15:42
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-7-B;10
Misc Info : 220-11066-A-7-B
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 15
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.160	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	10.845	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.021	5.021	(1.000)	268123	20.0000	
$ 2	2-Fluorophenol	112	3.555	3.549	(0.708)	75797	4.45419	3300
$ 3	Phenol-d5	99	4.671	4.671	(0.930)	110615	4.64494	3400
* 20	Naphthalene-d8	136	6.398	6.398	(1.000)	1311513	20.0000	
$ 21	Nitrobenzene-d5	82	5.627	5.627	(0.879)	75950	3.12854	2300
30	Naphthalene	128	6.416	6.416	(1.003)	914566	12.8740	9500
34	2-Methylnaphthalene	142	7.164	7.164	(1.120)	373562	7.70130	5700
* 35	Acenaphthene-d10	164	8.274	8.274	(1.000)	970343	20.0000	
$ 40	2-Fluorobiphenyl	172	7.568	7.567	(0.915)	216449	3.69537	2700
130	1,1'-Biphenyl	154	7.668	7.668	(0.927)	501097	8.10191	6000
43	Acenaphthylene	152	8.125	8.119	(0.982)	666292	7.73954	5700
46	Acenaphthene	153	8.309	8.309	(1.004)	2112501	40.4195	30000
49	Dibenzofuran	168	8.493	8.493	(1.027)	212362	2.76025	2000
52	Fluorene	166	8.861	8.861	(1.071)	1296465	20.5863	15000
$ 56	2,4,6-Tribromophenol	330	9.117	9.117	(1.102)	43022	4.86451	3600
* 57	Phenanthrene-d10	188	9.859	9.852	(1.000)	1675041	20.0000	
64	Phenanthrene	178	9.888	9.882	(1.003)	5876094	62.1971	46000
65	Carbazole	167	10.108	10.108	(1.025)	28984	0.30843	230

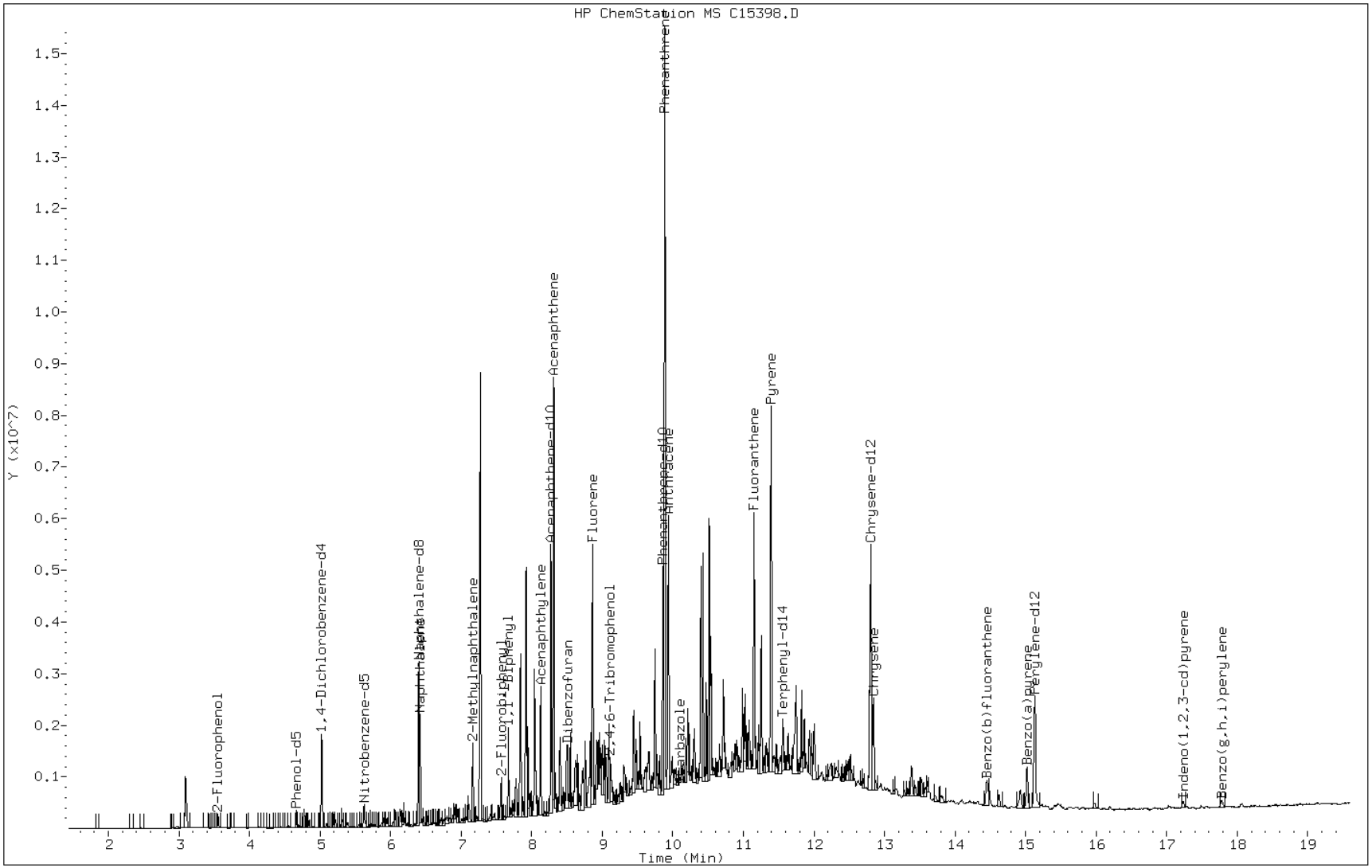
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	66 Anthracene	178	9.936	9.936	(1.008)	1965250	20.0291	15000
	68 Fluoranthene	202	11.152	11.146	(1.131)	2025615	18.5929	14000
*	70 Chrysene-d12	240	12.808	12.808	(1.000)	1841929	20.0000	
	72 Pyrene	202	11.390	11.390	(0.889)	3149700	28.6991	21000
$	73 Terphenyl-d14	244	11.562	11.562	(0.903)	297584	3.88309	2900
	76 Benzo(a)anthracene	228	12.797	12.796	(0.999)	984080	9.44657	7000
	77 Chrysene	228	12.844	12.850	(1.003)	901794	8.96114	6600
*	79 Perylene-d12	264	15.129	15.129	(1.000)	1207338	20.0000	
	81 Benzo(b)fluoranthene	252	14.452	14.452	(0.955)	439577	5.26162	3900
	82 Benzo(k)fluoranthene	252	14.488	14.500	(0.958)	193113	2.12319	1600
	83 Benzo(a)pyrene	252	15.022	15.028	(0.993)	516312	7.25265	5400
	84 Indeno(1,2,3-cd)pyrene	276	17.230	17.242	(1.139)	120223	1.92431	1400
	85 Dibenzo(a,h)anthracene	278	17.290	17.301	(1.143)	34075	0.51337	380
	86 Benzo(g,h,i)perylene	276	17.782	17.794	(1.175)	109571	1.61143	1200

Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas



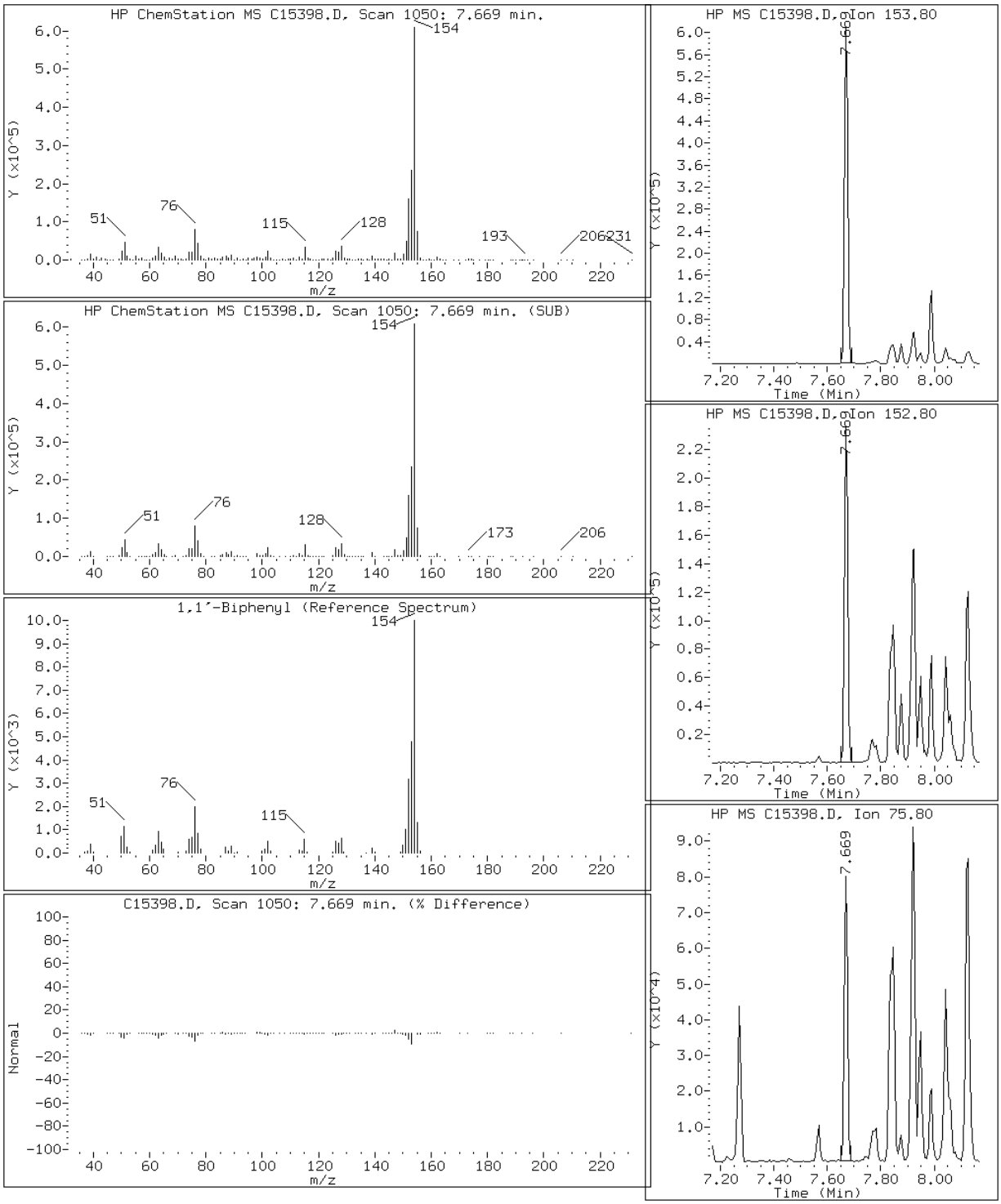
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

130 1,1'-Biphenyl



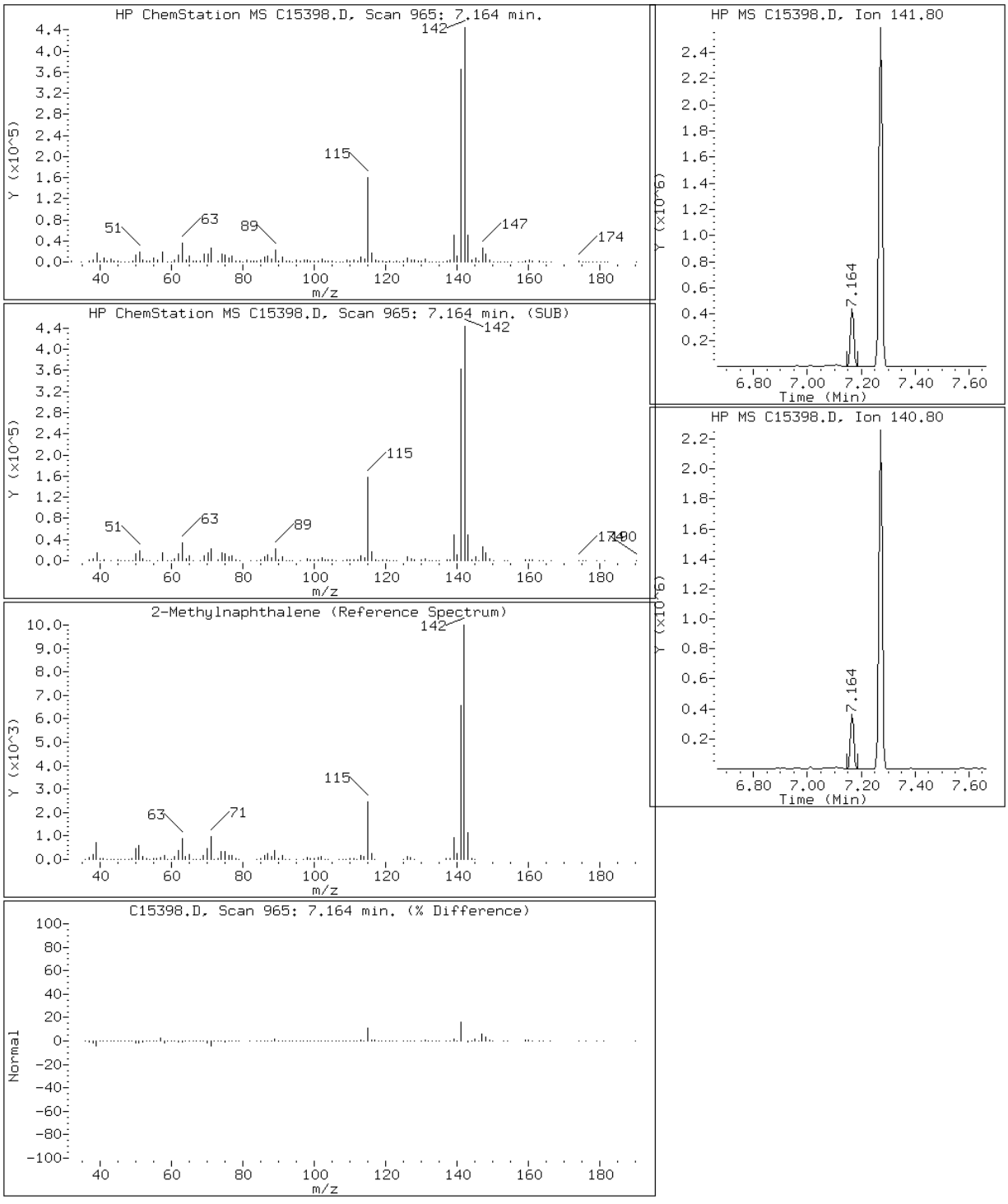
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

34 2-Methylnaphthalene



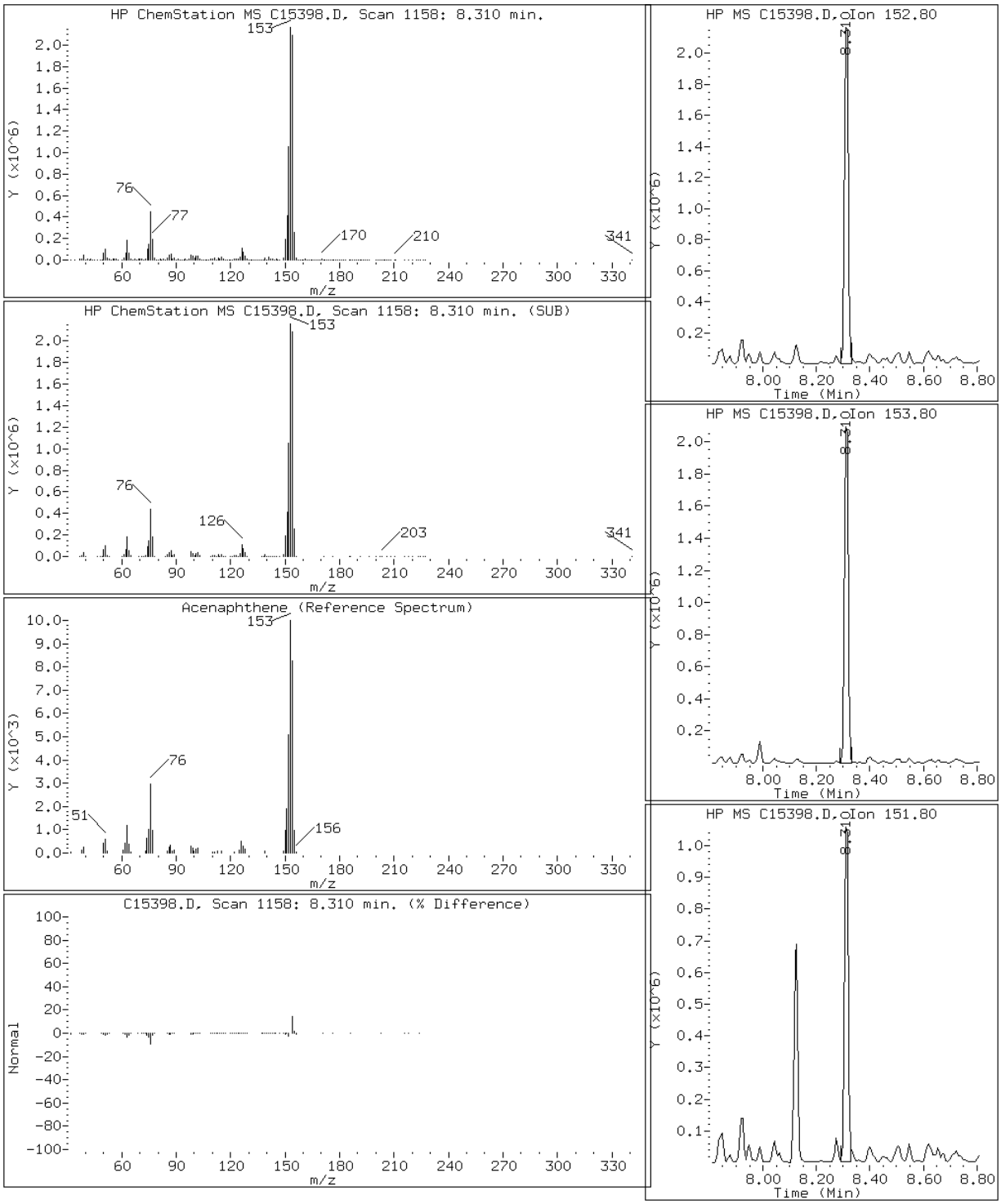
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

46 Acenaphthene



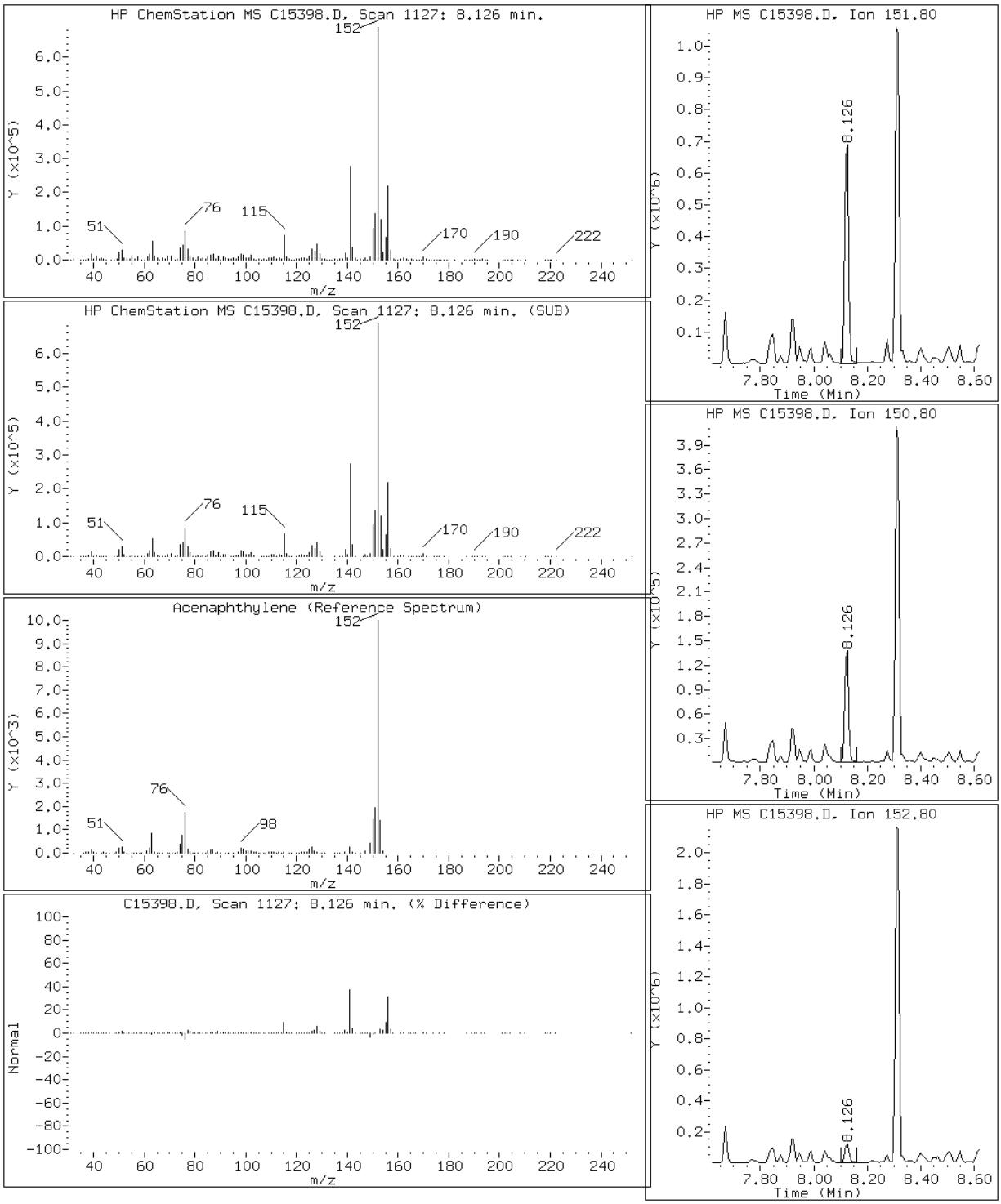
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

43 Acenaphthylene



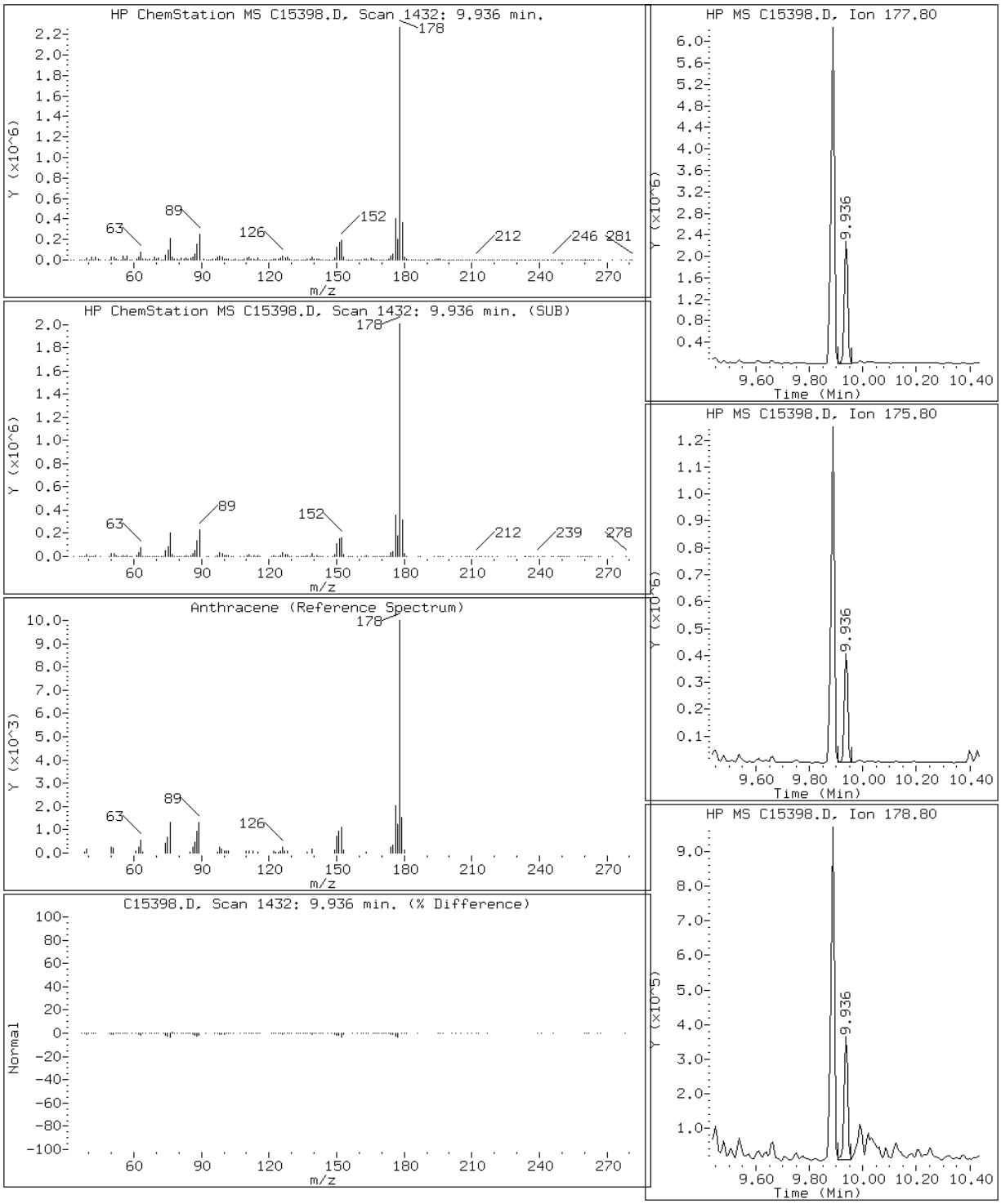
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

66 Anthracene



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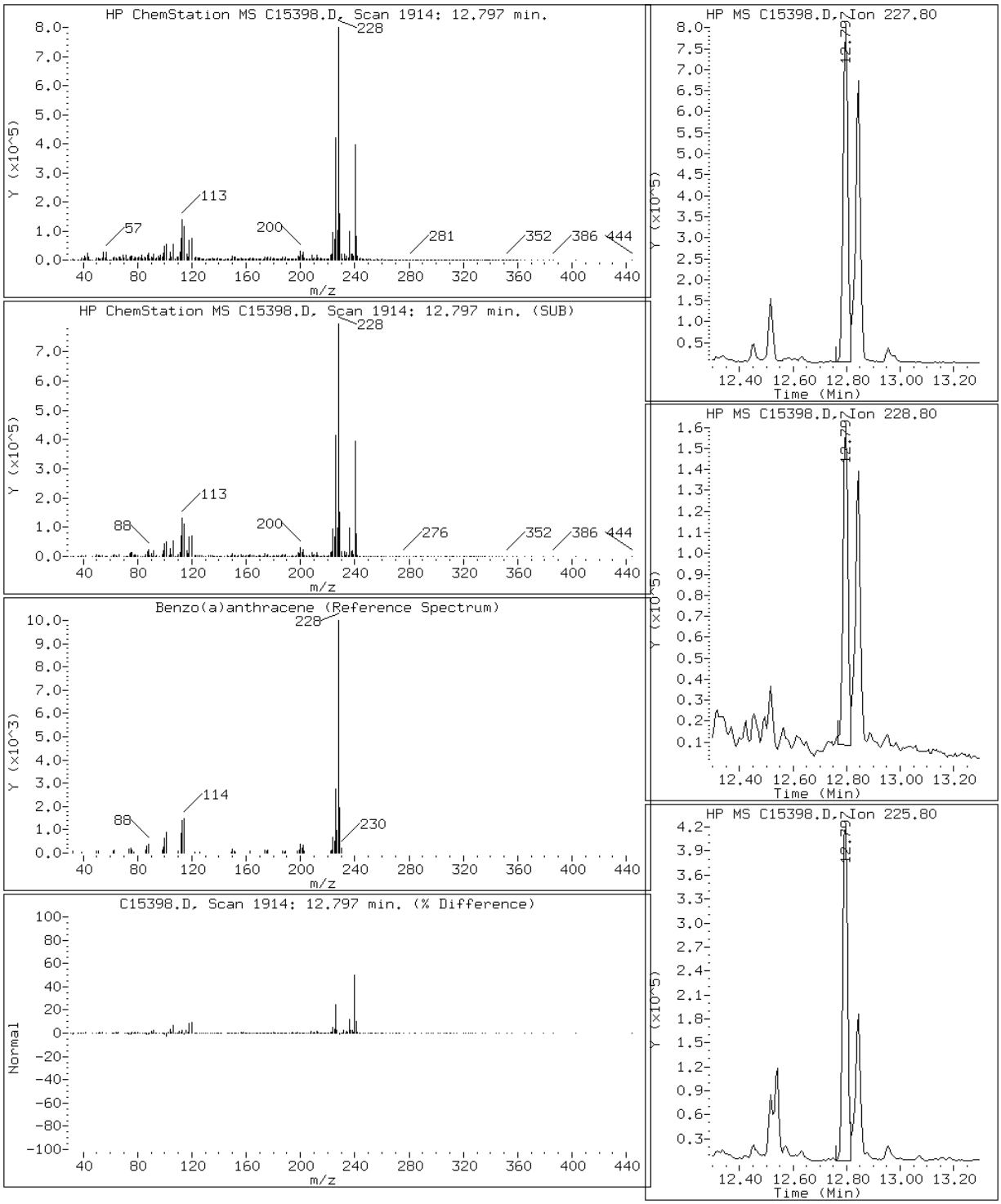
Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

76 Benzo(a)anthracene



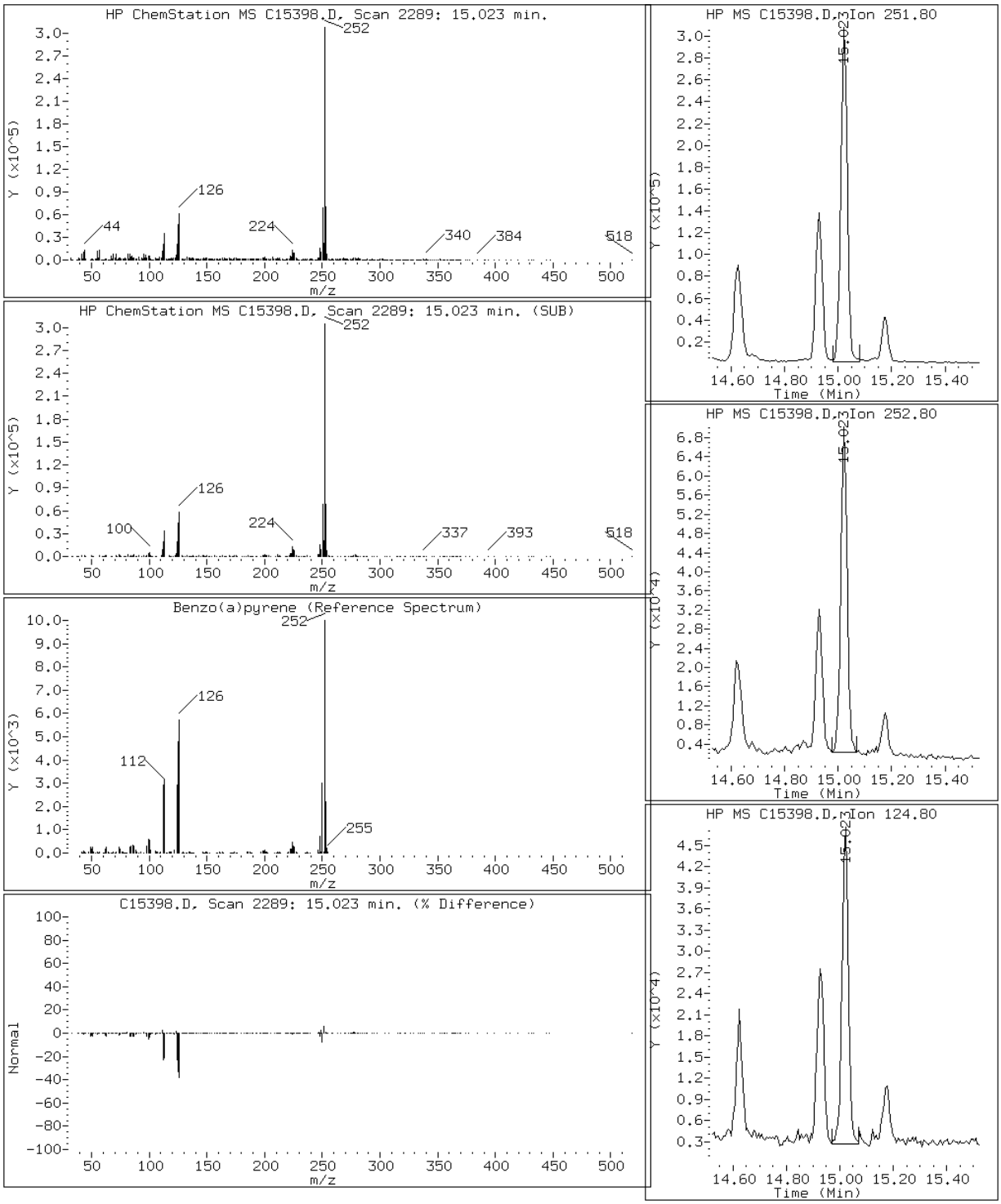
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

83 Benzo(a)pyrene



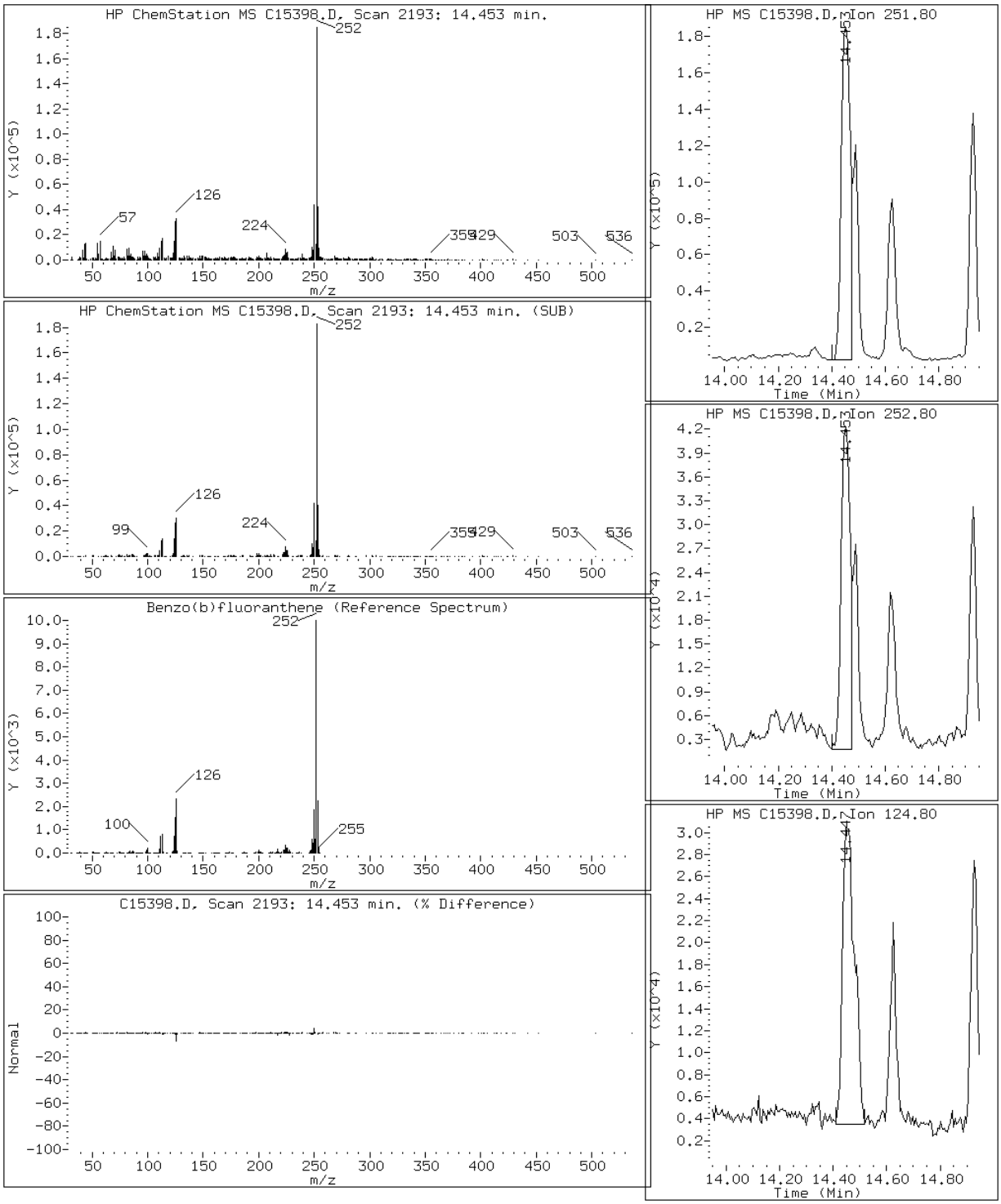
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

81 Benzo(b)fluoranthene



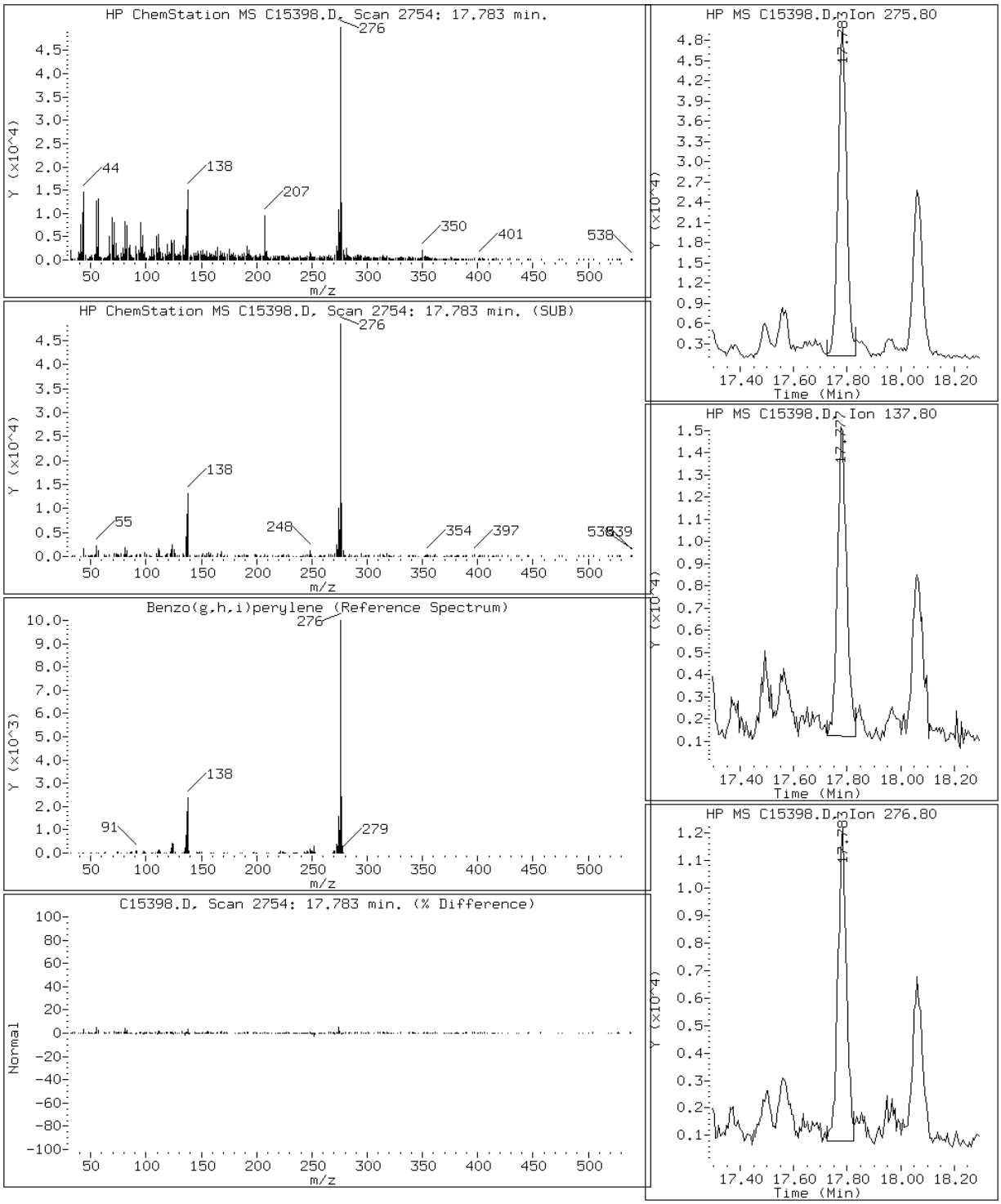
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

86 Benzo(g,h,i)perylene



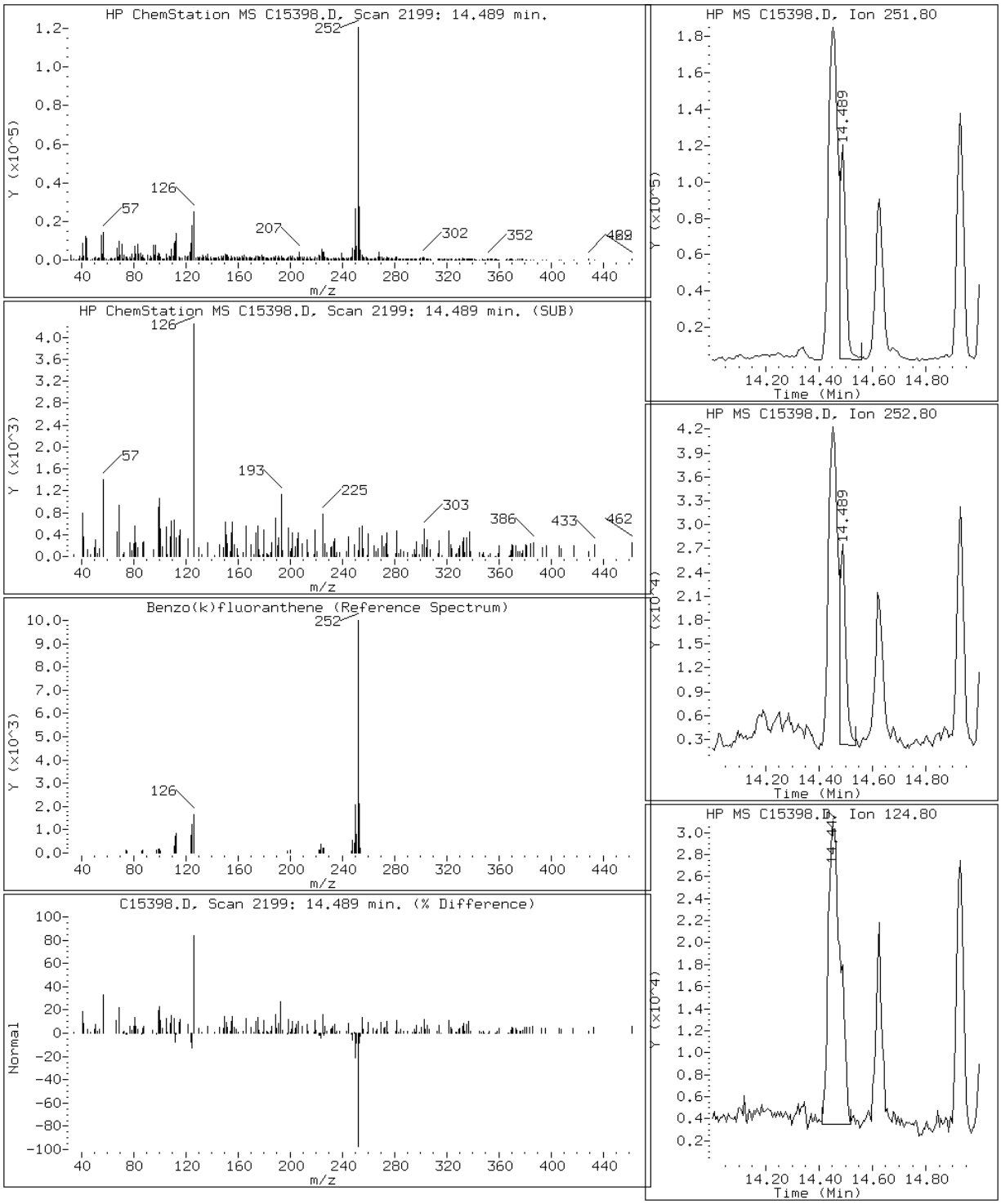
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

82 Benzo(k)fluoranthene



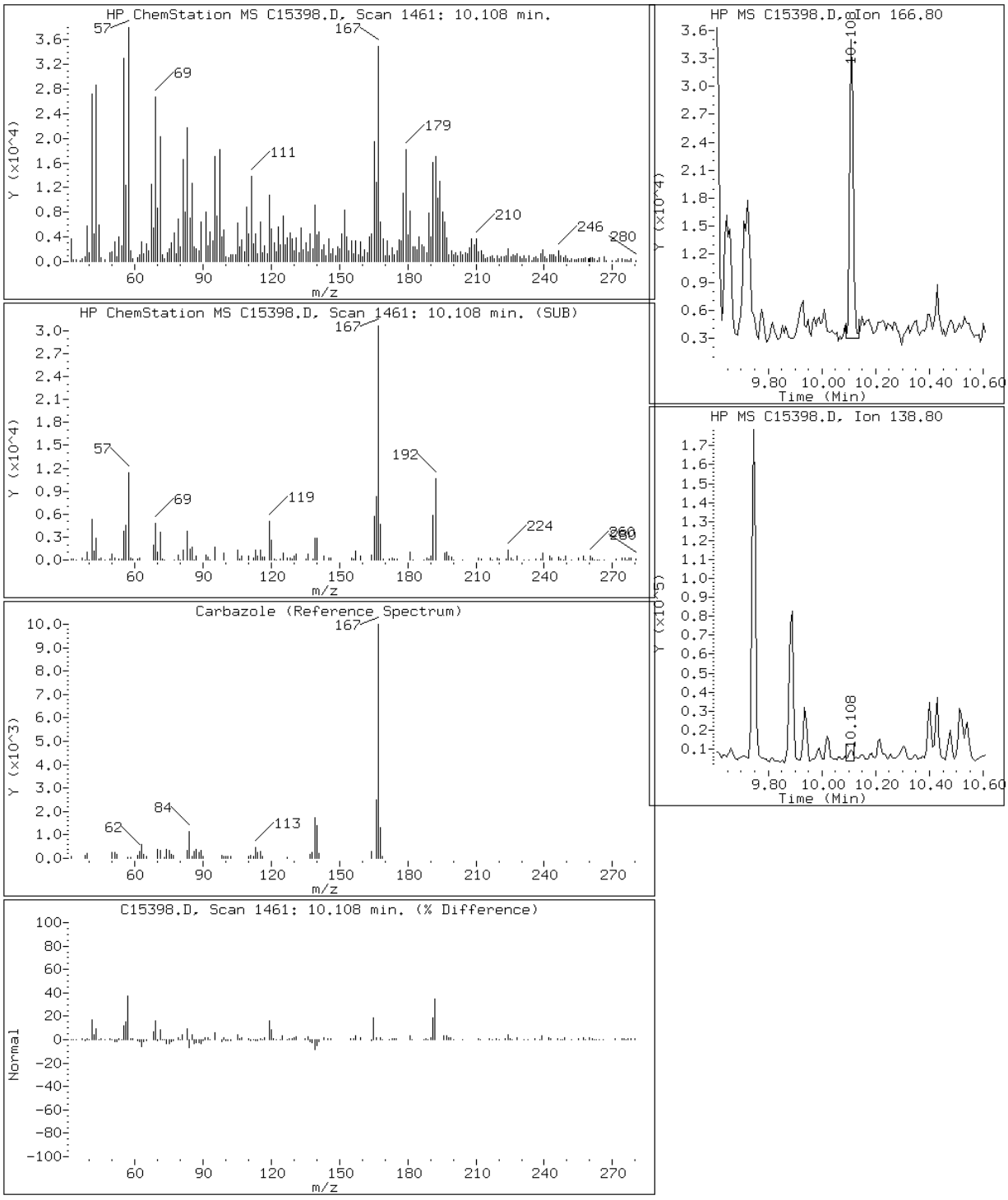
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

65 Carbazole



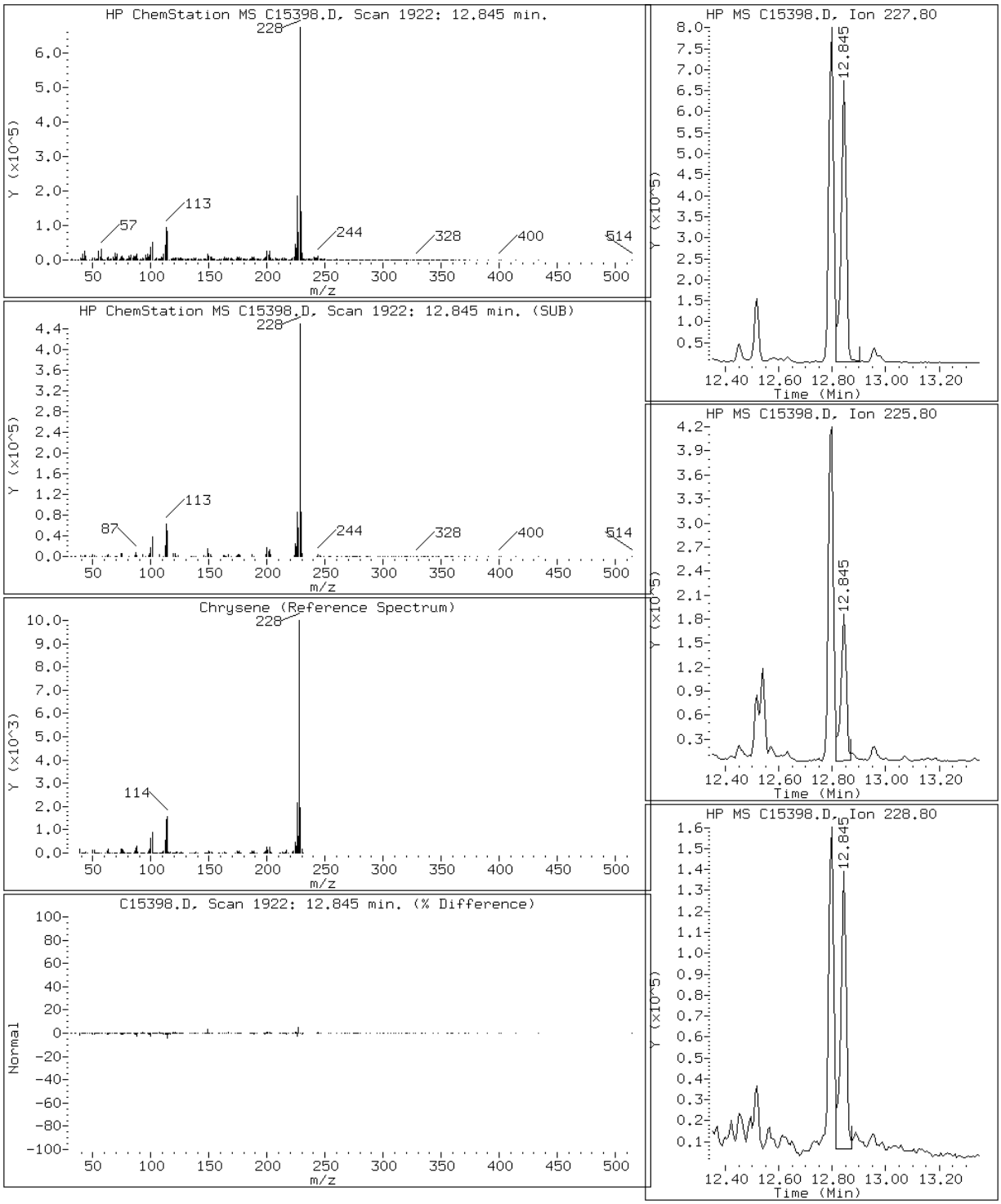
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

77 Chrysene



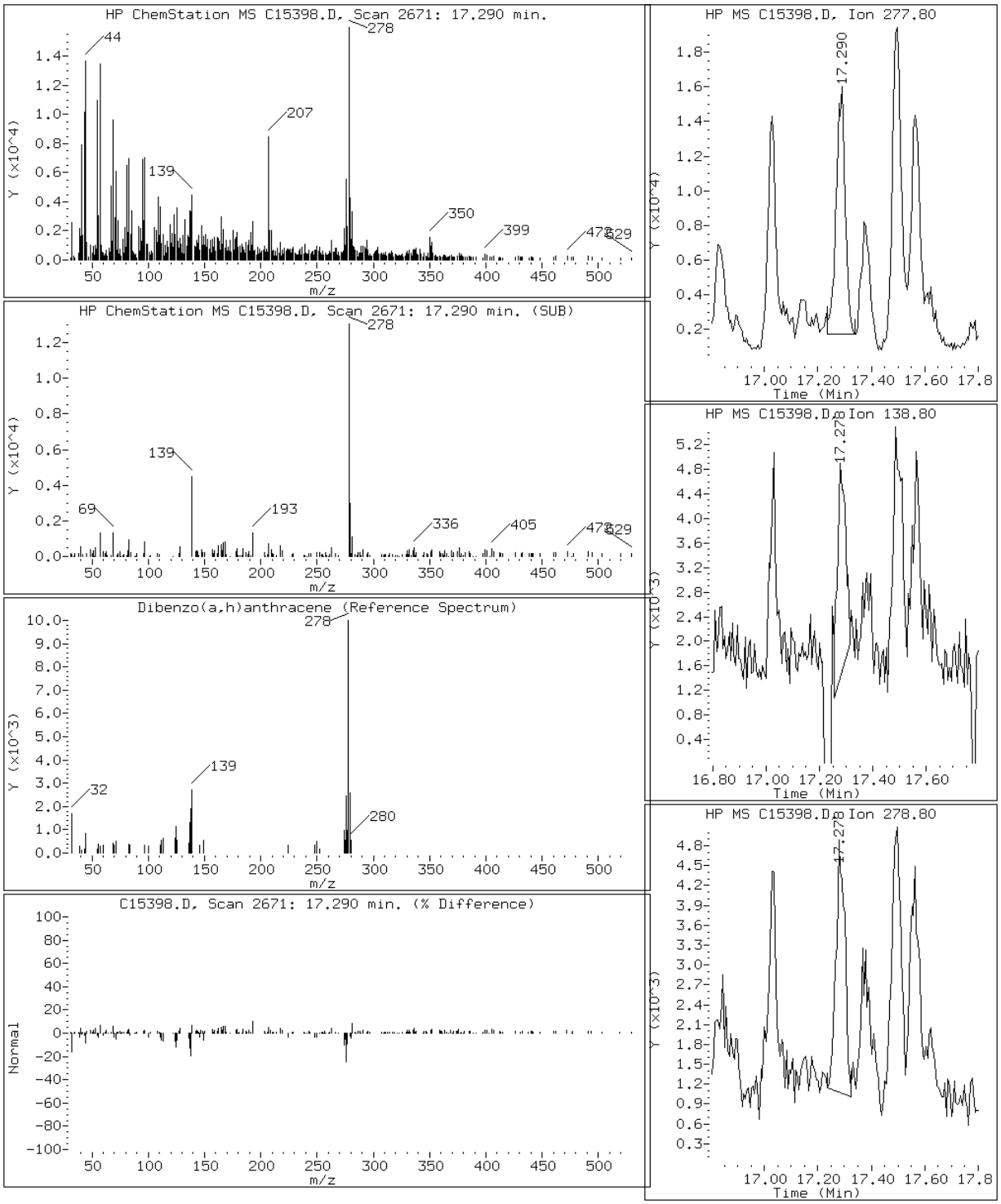
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

85 Dibenzo(a,h)anthracene



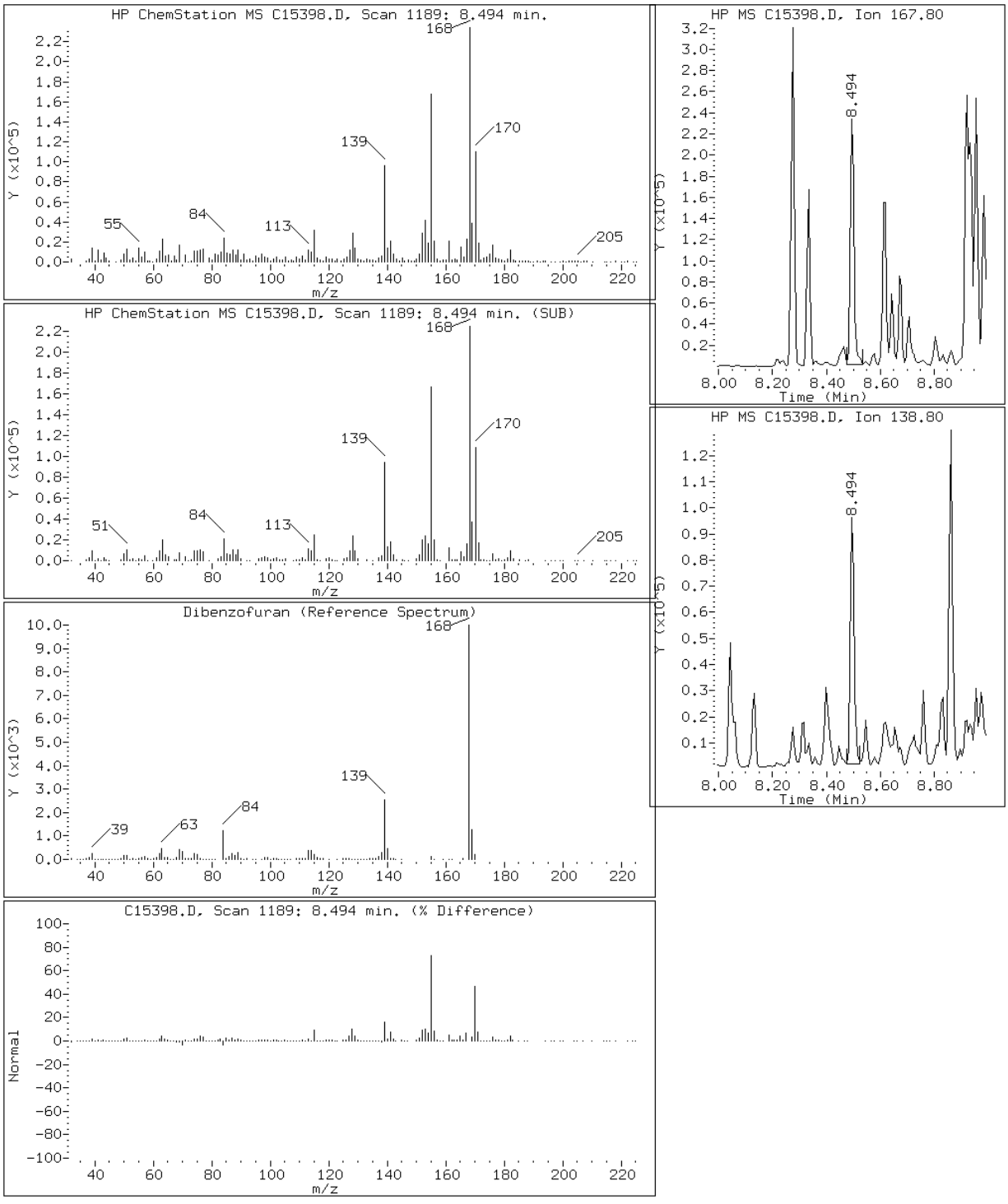
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

49 Dibenzofuran



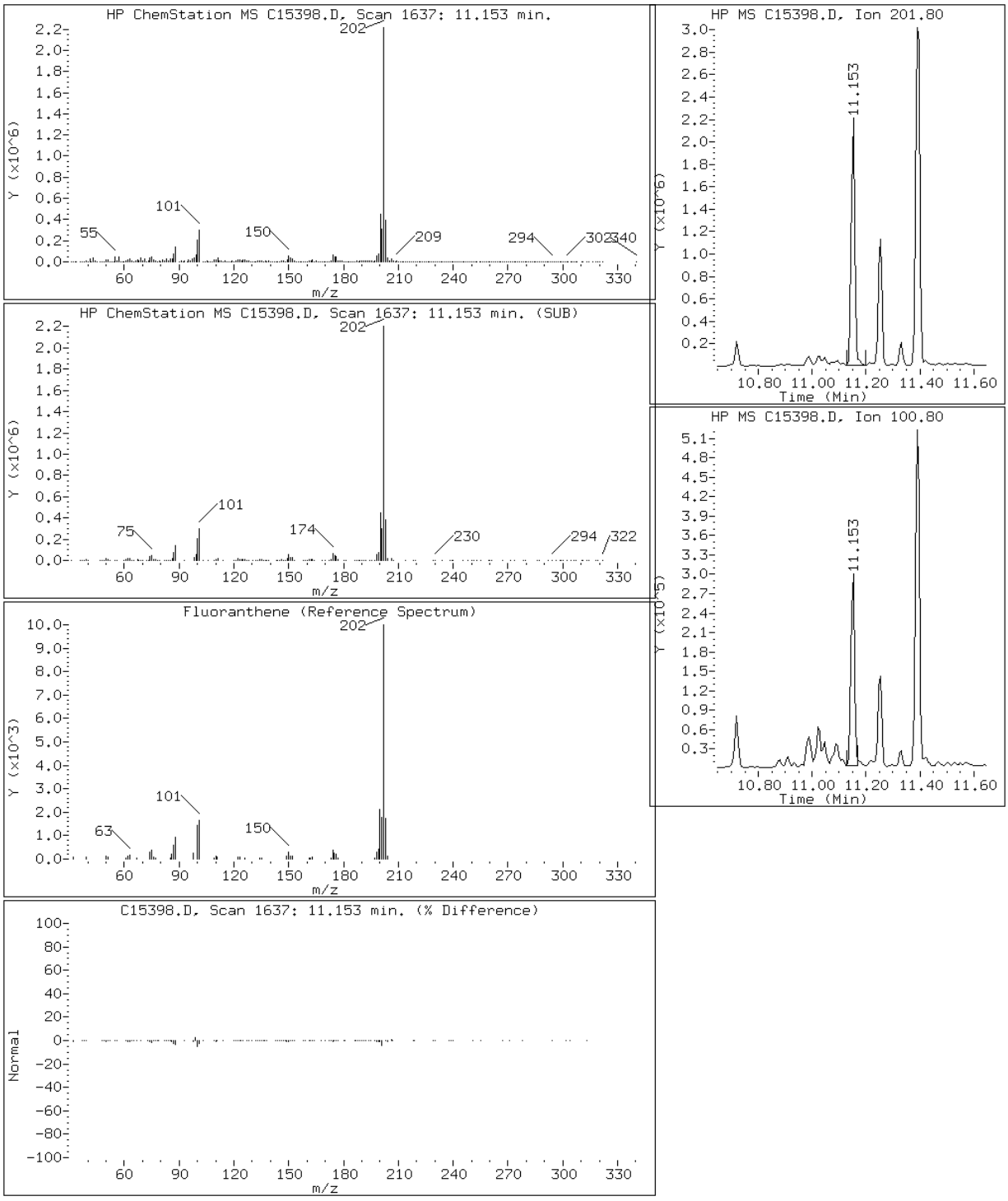
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

68 Fluoranthene



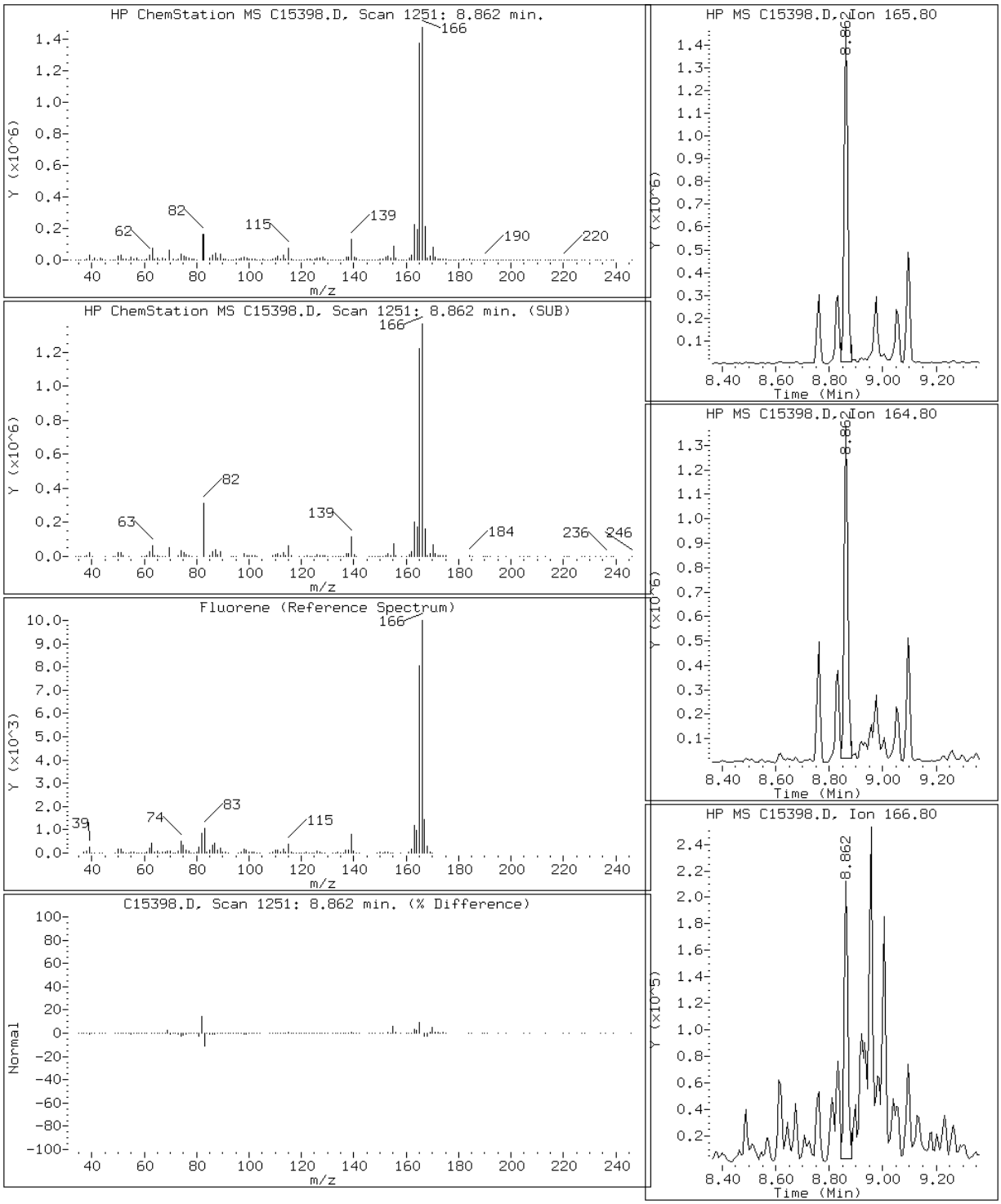
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

52 Fluorene



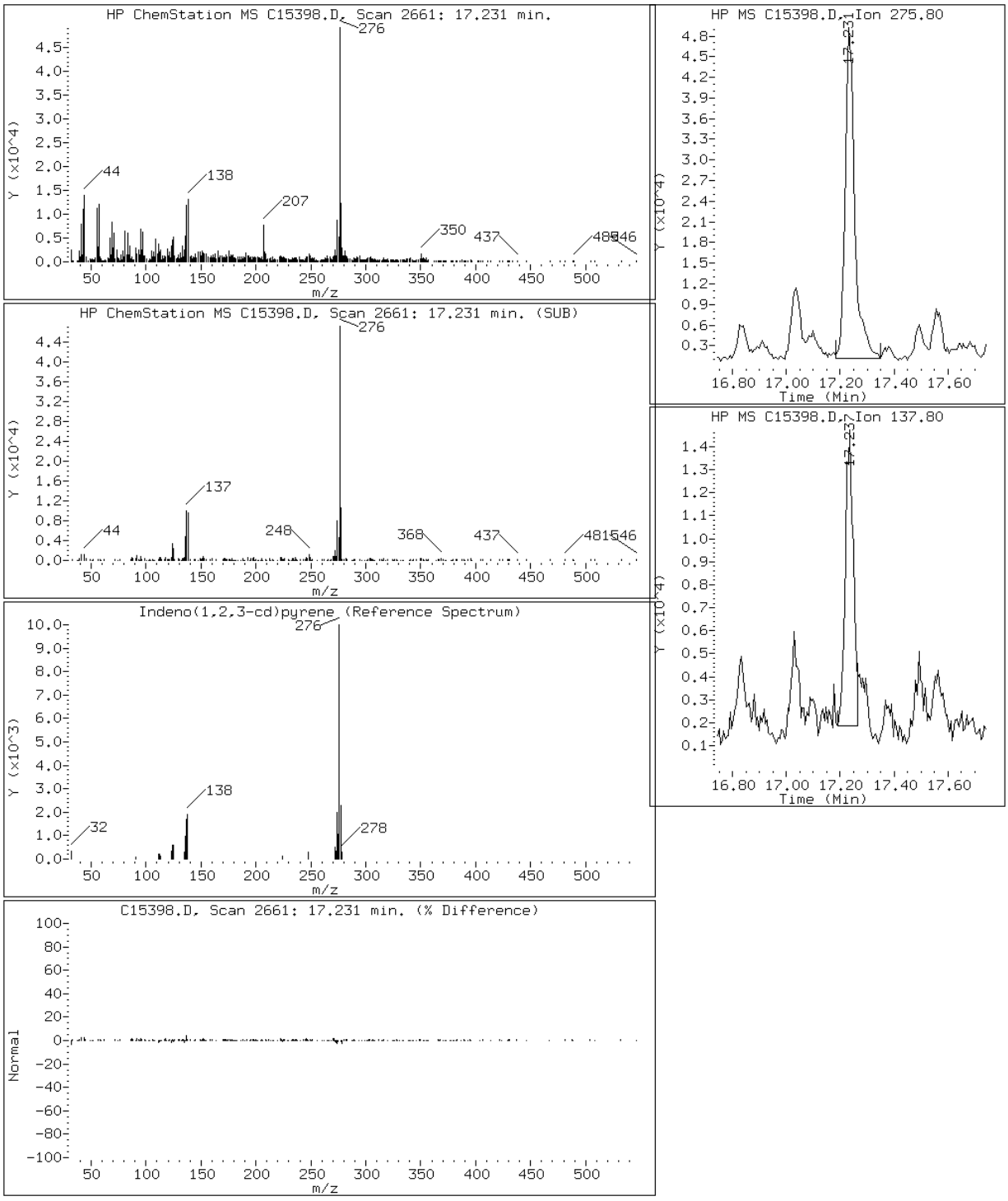
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



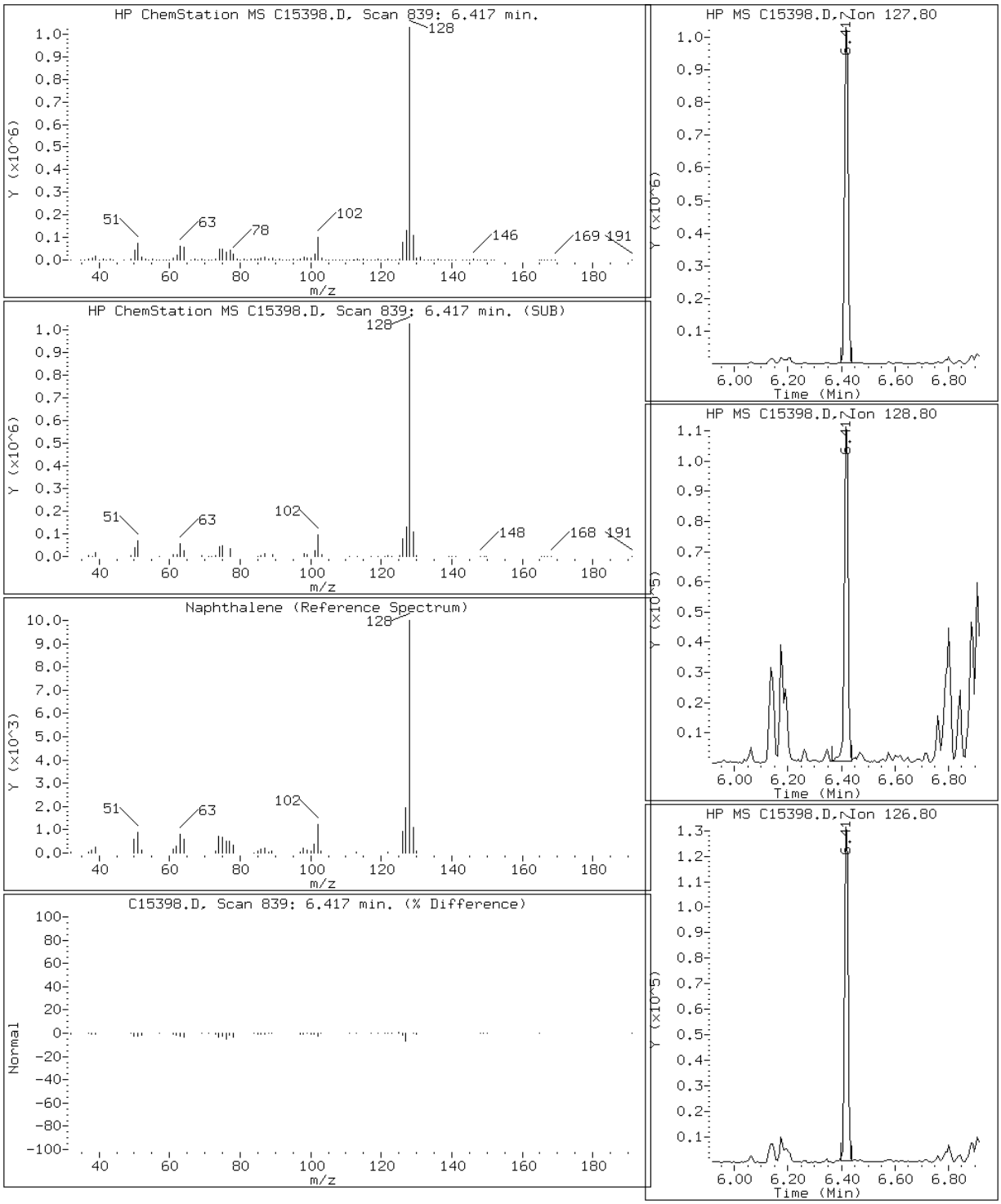
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

30 Naphthalene



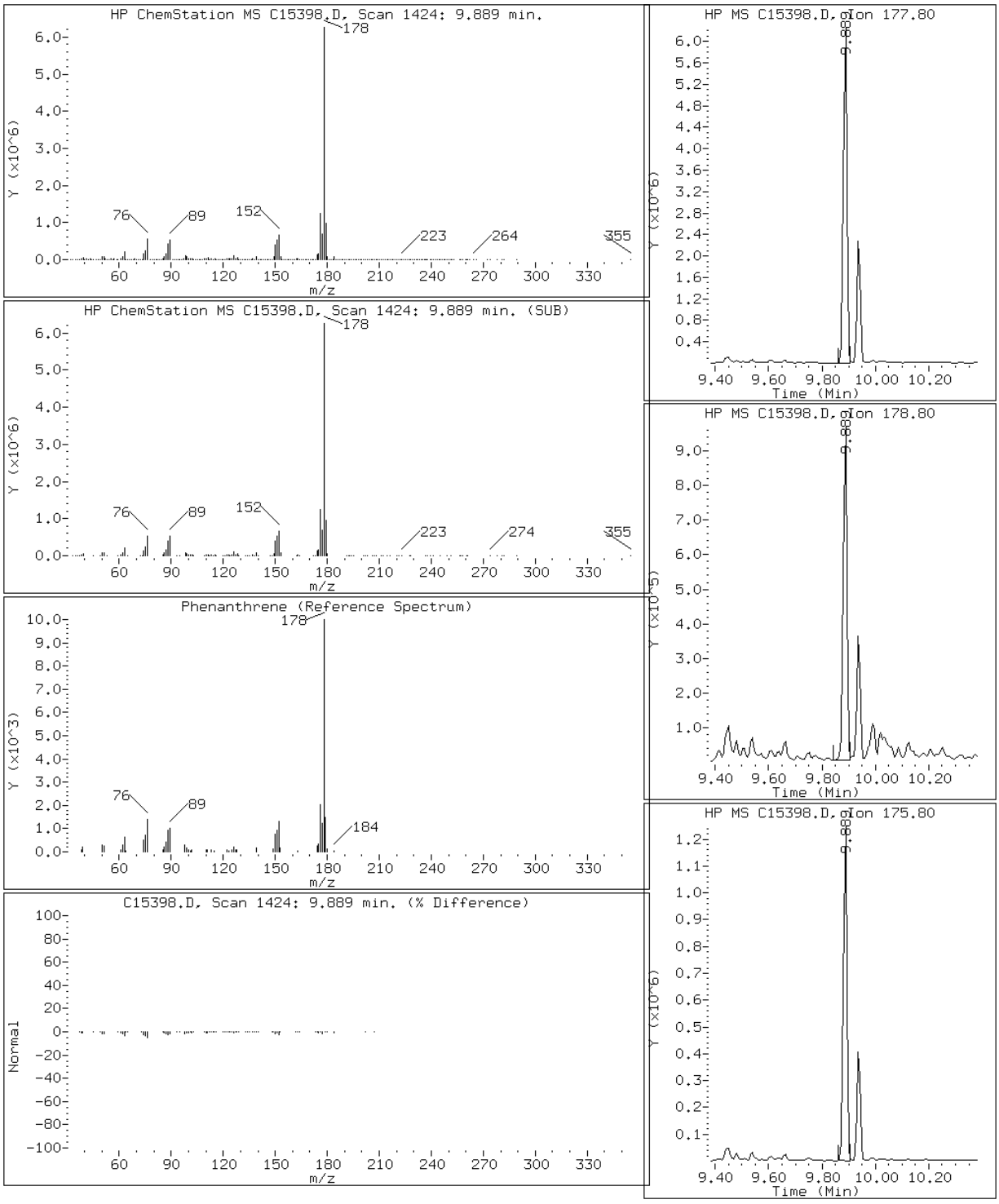
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

64 Phenanthrene



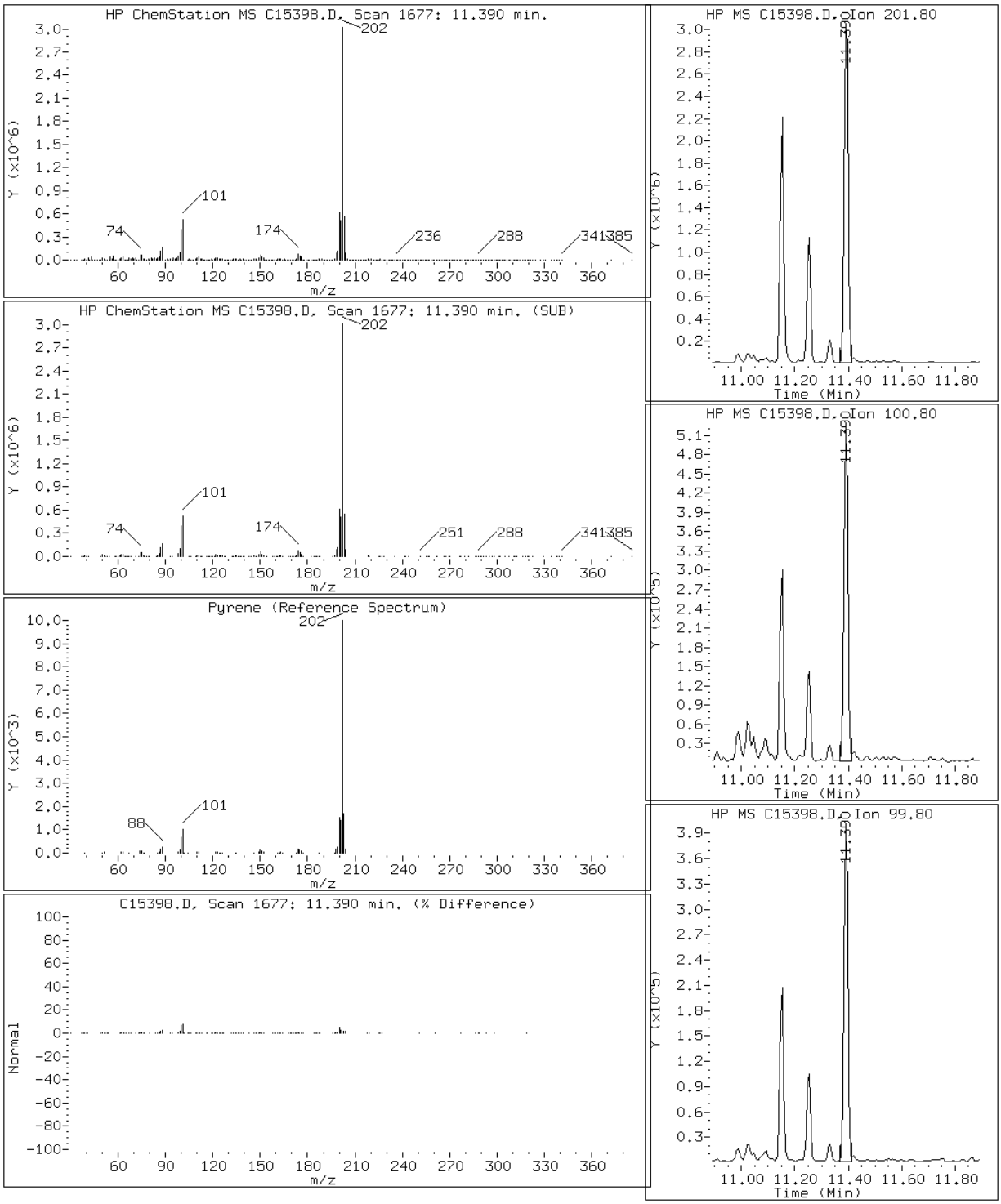
Data File: C15398.D

Date: 22-DEC-2009 15:42

Client ID: PBL-1-30-E(9') F.D. Instrument: msc.i

Sample Info: 220-11066-A-7-B;10 Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') | Lab Sample ID: 220-11066-8

Matrix: Solid | Lab File ID: C15399.D

Analysis Method: 8270C | Date Collected: 12/15/2009 11:20

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.33(g) | Date Analyzed: 12/22/2009 16:13

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	66	J	330	21
95-95-4	2,4,5-Trichlorophenol	2100	U	2100	17
88-06-2	2,4,6-Trichlorophenol	330	U	330	9.1
120-83-2	2,4-Dichlorophenol	330	U	330	18
105-67-9	2,4-Dimethylphenol	330	U	330	16
121-14-2	2,4-Dinitrotoluene	330	U	330	26
51-28-5	2,4-Dinitrophenol	2100	U	2100	99
606-20-2	2,6-Dinitrotoluene	330	U	330	9.7
91-58-7	2-Chloronaphthalene	330	U	330	14
95-57-8	2-Chlorophenol	330	U	330	19
91-57-6	2-Methylnaphthalene	220	J	330	9.5
95-48-7	2-Methylphenol	330	U	330	20
88-74-4	2-Nitroaniline	820	U	820	20
88-75-5	2-Nitrophenol	330	U	330	21
91-94-1	3,3'-Dichlorobenzidine	410	U	410	68
99-09-2	3-Nitroaniline	820	U	820	11
534-52-1	4,6-Dinitro-2-methylphenol	2100	U	2100	140
101-55-3	4-Bromophenyl phenyl ether	330	U	330	21
59-50-7	4-Chloro-3-methylphenol	330	U	330	14
106-47-8	4-Chloroaniline	330	U	330	54
7005-72-3	4-Chlorophenyl phenyl ether	330	U	330	24
106-44-5	4-Methylphenol	330	U	330	22
100-01-6	4-Nitroaniline	330	U	330	25
100-02-7	4-Nitrophenol	2100	U	2100	25
83-32-9	Acenaphthene	41	J	330	20
208-96-8	Acenaphthylene	29	J	330	16
98-86-2	Acetophenone	330	U	330	17
120-12-7	Anthracene	79	J	330	13
1912-24-9	Atrazine	410	U	410	21
100-52-7	Benzaldehyde	470		330	55
56-55-3	Benzo[a]anthracene	440		330	12
50-32-8	Benzo[a]pyrene	380		330	9.0
205-99-2	Benzo[b]fluoranthene	740		330	8.8
191-24-2	Benzo[g,h,i]perylene	290	J	330	22

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') | Lab Sample ID: 220-11066-8

Matrix: Solid | Lab File ID: C15399.D

Analysis Method: 8270C | Date Collected: 12/15/2009 11:20

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.33(g) | Date Analyzed: 12/22/2009 16:13

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	250	J	330	30
111-91-1	Bis(2-chloroethoxy)methane	330	U	330	15
111-44-4	Bis(2-chloroethyl)ether	330	U	330	17
117-81-7	Bis(2-ethylhexyl) phthalate	150	J B	330	32
85-68-7	Butyl benzyl phthalate	330	U	330	19
105-60-2	Caprolactam	330	U	330	26
86-74-8	Carbazole	46	J	330	18
218-01-9	Chrysene	750		330	24
84-74-2	Di-n-butyl phthalate	54	J	330	48
117-84-0	Di-n-octyl phthalate	330	U	330	19
53-70-3	Dibenz(a,h)anthracene	95	J	330	26
132-64-9	Dibenzofuran	73	J	330	23
84-66-2	Diethyl phthalate	330	U	330	33
131-11-3	Dimethyl phthalate	330	U	330	19
206-44-0	Fluoranthene	660		330	16
86-73-7	Fluorene	33	J	330	20
118-74-1	Hexachlorobenzene	330	U	330	23
87-68-3	Hexachlorobutadiene	330	U	330	26
77-47-4	Hexachlorocyclopentadiene	820	U	820	160
67-72-1	Hexachloroethane	330	U	330	19
193-39-5	Indeno[1,2,3-cd]pyrene	330	J	330	21
78-59-1	Isophorone	330	U	330	18
621-64-7	N-Nitrosodi-n-propylamine	330	U	330	22
86-30-6	N-Nitrosodiphenylamine	330	U	330	19
91-20-3	Naphthalene	160	J	330	17
98-95-3	Nitrobenzene	330	U	330	21
87-86-5	Pentachlorophenol	820	U	820	200
85-01-8	Phenanthrene	620		330	16
108-95-2	Phenol	330	U	330	22
129-00-0	Pyrene	610		330	16
108-60-1	2,2'-oxybis[1-chloropropane]	330	U	330	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') | Lab Sample ID: 220-11066-8

Matrix: Solid | Lab File ID: C15399.D

Analysis Method: 8270C | Date Collected: 12/15/2009 11:20

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.33(g) | Date Analyzed: 12/22/2009 16:13

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	60	37-120	
321-60-8	2-Fluorobiphenyl	56	41-120	
367-12-4	2-Fluorophenol	55	34-120	
4165-60-0	Nitrobenzene-d5	57	38-120	
4165-62-2	Phenol-d5	55	36-120	
1718-51-0	Terphenyl-d14	63	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15399.D
Lab Smp Id: 220-11066-A-8-B Client Smp ID: PBL-2-60-E(4')
Inj Date : 22-DEC-2009 16:13
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-8-B
Misc Info : 220-11066-A-8-B
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.330	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	20.323	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.027	5.021	(1.000)	428421	20.0000	
$ 2	2-Fluorophenol	112	3.567	3.549	(0.710)	1127029	41.4491	3400
$ 3	Phenol-d5	99	4.677	4.671	(0.930)	1562454	41.0617	3400
128	Benzaldehyde	77	4.541	4.534	(0.903)	17865	5.75897	470
* 20	Naphthalene-d8	136	6.398	6.398	(1.000)	2076436	20.0000	
$ 21	Nitrobenzene-d5	82	5.627	5.627	(0.879)	1097342	28.5502	2300
26	Benzoic Acid	122	6.137	6.202	(0.959)	24676	5.89463	480
30	Naphthalene	128	6.416	6.416	(1.003)	224091	1.99240	160
34	2-Methylnaphthalene	142	7.164	7.164	(1.120)	204544	2.66344	220
* 35	Acenaphthene-d10	164	8.280	8.274	(1.000)	1529521	20.0000	
$ 40	2-Fluorobiphenyl	172	7.568	7.567	(0.914)	2573552	27.8744	2300
130	1,1'-Biphenyl	154	7.668	7.668	(0.926)	78786	0.80814	66
43	Acenaphthylene	152	8.126	8.119	(0.981)	47946	0.35332	29
46	Acenaphthene	153	8.310	8.309	(1.004)	41475	0.50344	41
49	Dibenzofuran	168	8.494	8.493	(1.026)	108754	0.89678	73
52	Fluorene	166	8.861	8.861	(1.070)	39973	0.40267	33
$ 56	2,4,6-Tribromophenol	330	9.117	9.117	(1.101)	632320	45.3581	3700
* 57	Phenanthrene-d10	188	9.859	9.852	(1.000)	2612785	20.0000	

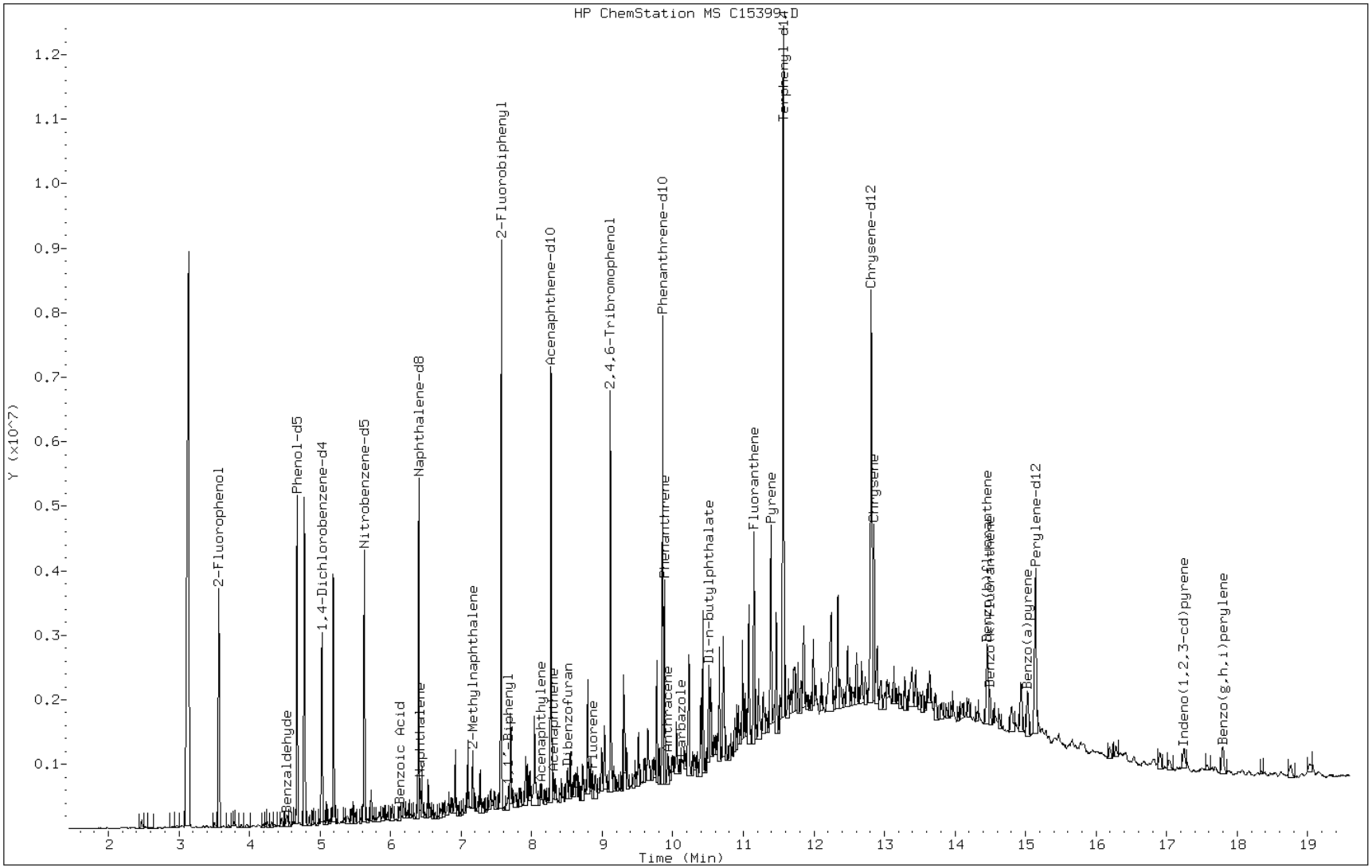
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	64 Phenanthrene	178	9.882	9.882	(1.002)	1111114	7.53984	620
	65 Carbazole	167	10.108	10.108	(1.025)	82629	0.56371	46
	66 Anthracene	178	9.936	9.936	(1.008)	146964	0.96023	79
	67 Di-n-butylphthalate	149	10.500	10.499	(1.065)	116184	0.65781	54
	68 Fluoranthene	202	11.153	11.146	(1.131)	1374513	8.08837	660
*	70 Chrysene-d12	240	12.814	12.808	(1.000)	2743592	20.0000	
	72 Pyrene	202	11.390	11.390	(0.889)	1226106	7.50032	610
$	73 Terphenyl-d14	244	11.568	11.562	(0.903)	3578351	31.3476	2600
	76 Benzo(a)anthracene	228	12.803	12.796	(0.999)	836000	5.38770	440
	77 Chrysene	228	12.850	12.850	(1.003)	1374805	9.17171	750
	78 Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	193812	1.87672	150
*	79 Perylene-d12	264	15.141	15.129	(1.000)	1516217	20.0000	
	81 Benzo(b)fluoranthene	252	14.453	14.452	(0.955)	942350	8.98182	740
	82 Benzo(k)fluoranthene	252	14.500	14.500	(0.958)	349209	3.05724	250
	83 Benzo(a)pyrene	252	15.028	15.028	(0.993)	419003	4.68672	380
	84 Indeno(1,2,3-cd)pyrene	276	17.248	17.242	(1.139)	312375	3.98136	330
	85 Dibenzo(a,h)anthracene	278	17.296	17.301	(1.142)	96414	1.15665	95
	86 Benzo(g,h,i)perylene	276	17.794	17.794	(1.175)	299408	3.50627	290

Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas



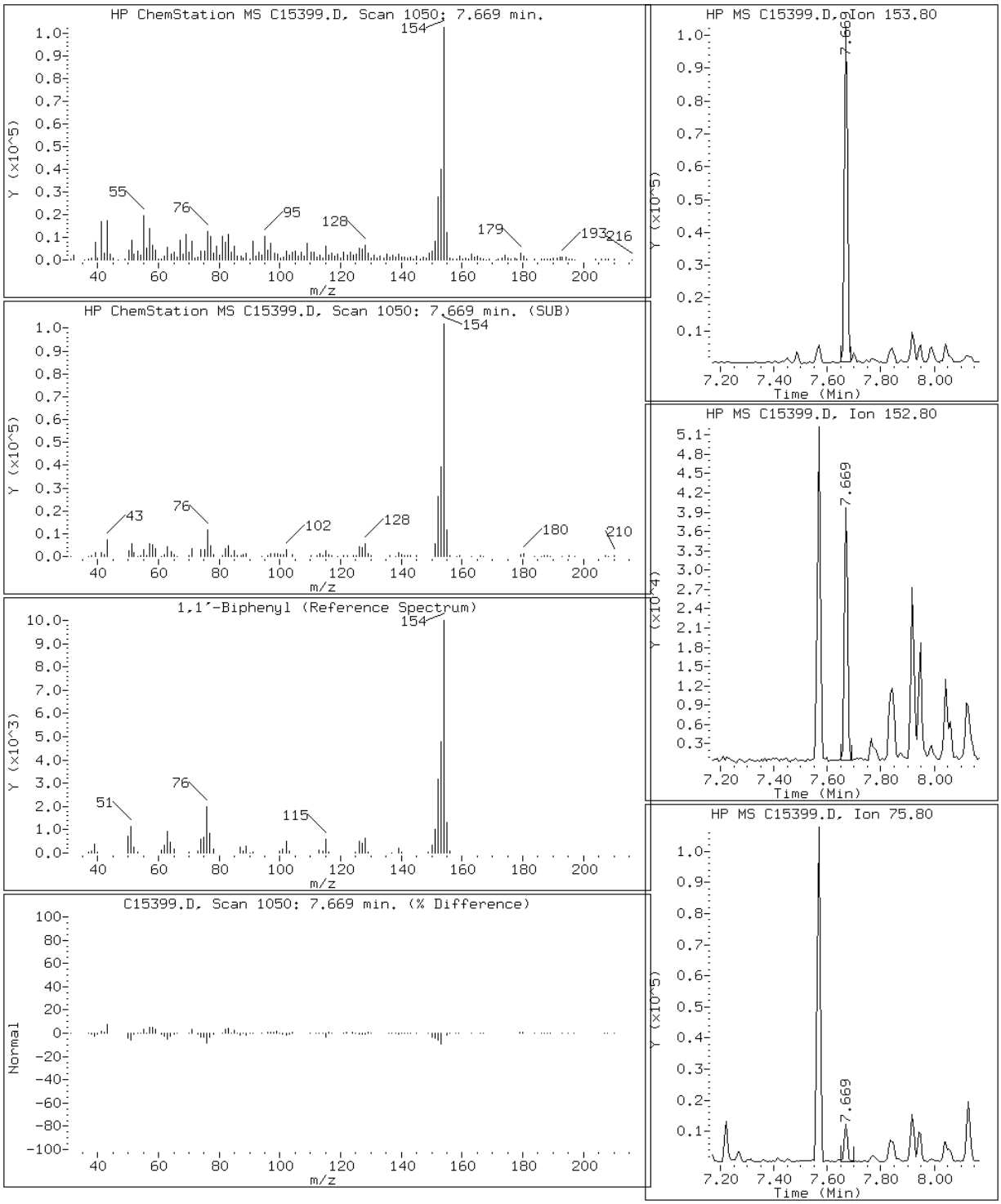
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

130 1,1'-Biphenyl



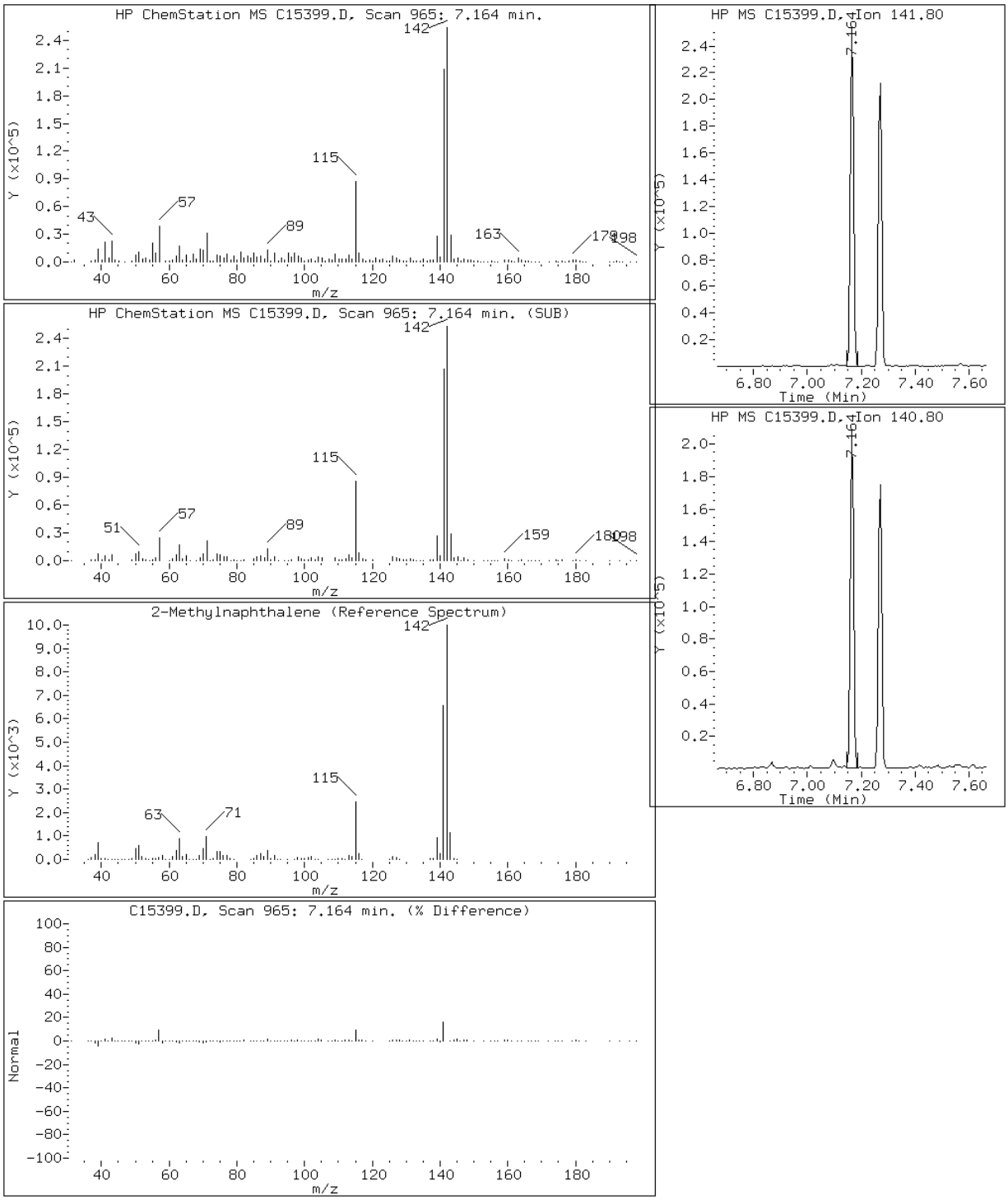
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

34 2-Methylnaphthalene



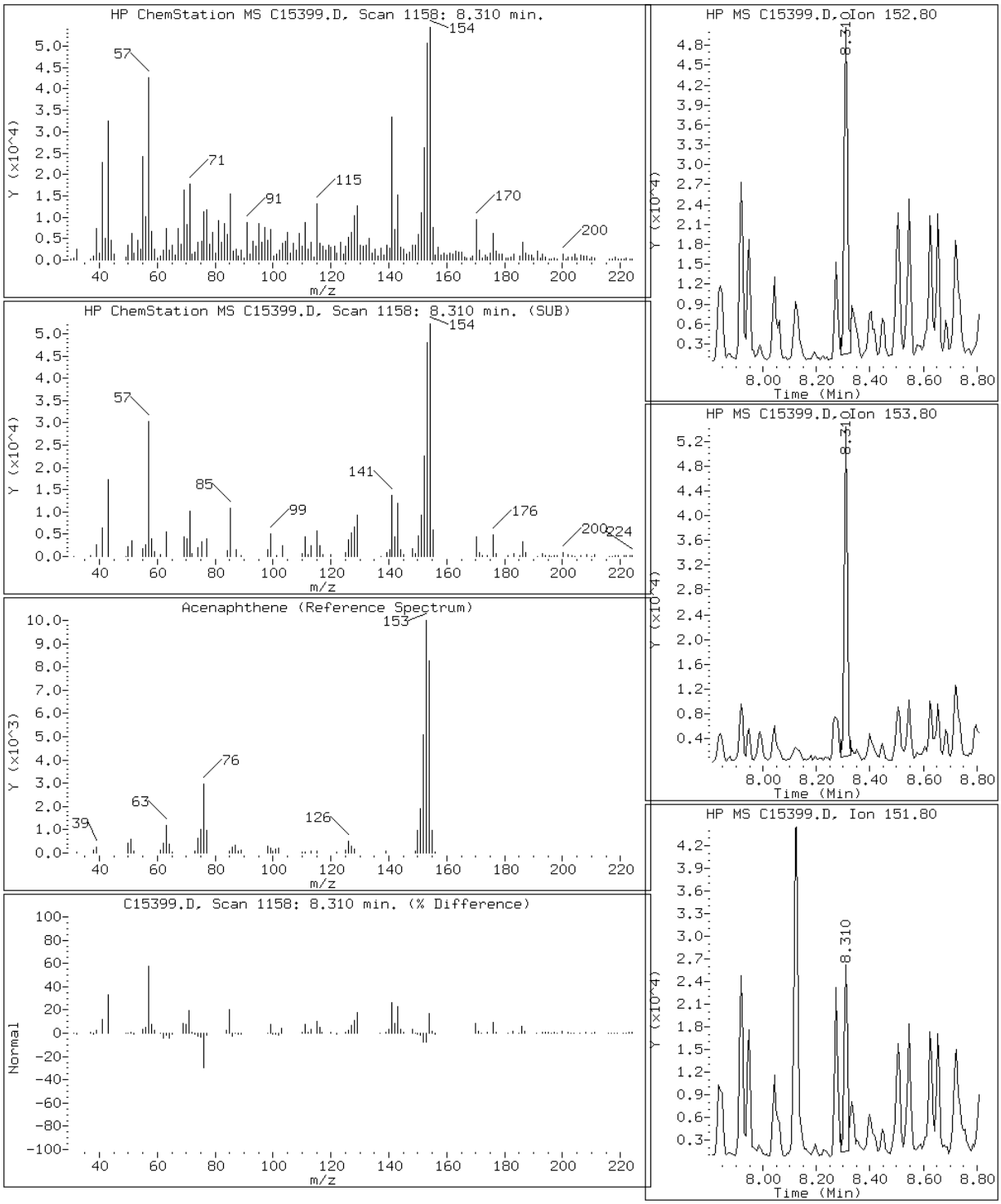
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

46 Acenaphthene



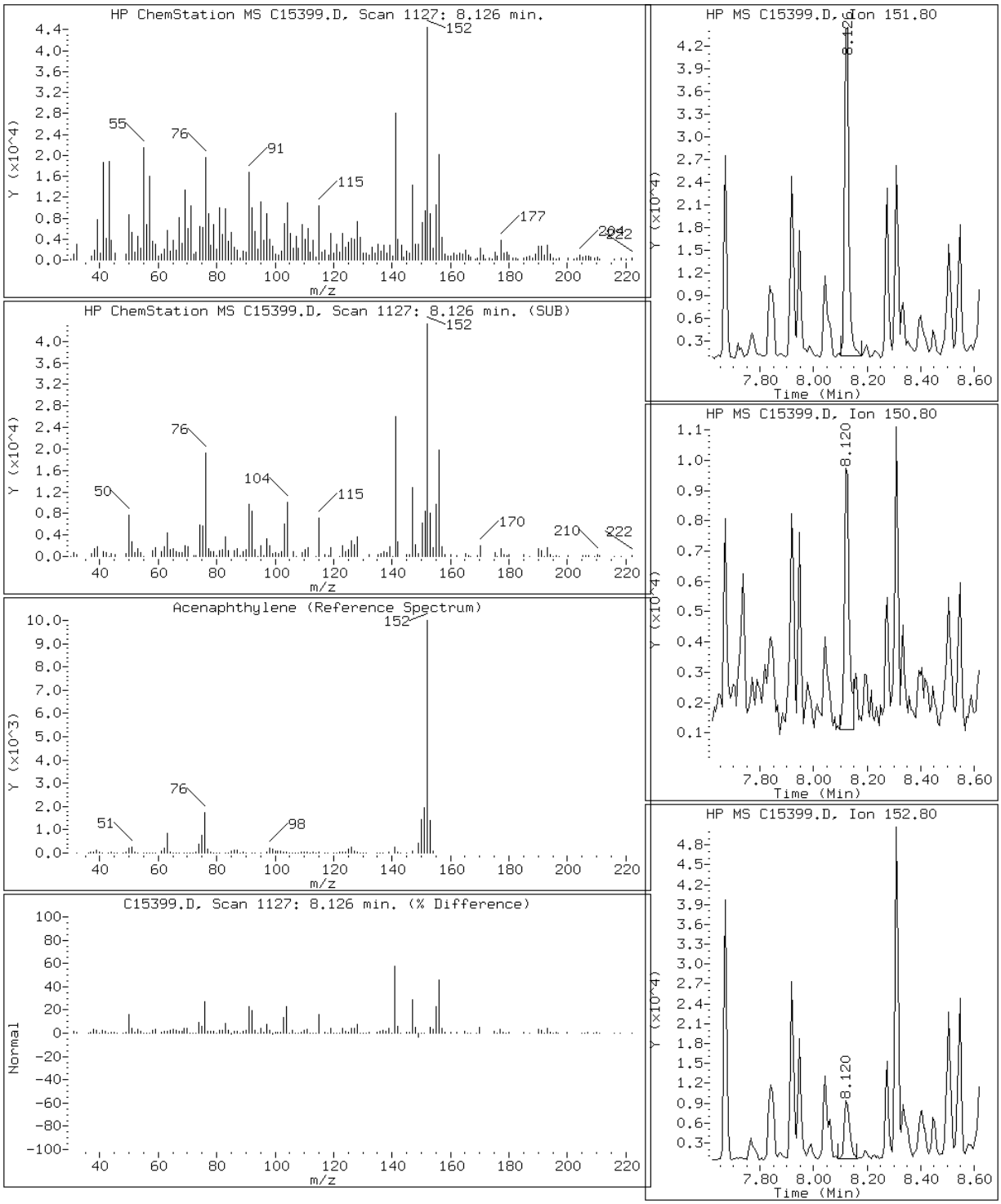
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

43 Acenaphthylene



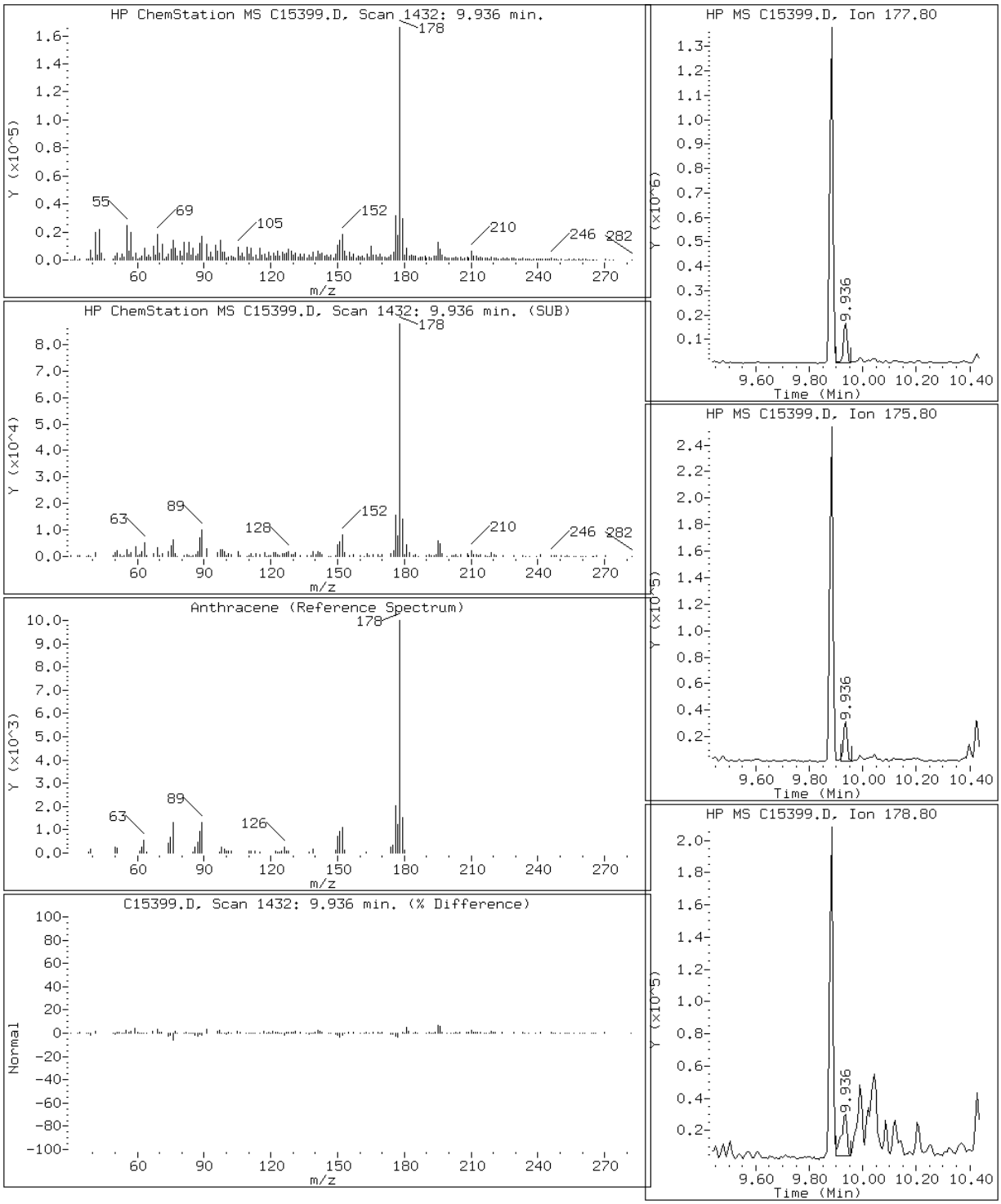
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

66 Anthracene



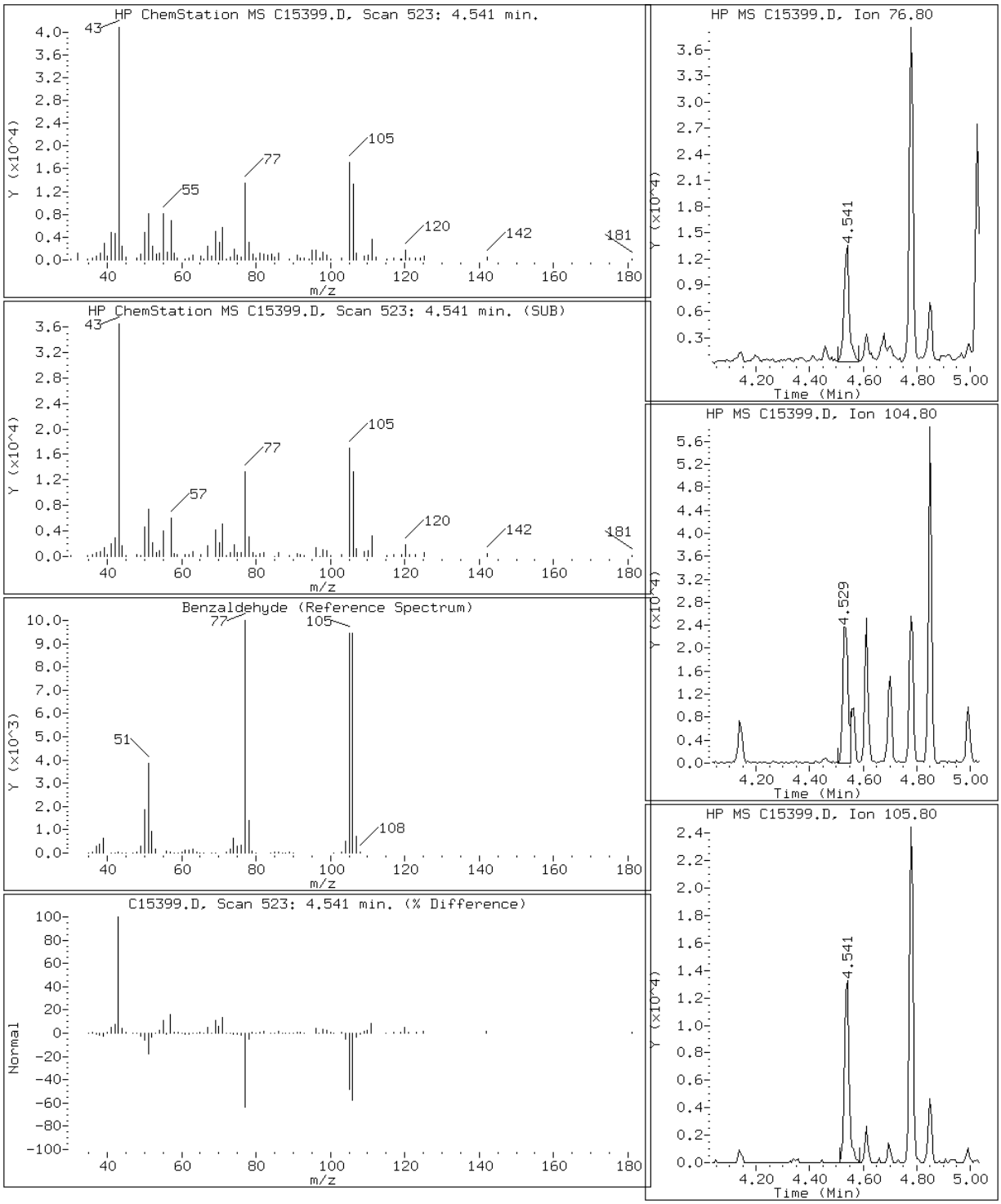
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

128 Benzaldehyde



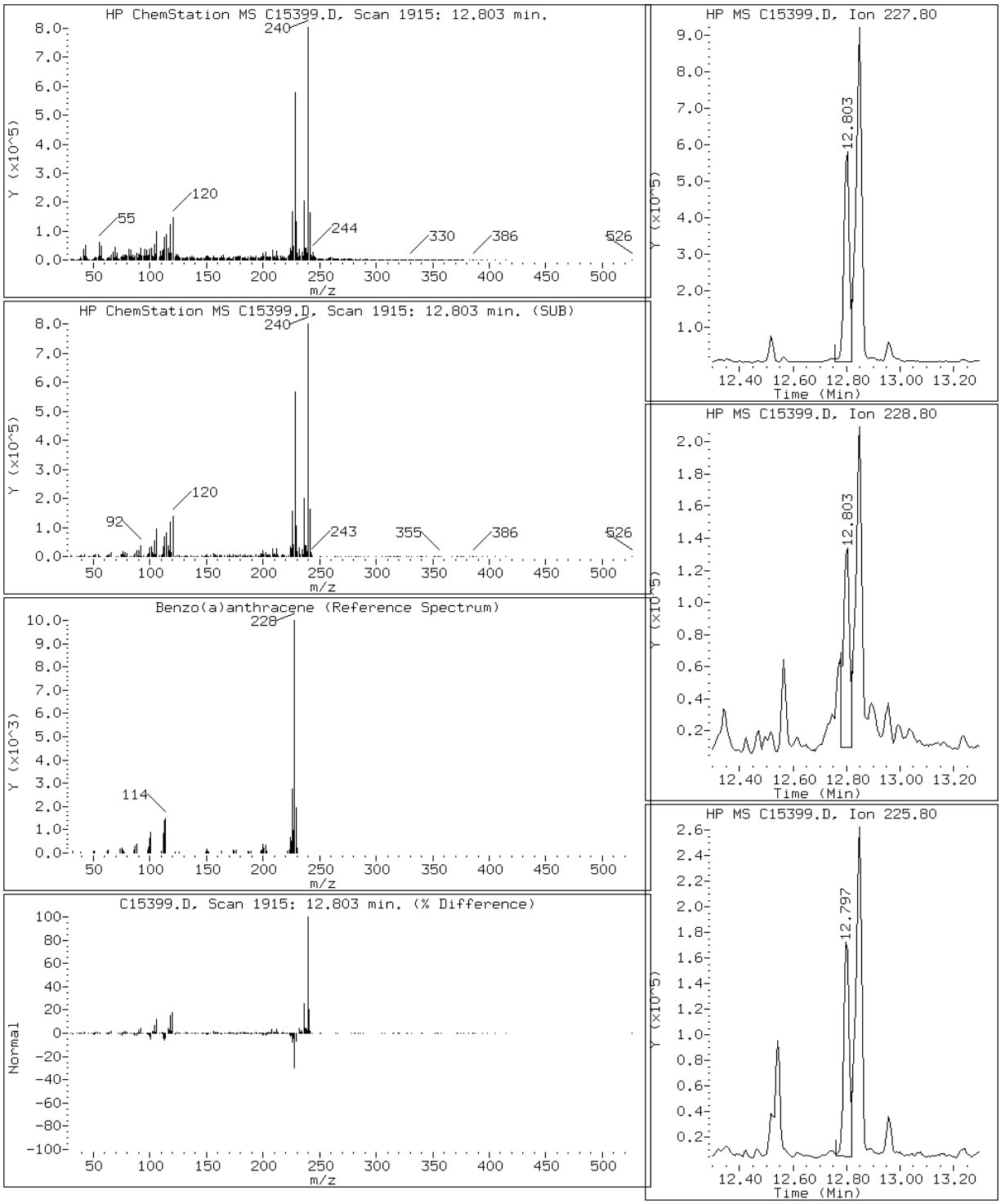
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

76 Benzo(a)anthracene



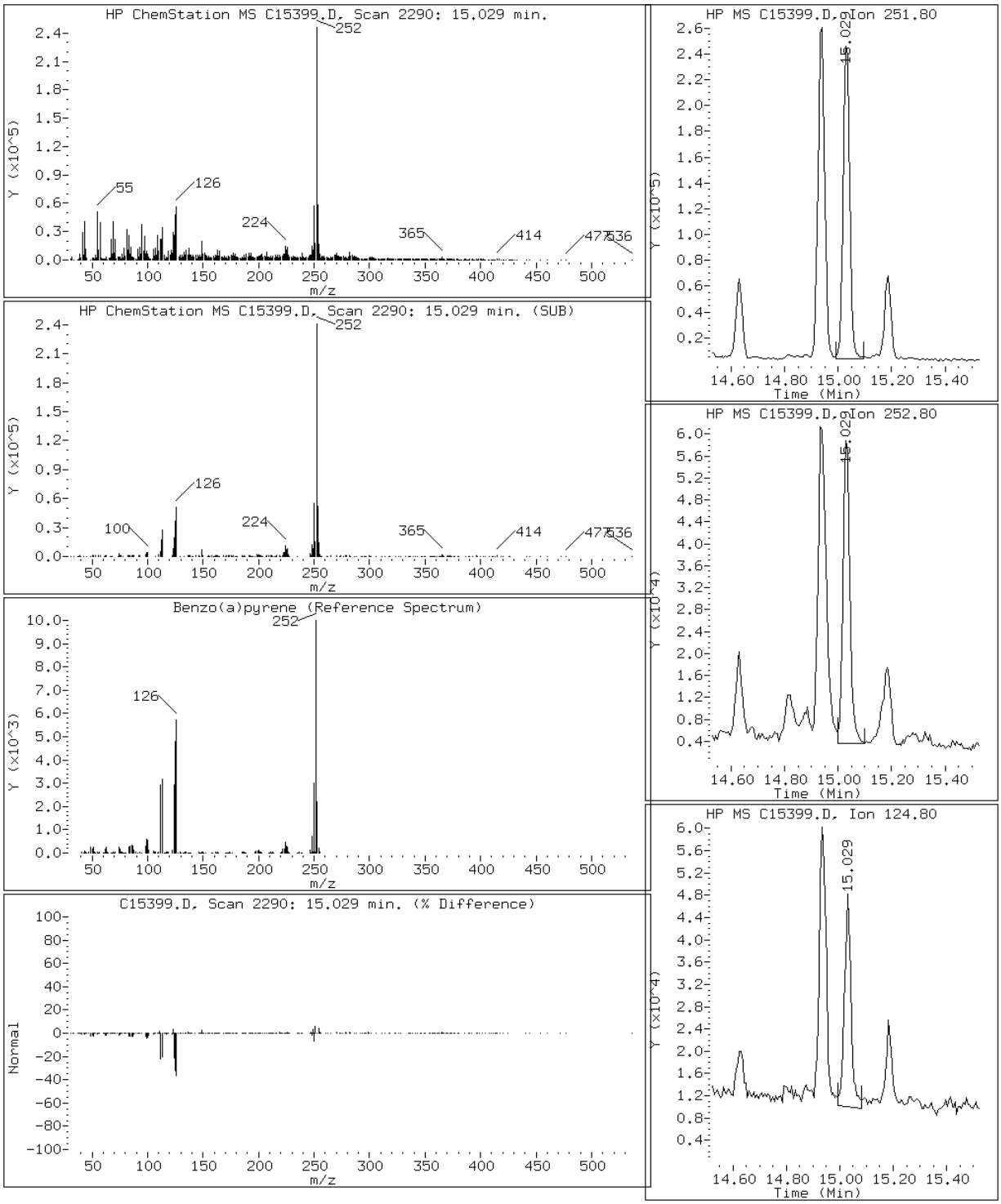
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

83 Benzo(a)pyrene



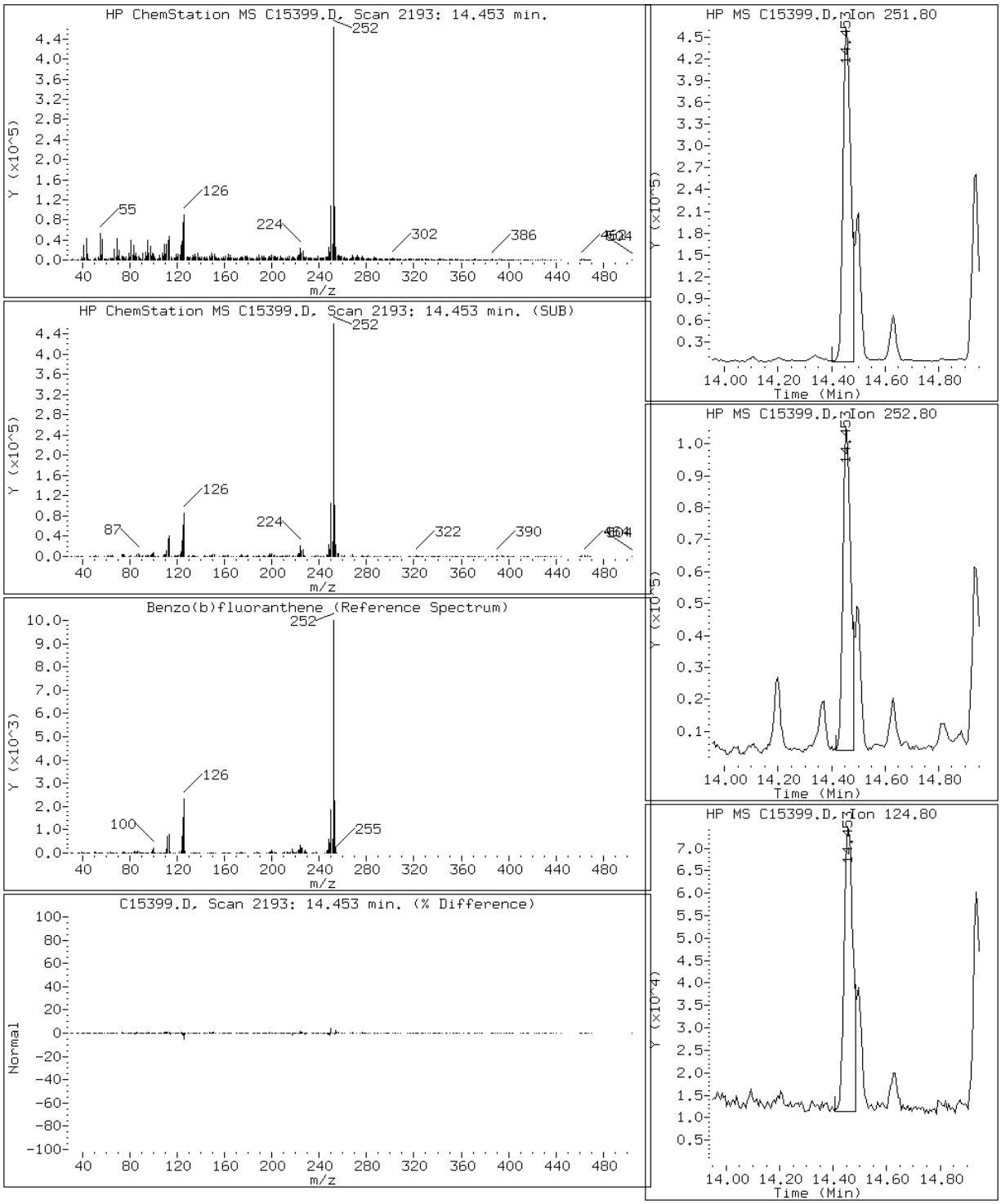
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

81 Benzo(b)fluoranthene



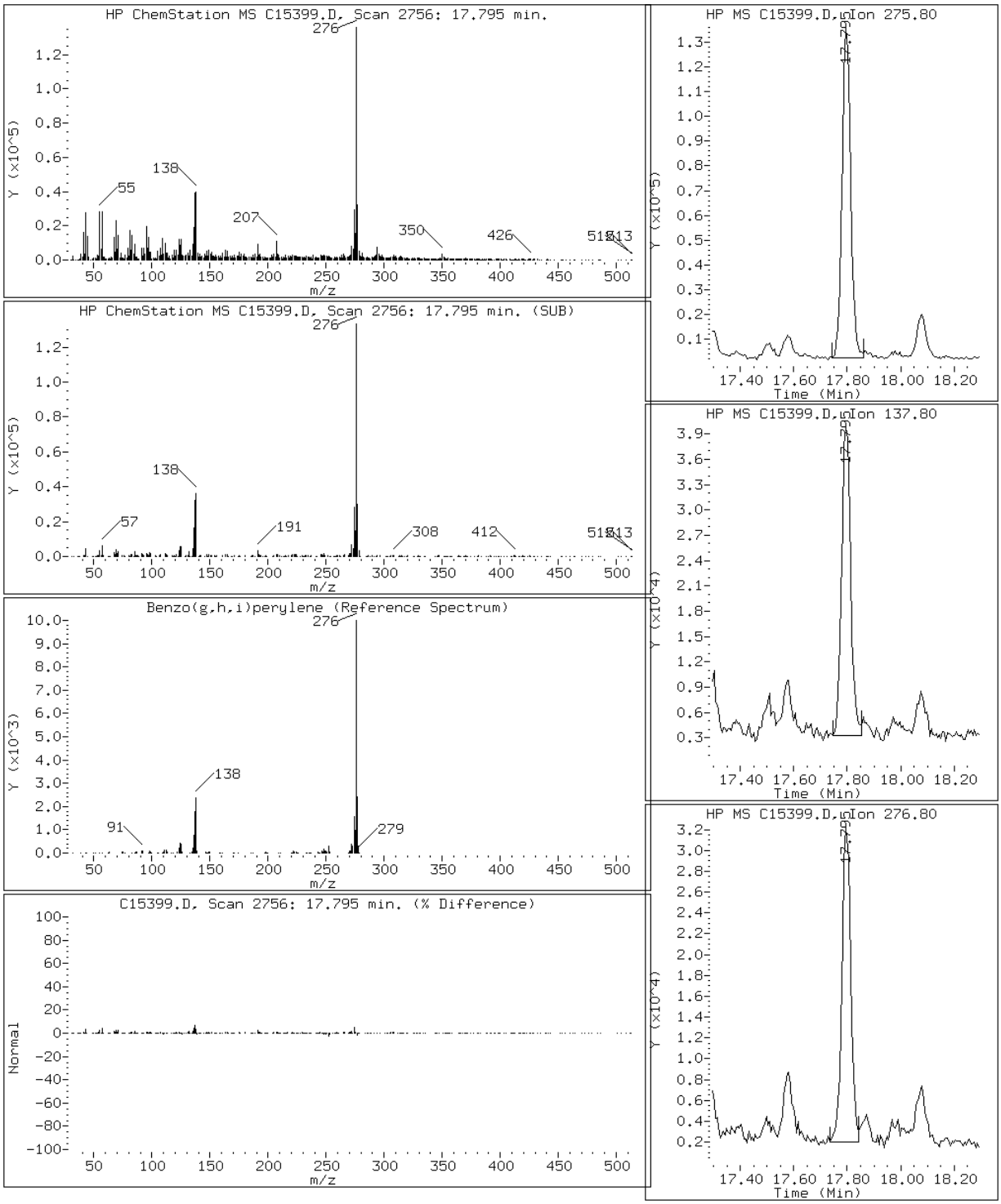
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

86 Benzo(g,h,i)perylene



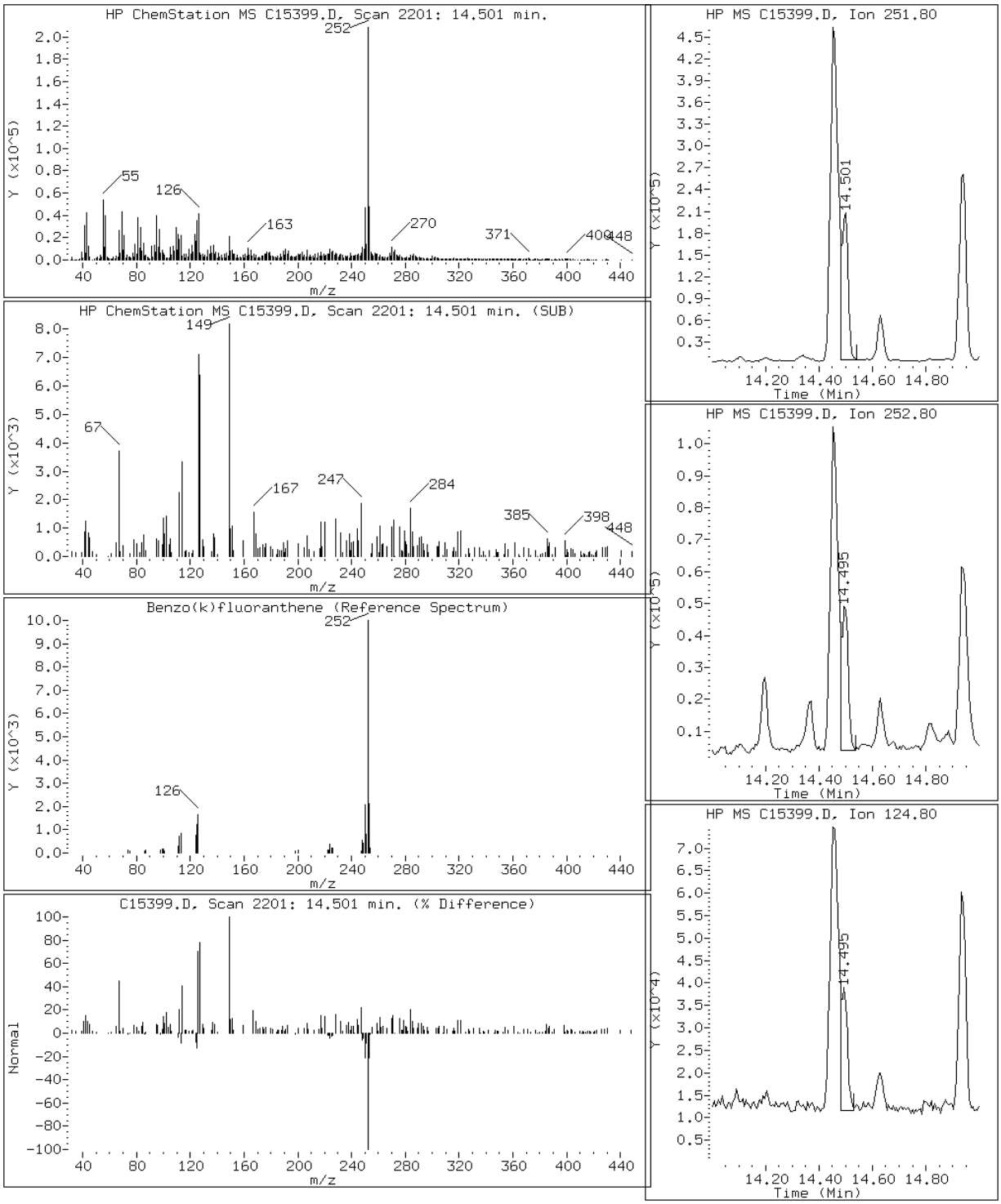
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

82 Benzo(k)fluoranthene



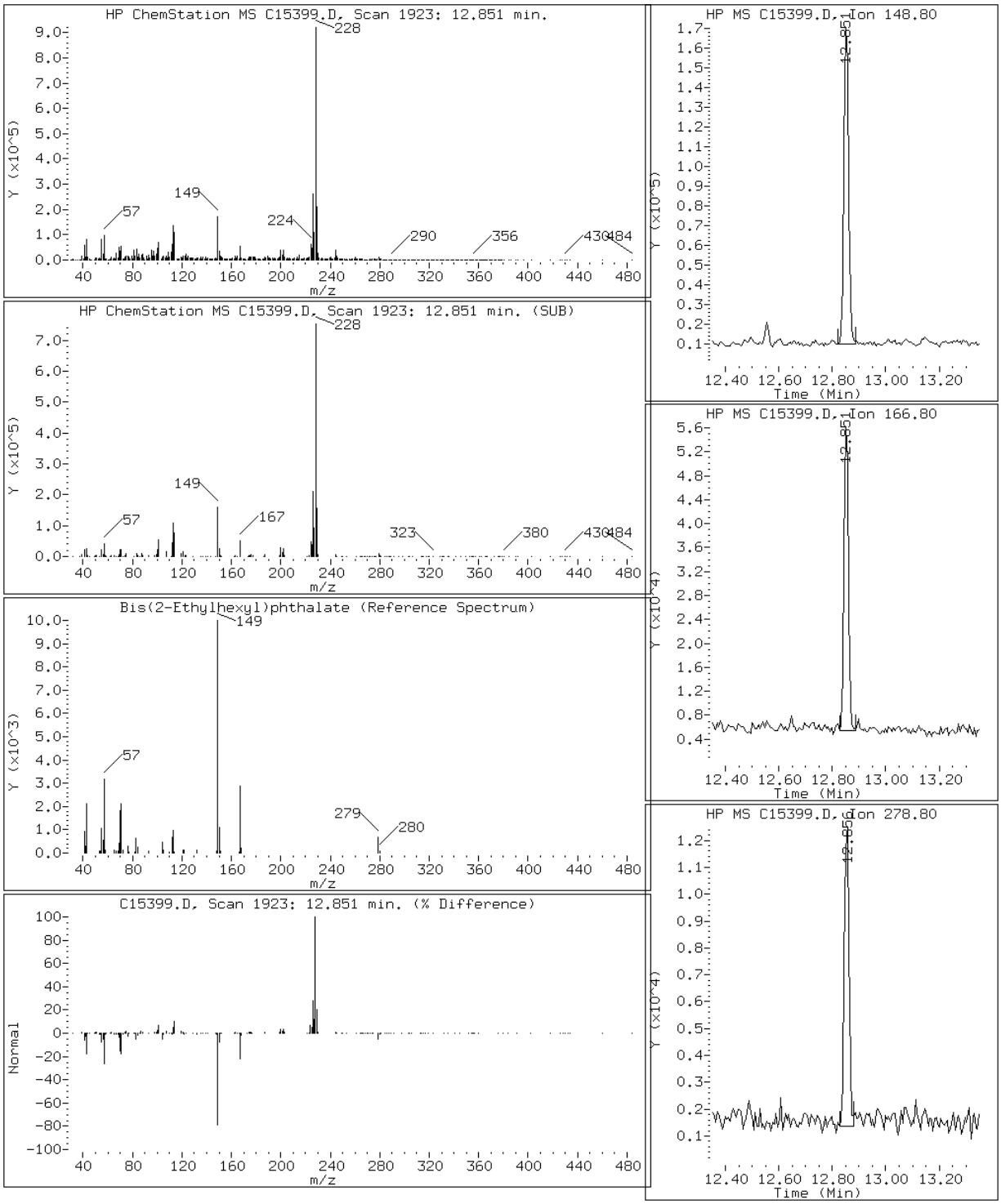
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



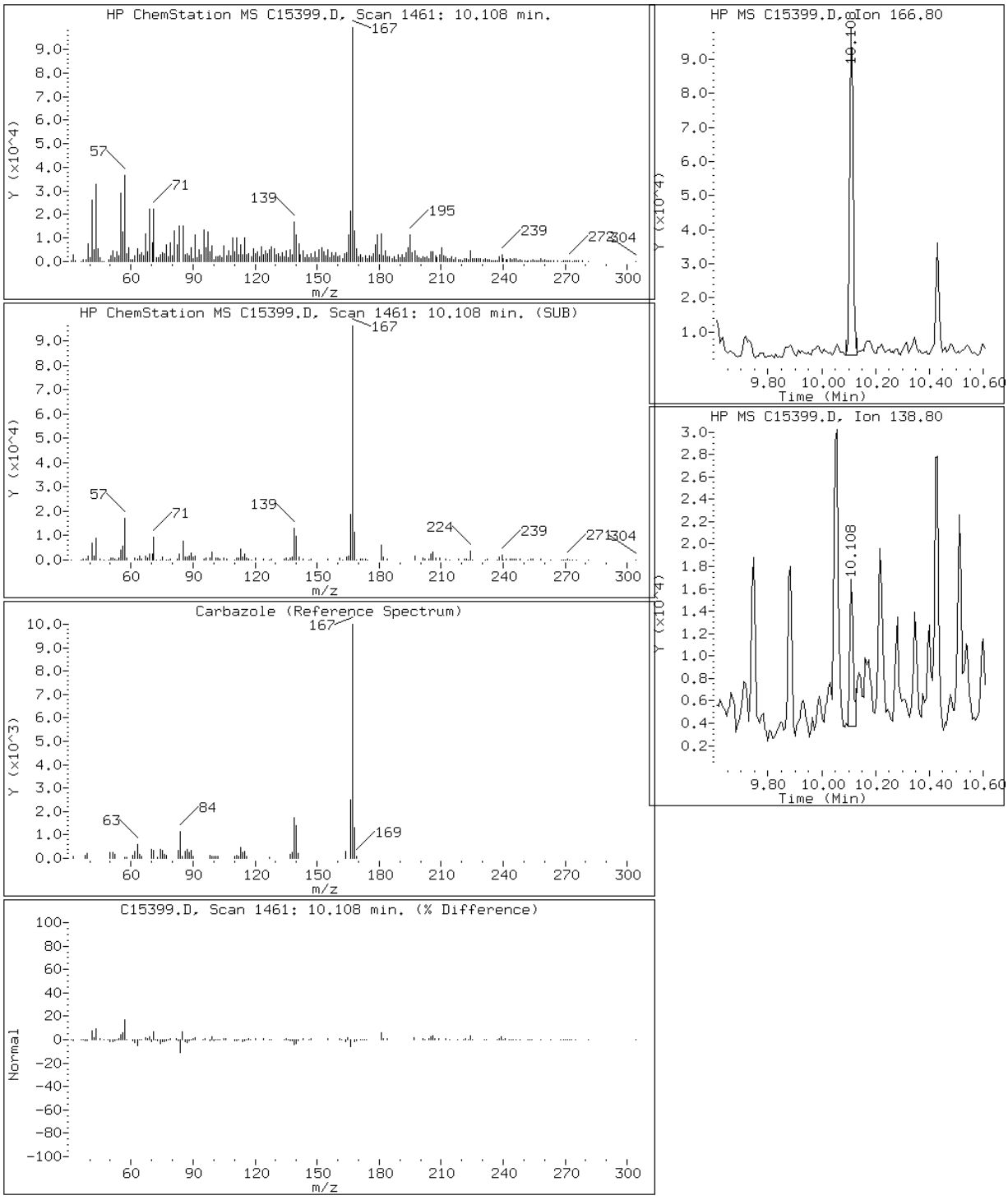
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

65 Carbazole



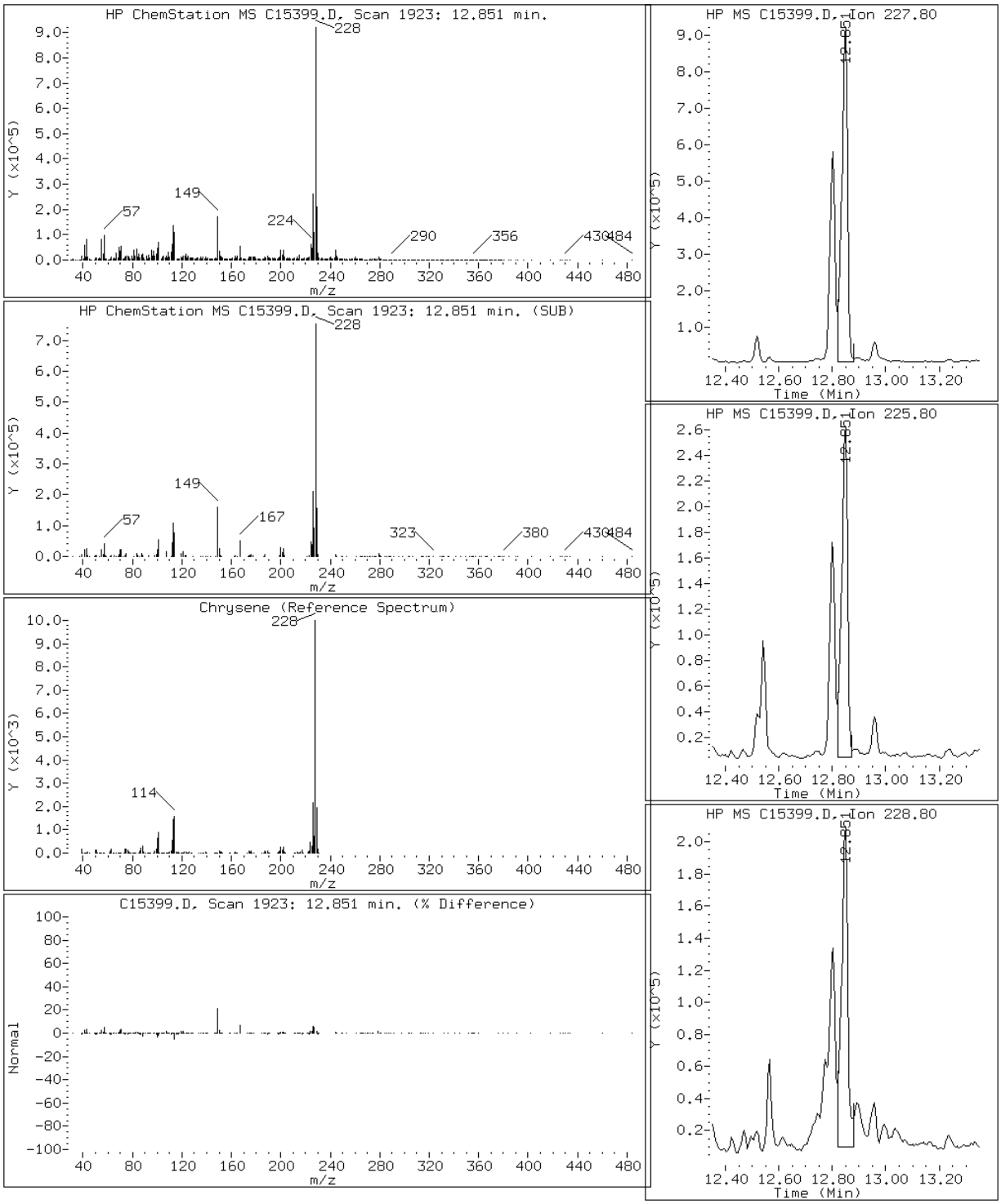
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

77 Chrysene



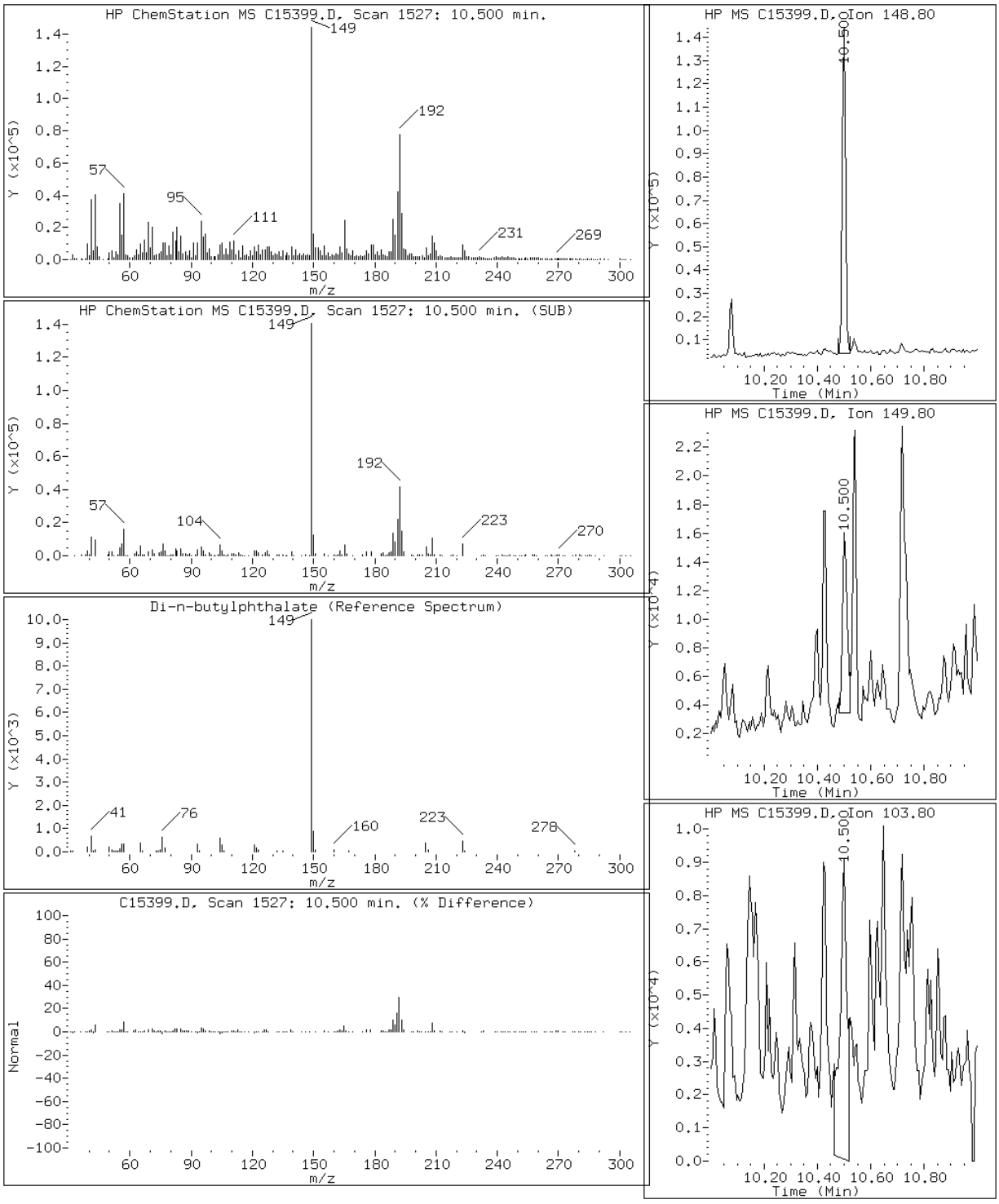
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

67 Di-n-butylphthalate



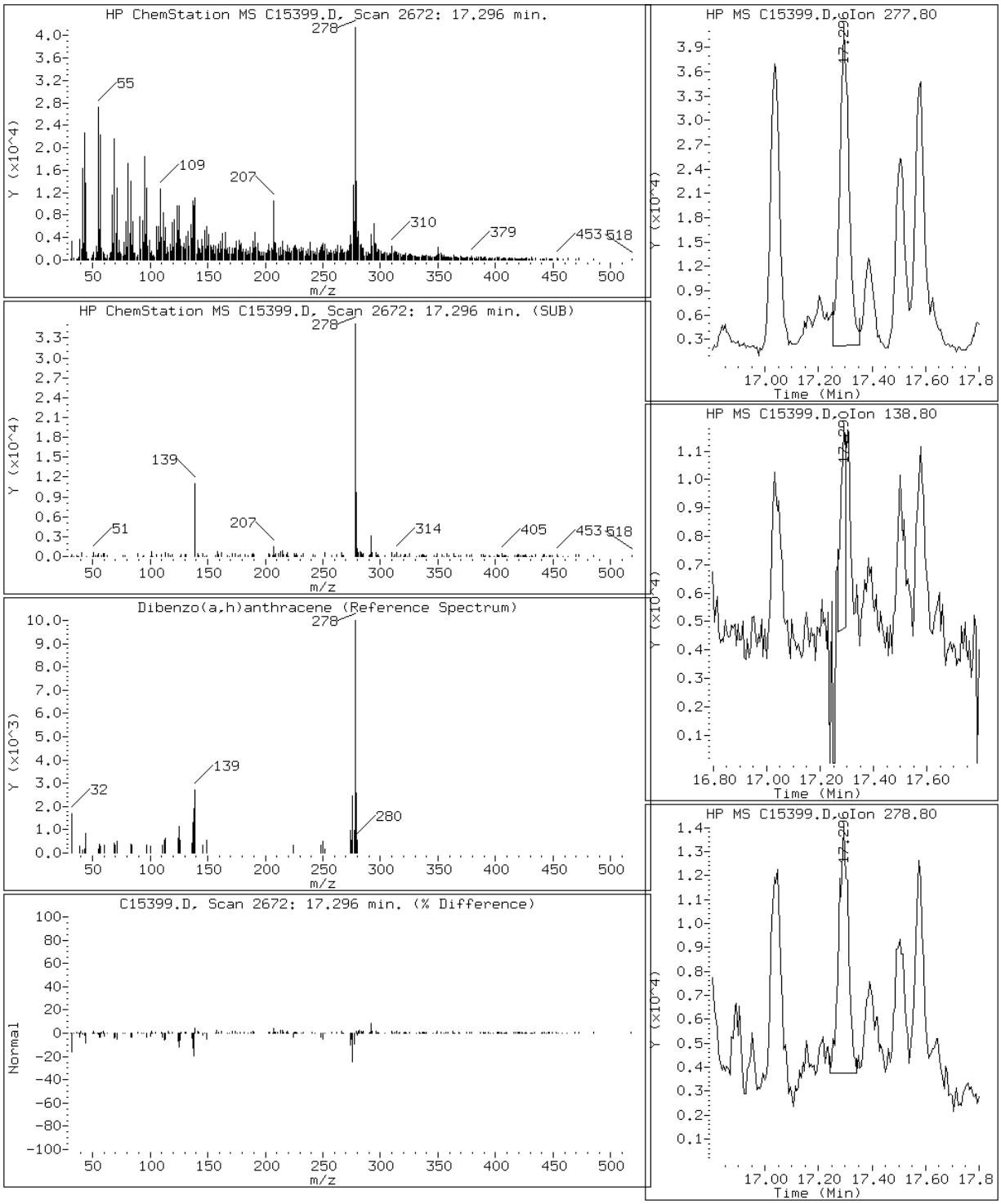
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

85 Dibenzo(a,h)anthracene



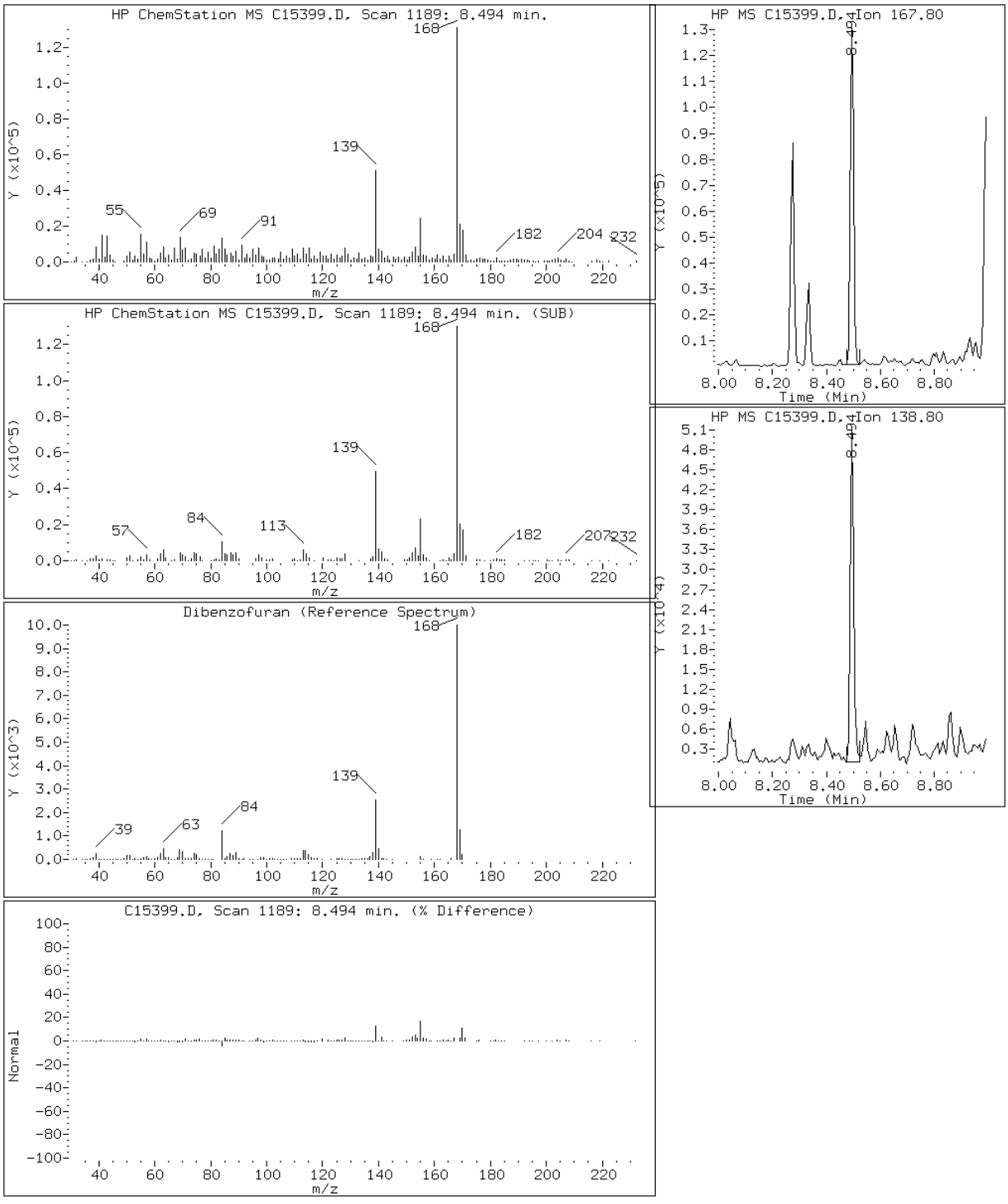
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

49 Dibenzofuran



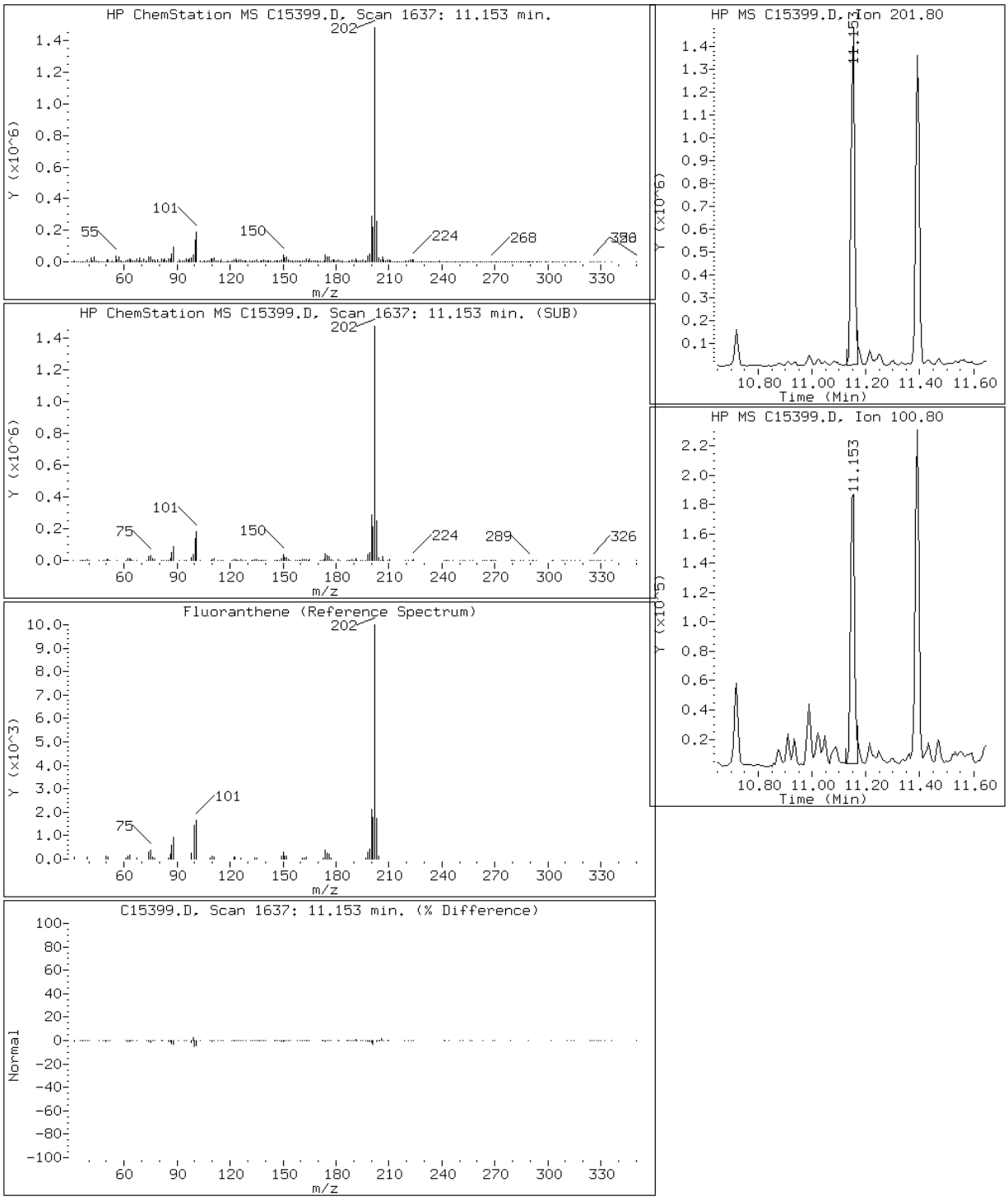
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

68 Fluoranthene



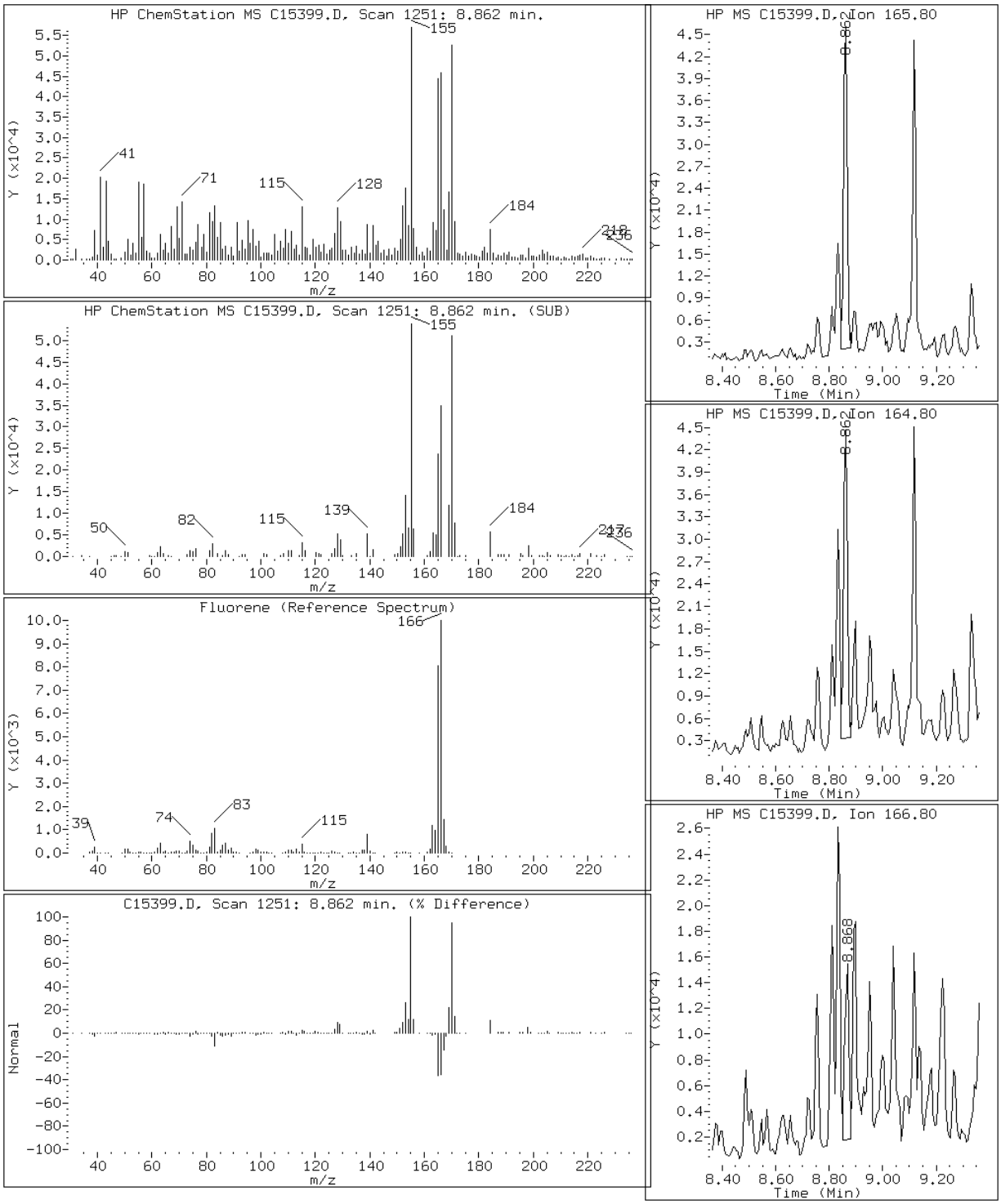
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

52 Fluorene



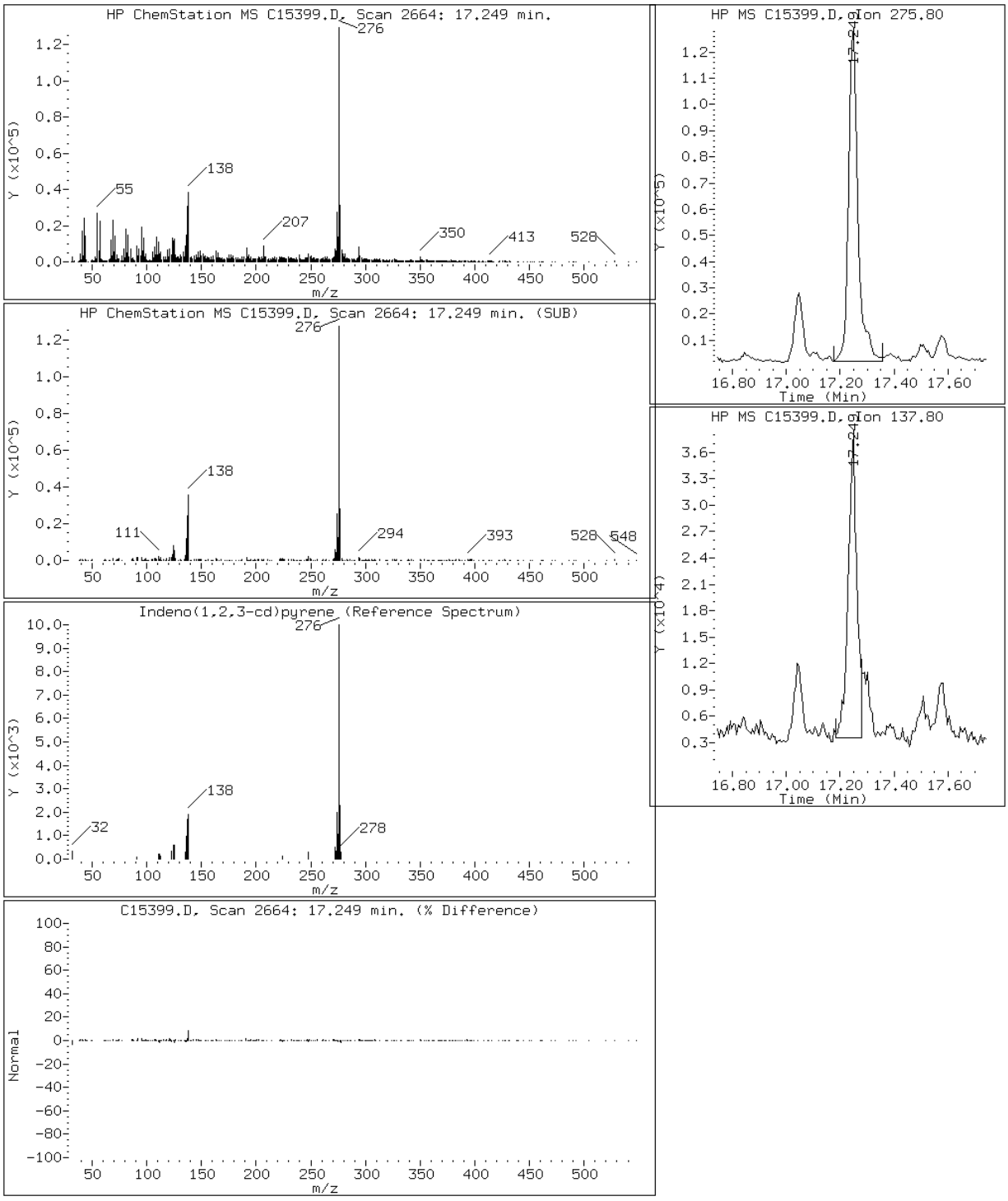
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



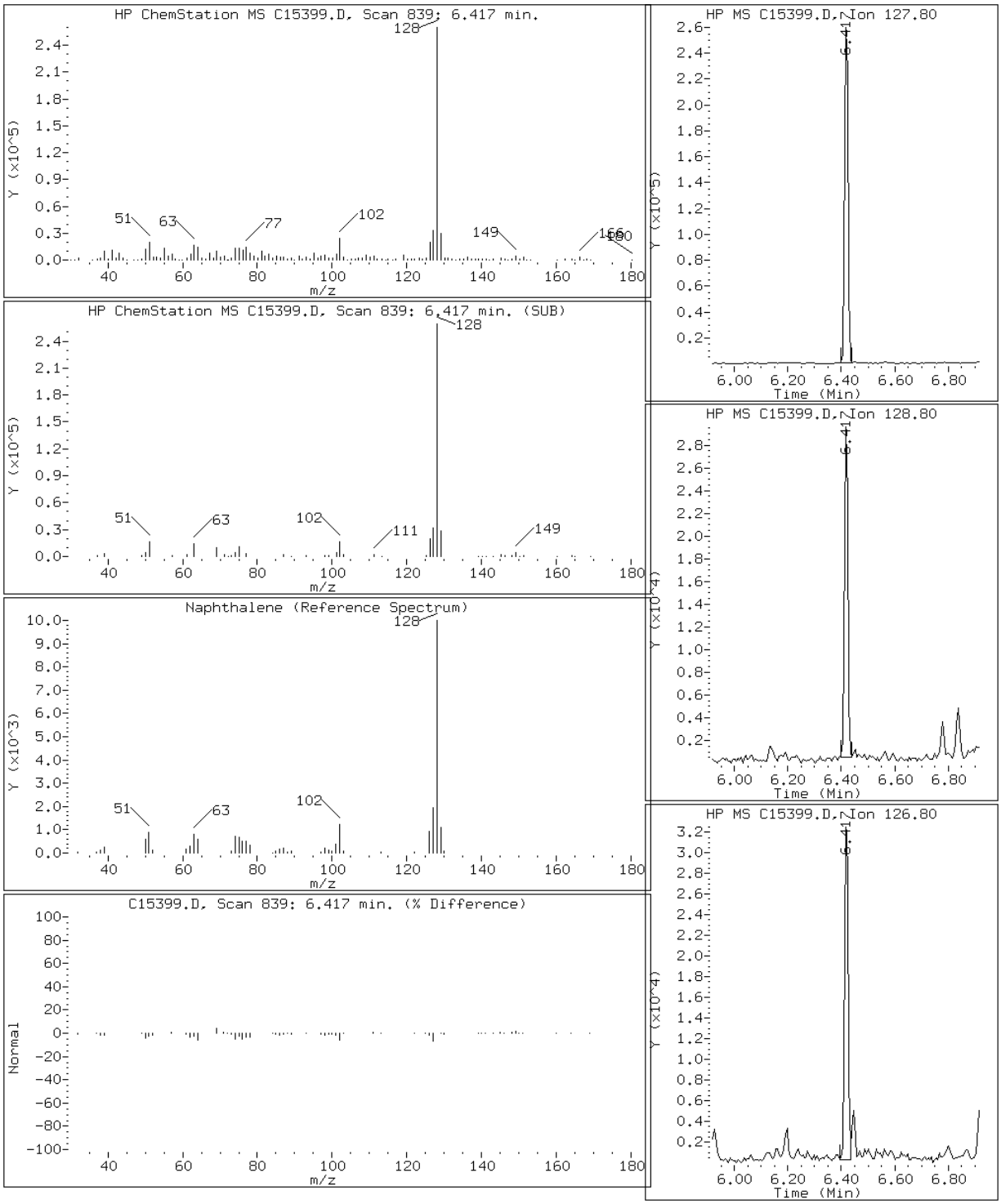
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

30 Naphthalene



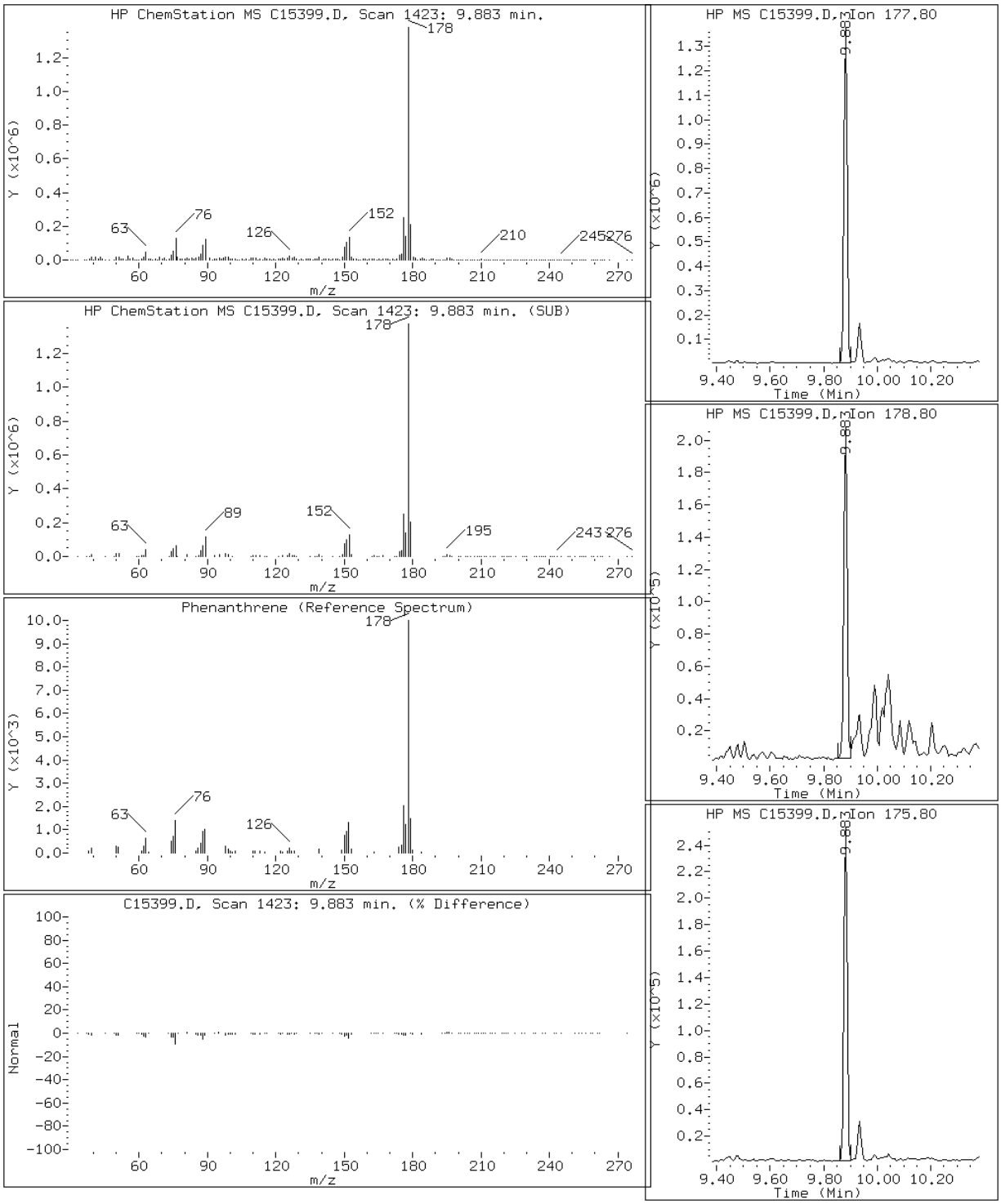
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

64 Phenanthrene



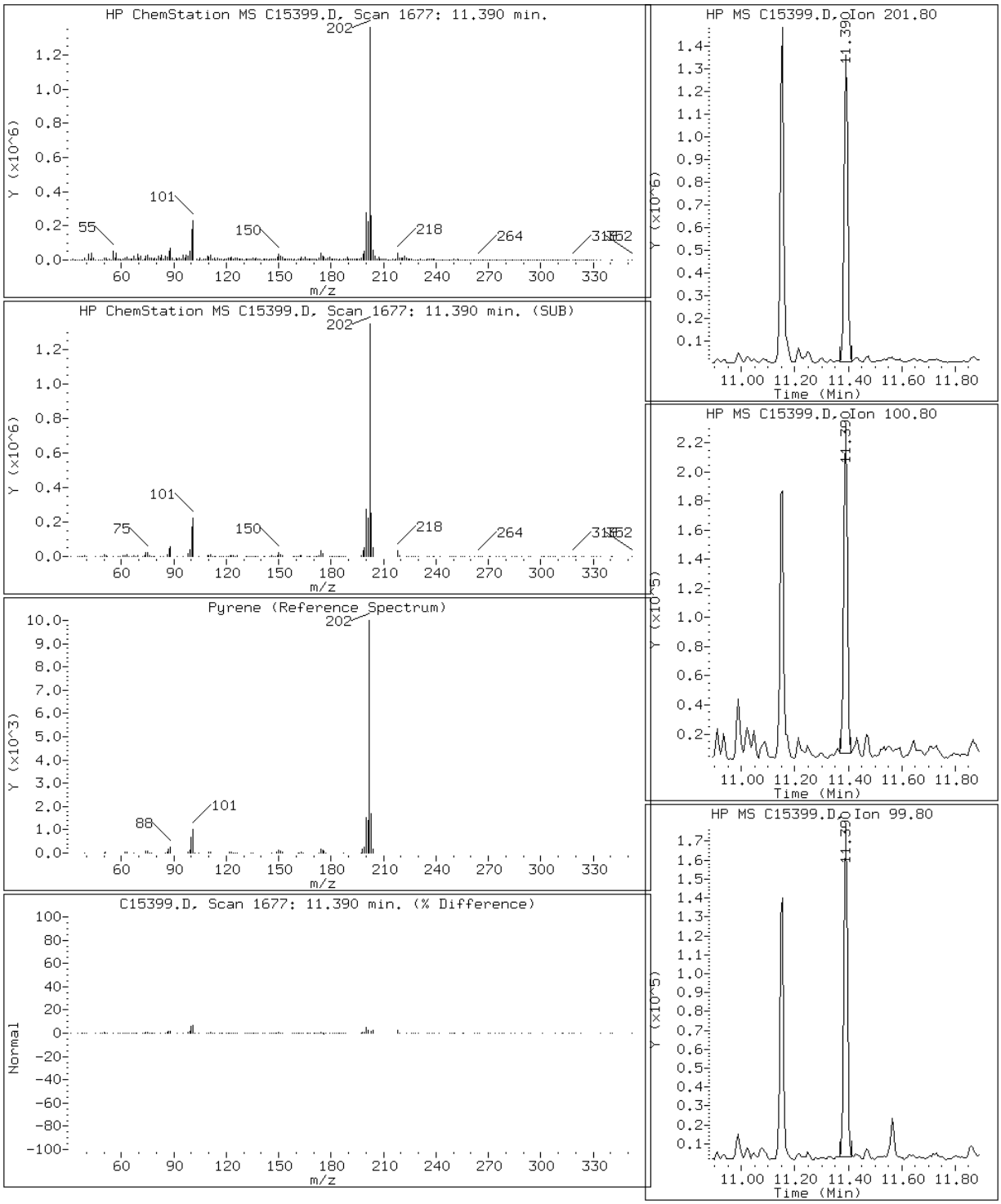
Data File: C15399.D

Date: 22-DEC-2009 16:13

Client ID: PBL-2-60-E(4') Instrument: msc.i

Sample Info: 220-11066-A-8-B Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') F.D. | Lab Sample ID: 220-11066-9

Matrix: Solid | Lab File ID: C15400.D

Analysis Method: 8270C | Date Collected: 12/15/2009 11:20

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.08(g) | Date Analyzed: 12/22/2009 16:43

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	66	J	350	23
95-95-4	2,4,5-Trichlorophenol	2200	U	2200	18
88-06-2	2,4,6-Trichlorophenol	350	U	350	9.6
120-83-2	2,4-Dichlorophenol	350	U	350	19
105-67-9	2,4-Dimethylphenol	350	U	350	17
121-14-2	2,4-Dinitrotoluene	350	U	350	28
51-28-5	2,4-Dinitrophenol	2200	U	2200	110
606-20-2	2,6-Dinitrotoluene	350	U	350	10
91-58-7	2-Chloronaphthalene	350	U	350	15
95-57-8	2-Chlorophenol	350	U	350	20
91-57-6	2-Methylnaphthalene	200	J	350	10
95-48-7	2-Methylphenol	350	U	350	21
88-74-4	2-Nitroaniline	870	U	870	21
88-75-5	2-Nitrophenol	350	U	350	22
91-94-1	3,3'-Dichlorobenzidine	430	U	430	72
99-09-2	3-Nitroaniline	870	U	870	11
534-52-1	4,6-Dinitro-2-methylphenol	2200	U	2200	150
101-55-3	4-Bromophenyl phenyl ether	350	U	350	23
59-50-7	4-Chloro-3-methylphenol	350	U	350	14
106-47-8	4-Chloroaniline	350	U	350	57
7005-72-3	4-Chlorophenyl phenyl ether	350	U	350	26
106-44-5	4-Methylphenol	350	U	350	23
100-01-6	4-Nitroaniline	350	U	350	27
100-02-7	4-Nitrophenol	2200	U	2200	26
83-32-9	Acenaphthene	57	J	350	21
208-96-8	Acenaphthylene	21	J	350	17
98-86-2	Acetophenone	350	U	350	18
120-12-7	Anthracene	100	J	350	14
1912-24-9	Atrazine	430	U	430	22
100-52-7	Benzaldehyde	480		350	58
56-55-3	Benzo[a]anthracene	590		350	12
50-32-8	Benzo[a]pyrene	490		350	9.5
205-99-2	Benzo[b]fluoranthene	900		350	9.3
191-24-2	Benzo[g,h,i]perylene	350	J	350	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') F.D. | Lab Sample ID: 220-11066-9

Matrix: Solid | Lab File ID: C15400.D

Analysis Method: 8270C | Date Collected: 12/15/2009 11:20

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.08(g) | Date Analyzed: 12/22/2009 16:43

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	330	J	350	31
111-91-1	Bis(2-chloroethoxy)methane	350	U	350	16
111-44-4	Bis(2-chloroethyl)ether	350	U	350	18
117-81-7	Bis(2-ethylhexyl) phthalate	120	J B	350	34
85-68-7	Butyl benzyl phthalate	26	J	350	20
105-60-2	Caprolactam	350	U	350	28
86-74-8	Carbazole	54	J	350	19
218-01-9	Chrysene	900		350	26
84-74-2	Di-n-butyl phthalate	350	U	350	51
117-84-0	Di-n-octyl phthalate	30	J	350	20
53-70-3	Dibenz(a,h)anthracene	120	J	350	28
132-64-9	Dibenzofuran	79	J	350	25
84-66-2	Diethyl phthalate	350	U	350	35
131-11-3	Dimethyl phthalate	350	U	350	20
206-44-0	Fluoranthene	840		350	17
86-73-7	Fluorene	46	J	350	21
118-74-1	Hexachlorobenzene	350	U	350	24
87-68-3	Hexachlorobutadiene	350	U	350	27
77-47-4	Hexachlorocyclopentadiene	870	U	870	160
67-72-1	Hexachloroethane	350	U	350	20
193-39-5	Indeno[1,2,3-cd]pyrene	400		350	23
78-59-1	Isophorone	350	U	350	19
621-64-7	N-Nitrosodi-n-propylamine	350	U	350	24
86-30-6	N-Nitrosodiphenylamine	350	U	350	20
91-20-3	Naphthalene	150	J	350	18
98-95-3	Nitrobenzene	350	U	350	22
87-86-5	Pentachlorophenol	870	U	870	210
85-01-8	Phenanthrene	710		350	17
108-95-2	Phenol	350	U	350	23
129-00-0	Pyrene	780		350	16
108-60-1	2,2'-oxybis[1-chloropropane]	350	U	350	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-E(4') F.D. | Lab Sample ID: 220-11066-9

Matrix: Solid | Lab File ID: C15400.D

Analysis Method: 8270C | Date Collected: 12/15/2009 11:20

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.08(g) | Date Analyzed: 12/22/2009 16:43

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	55	37-120	
321-60-8	2-Fluorobiphenyl	54	41-120	
367-12-4	2-Fluorophenol	51	34-120	
4165-60-0	Nitrobenzene-d5	55	38-120	
4165-62-2	Phenol-d5	52	36-120	
1718-51-0	Terphenyl-d14	59	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15400.D
Lab Smp Id: 220-11066-A-9-B Client Smp ID: PBL-2-60-E(4') F.D.
Inj Date : 22-DEC-2009 16:43
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-9-B
Misc Info : 220-11066-A-9-B
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.080	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	23.361	% Moisture
Cpnd Variable		Local Compound Variable

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1	1,4-Dichlorobenzene-d4	152	5.027	5.021	(1.000)	404967	20.0000	
$	2	2-Fluorophenol	112	3.567	3.549	(0.710)	990991	38.5568	3300
$	3	Phenol-d5	99	4.677	4.671	(0.930)	1411317	39.2378	3400
	128	Benzaldehyde	77	4.540	4.534	(0.903)	16421	5.60006	480
*	20	Naphthalene-d8	136	6.398	6.398	(1.000)	1929669	20.0000	
$	21	Nitrobenzene-d5	82	5.627	5.627	(0.879)	976256	27.3317	2400
	26	Benzoic Acid	122	6.137	6.202	(0.959)	19723	5.74103	500
	30	Naphthalene	128	6.416	6.416	(1.003)	185939	1.77893	150
	34	2-Methylnaphthalene	142	7.164	7.164	(1.120)	166259	2.32957	200
*	35	Acenaphthene-d10	164	8.280	8.274	(1.000)	1422135	20.0000	
$	40	2-Fluorobiphenyl	172	7.567	7.567	(0.914)	2316477	26.9845	2300
	130	1,1'-Biphenyl	154	7.668	7.668	(0.926)	68628	0.75710	66
	43	Acenaphthylene	152	8.119	8.119	(0.981)	29947	0.23735	21
	46	Acenaphthene	153	8.309	8.309	(1.004)	50541	0.65981	57
	49	Dibenzofuran	168	8.493	8.493	(1.026)	103218	0.91540	79
	52	Fluorene	166	8.861	8.861	(1.070)	48887	0.52966	46
$	56	2,4,6-Tribromophenol	330	9.117	9.117	(1.101)	533462	41.1563	3600
*	57	Phenanthrene-d10	188	9.859	9.852	(1.000)	2411137	20.0000	

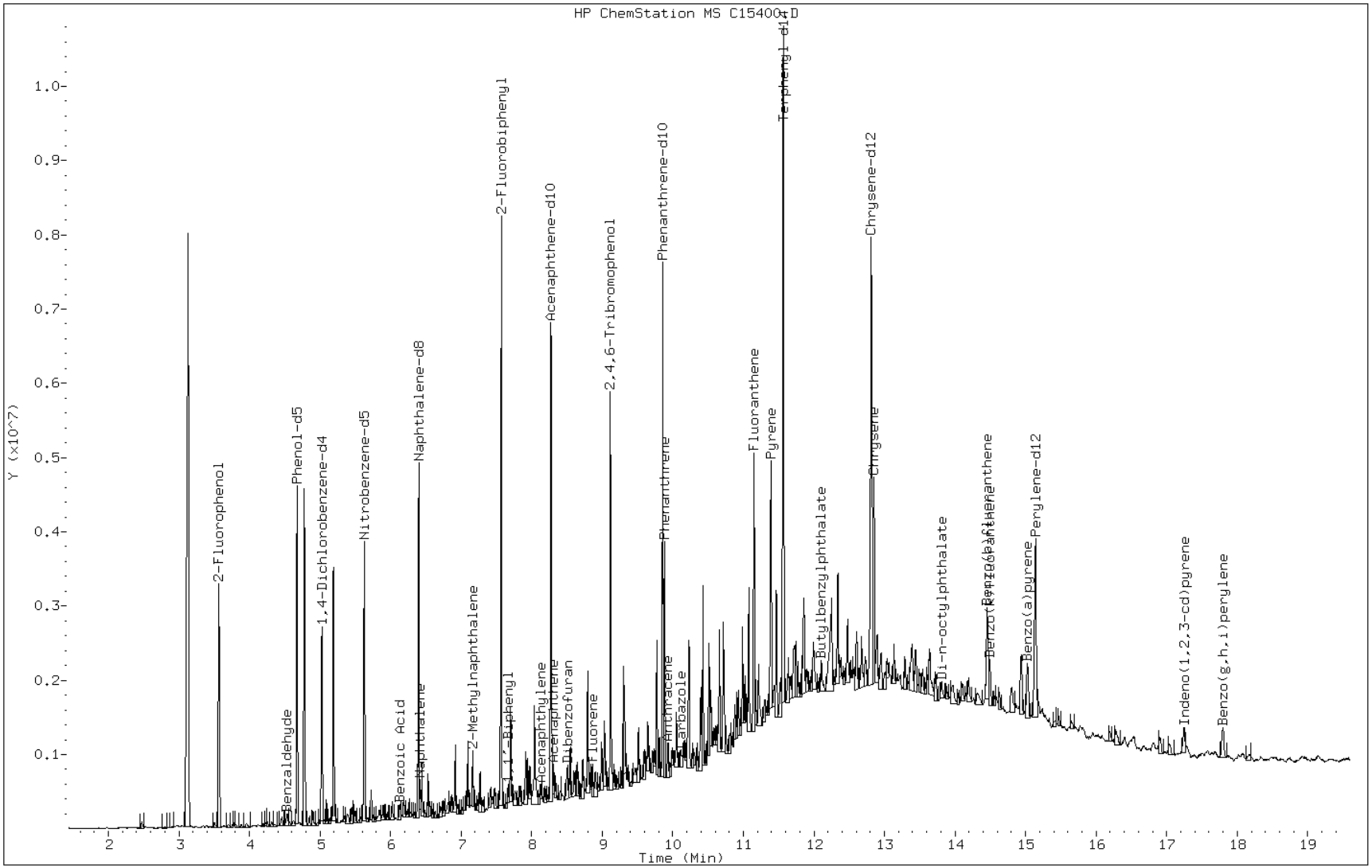
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
64	Phenanthrene	178	9.882	9.882	(1.002)	1122597	8.25485	710
65	Carbazole	167	10.108	10.108	(1.025)	84216	0.62259	54
66	Anthracene	178	9.936	9.936	(1.008)	166020	1.17546	100
68	Fluoranthene	202	11.152	11.146	(1.131)	1529363	9.75224	840
* 70	Chrysene-d12	240	12.814	12.808	(1.000)	2515479	20.0000	
72	Pyrene	202	11.390	11.390	(0.889)	1350208	9.00848	780
$ 73	Terphenyl-d14	244	11.568	11.562	(0.903)	3065558	29.2907	2500
74	Butylbenzylphthalate	149	12.108	12.108	(0.945)	21079	0.30369	26
76	Benzo(a)anthracene	228	12.802	12.796	(0.999)	963988	6.77591	590
77	Chrysene	228	12.850	12.850	(1.003)	1434211	10.4357	900
78	Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	134250	1.41786	120
* 79	Perylene-d12	264	15.141	15.129	(1.000)	1372013	20.0000	
80	Di-n-octylphthalate	149	13.841	13.829	(0.914)	38164	0.35184	30
81	Benzo(b)fluoranthene	252	14.458	14.452	(0.955)	987055	10.3967	900
82	Benzo(k)fluoranthene	252	14.494	14.500	(0.957)	394176	3.81362	330
83	Benzo(a)pyrene	252	15.028	15.028	(0.993)	453846	5.61001	490
84	Indeno(1,2,3-cd)pyrene	276	17.248	17.242	(1.139)	327246	4.60928	400
85	Dibenzo(a,h)anthracene	278	17.295	17.301	(1.142)	105899	1.40396	120
86	Benzo(g,h,i)perylene	276	17.800	17.794	(1.176)	309457	4.00485	350

Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas



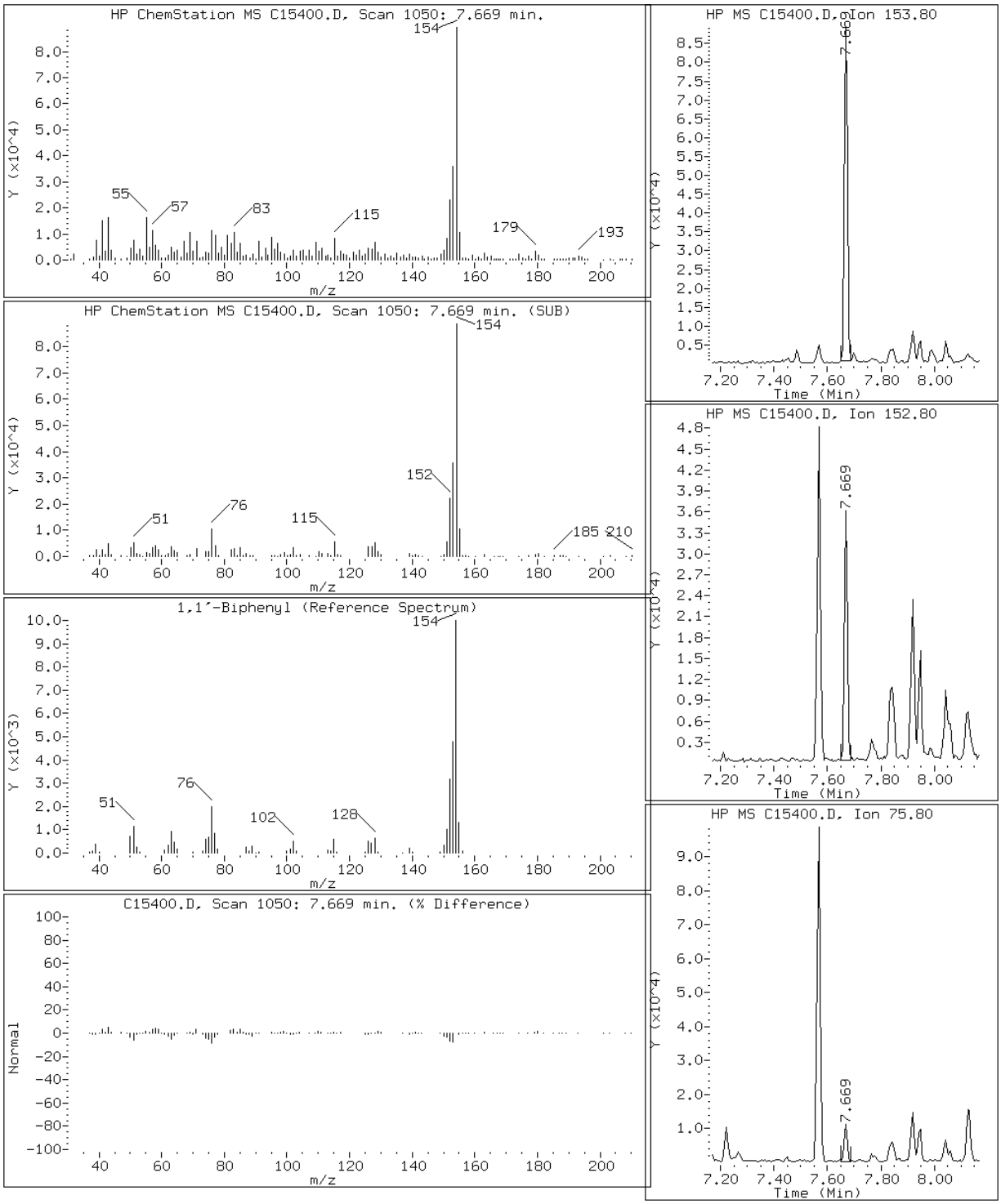
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

130 1,1'-Biphenyl



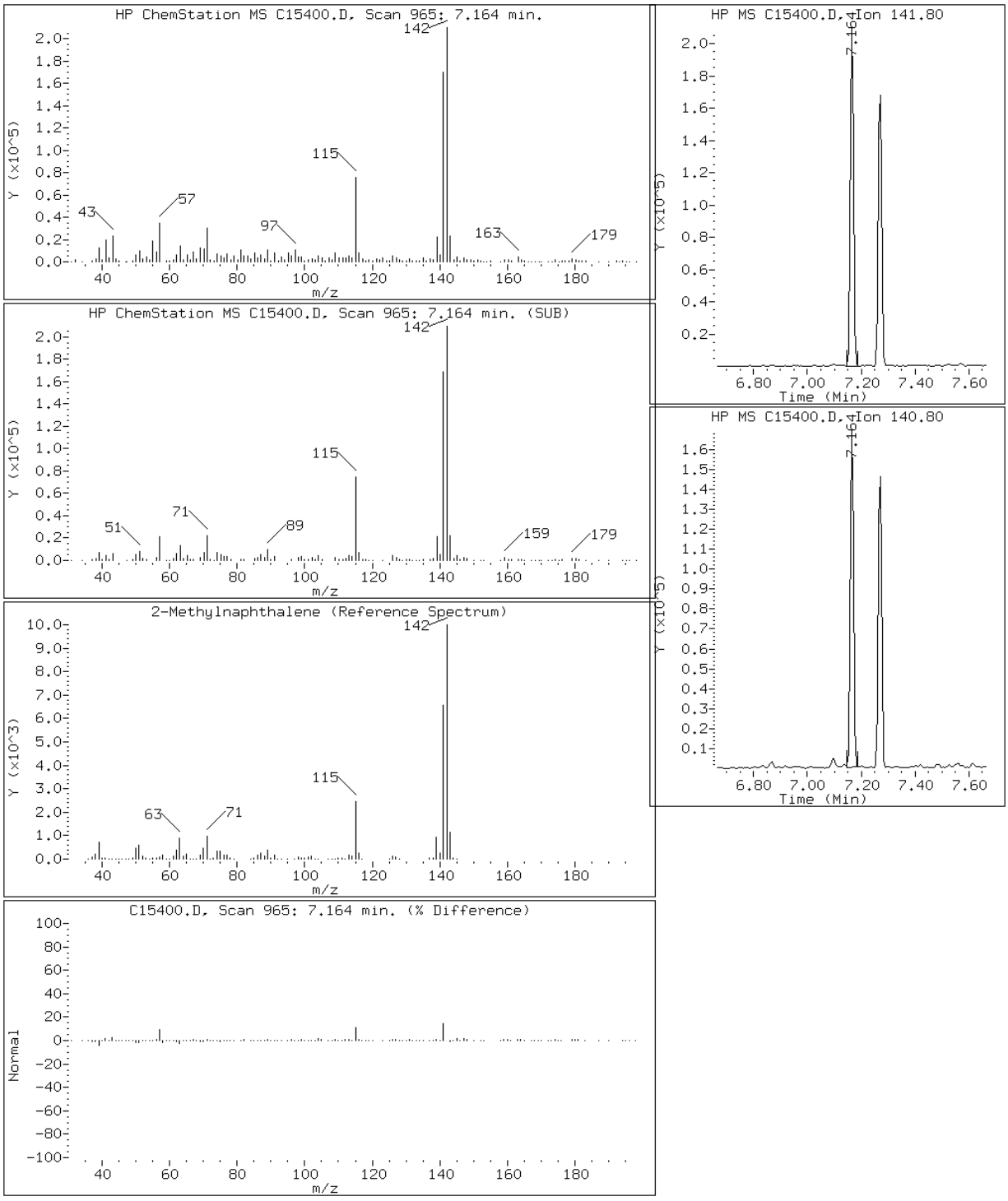
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

34 2-Methylnaphthalene



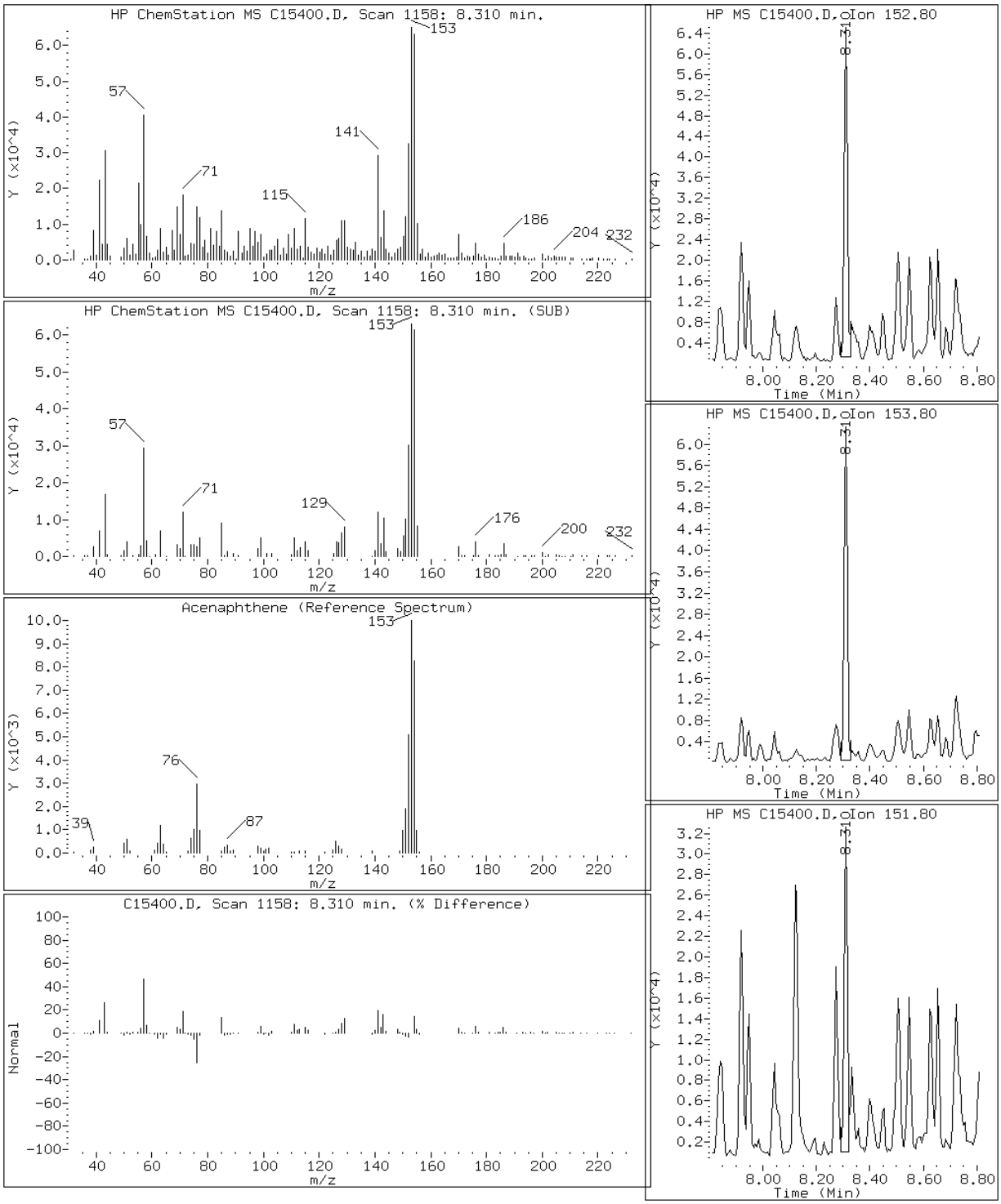
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

46 Acenaphthene



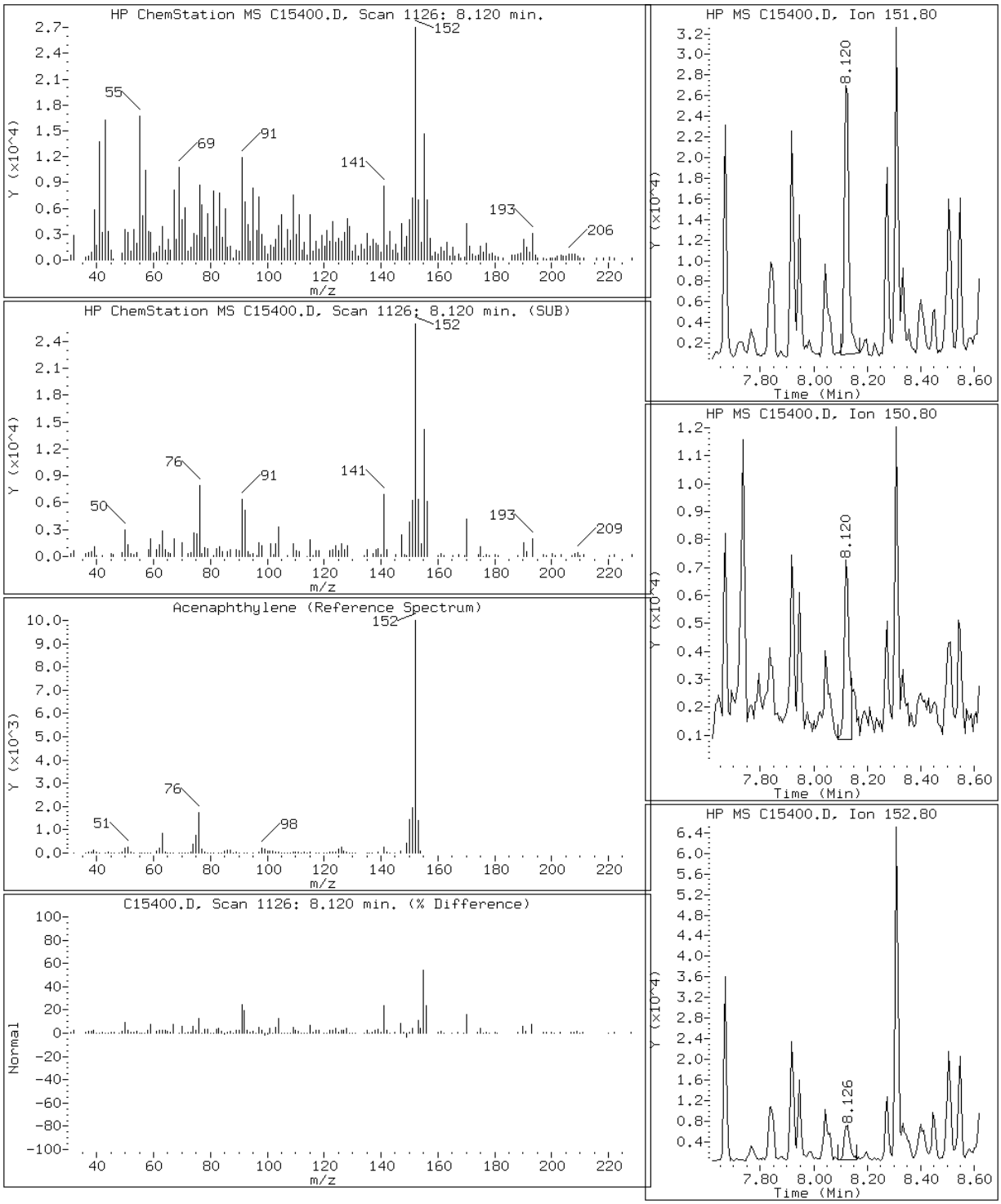
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

43 Acenaphthylene



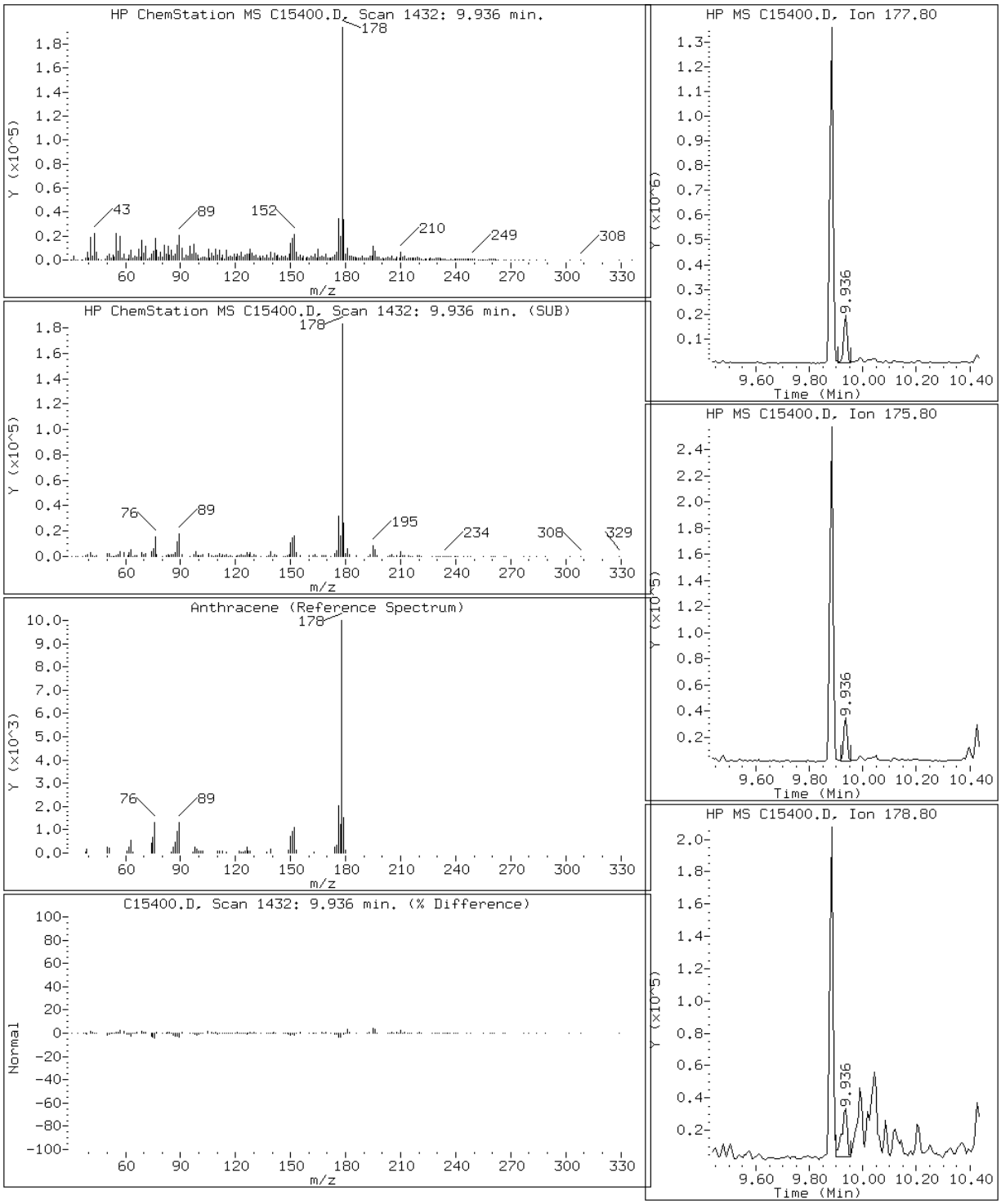
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

66 Anthracene



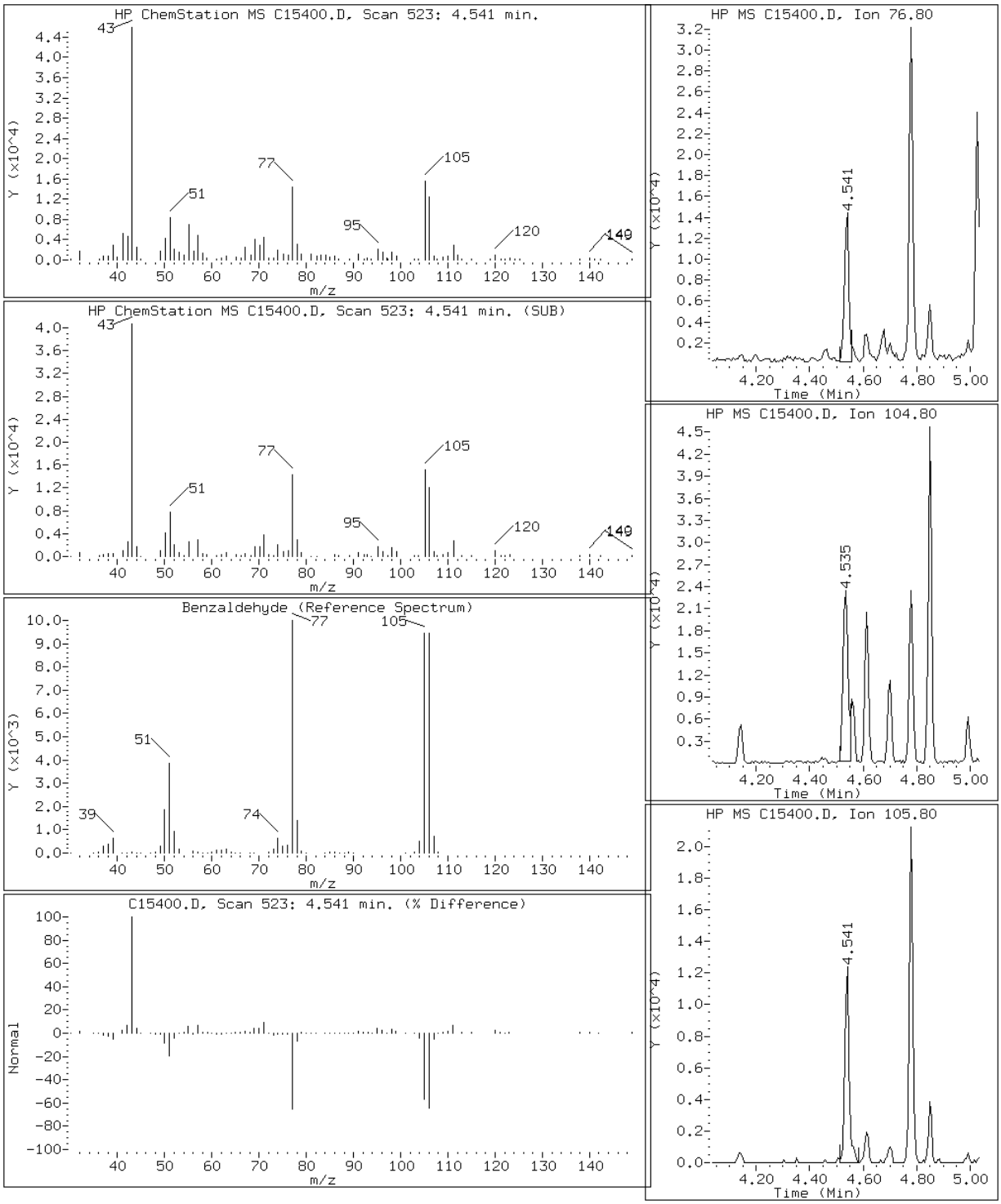
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

128 Benzaldehyde



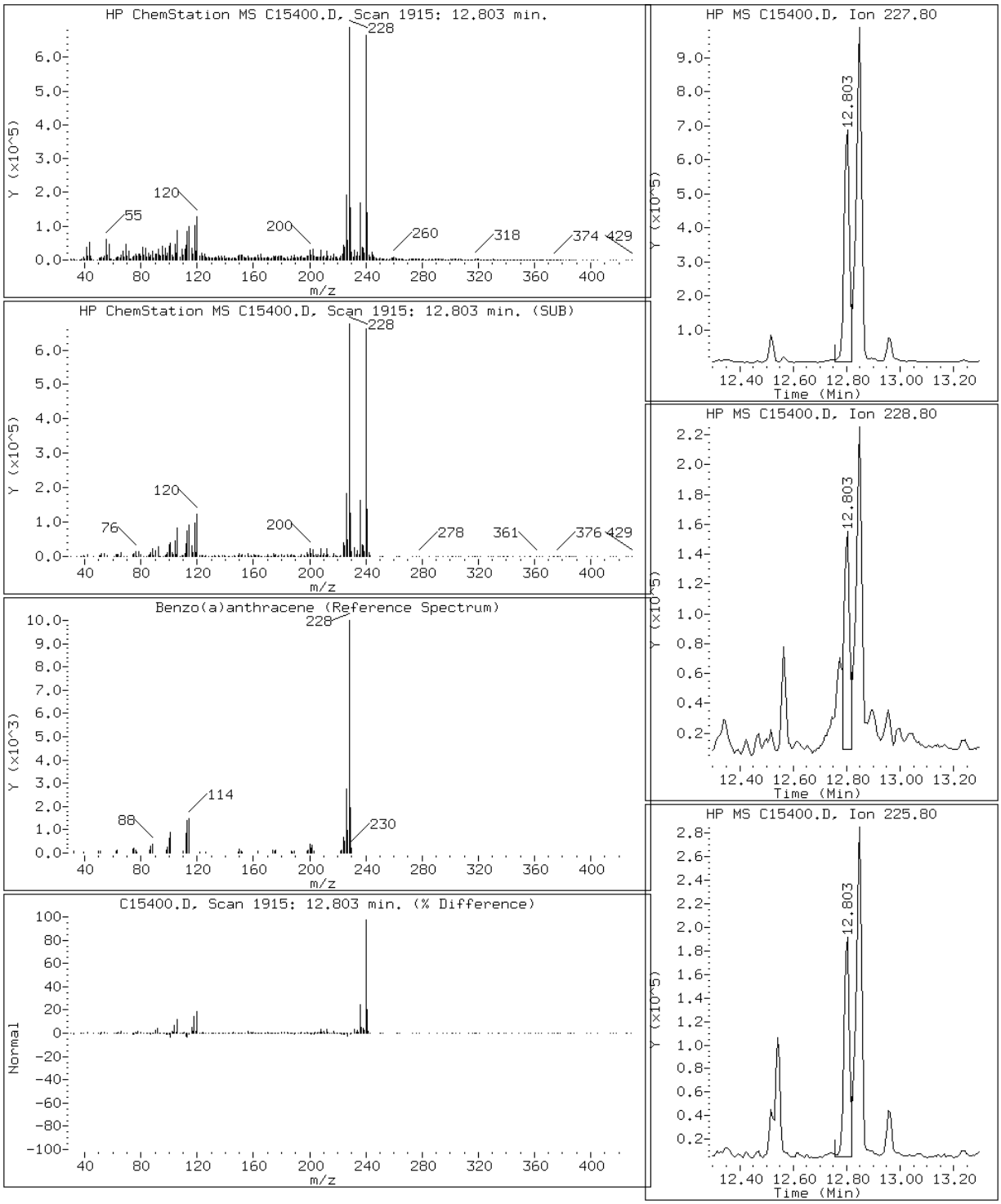
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

76 Benzo(a)anthracene



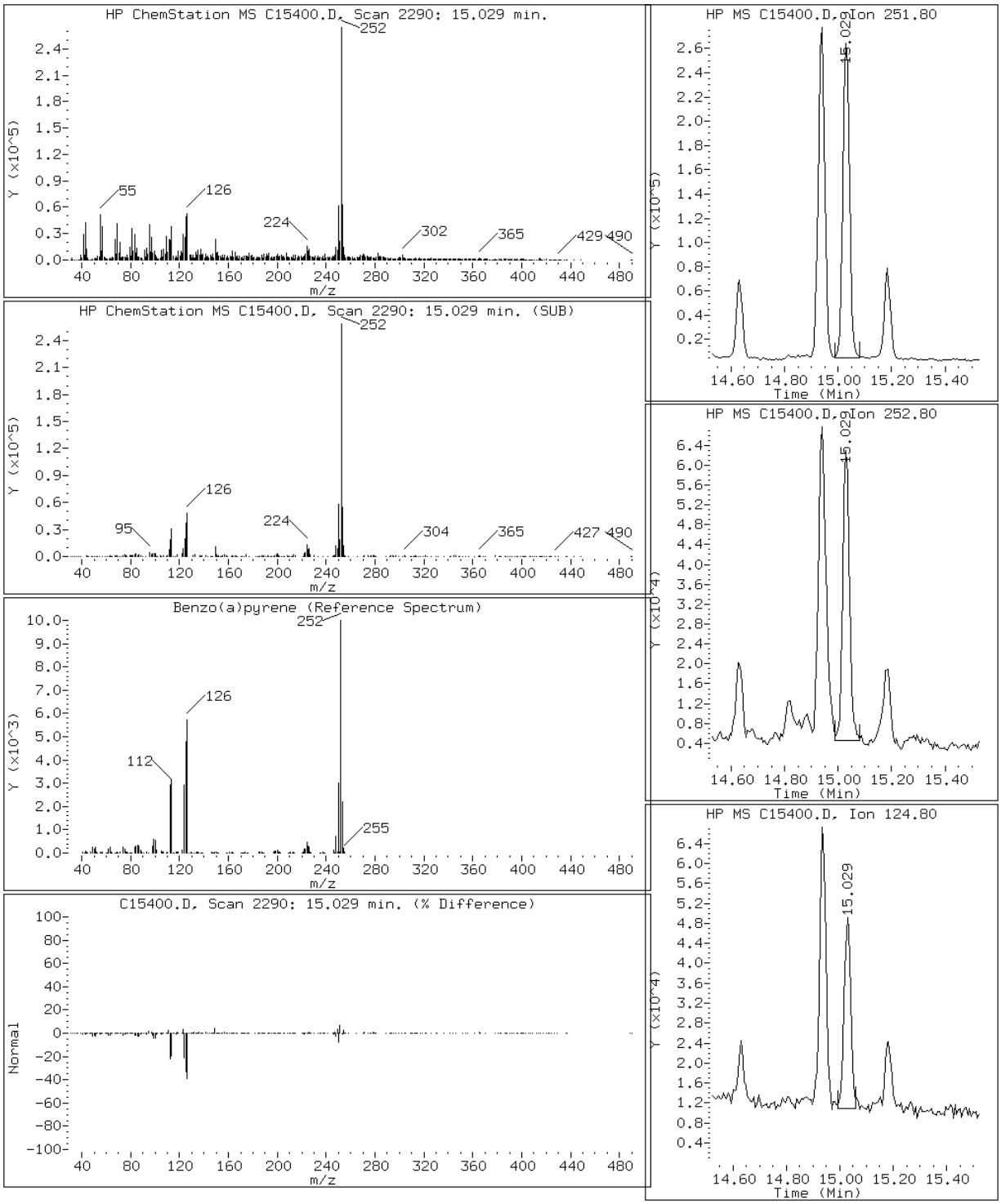
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

83 Benzo(a)pyrene



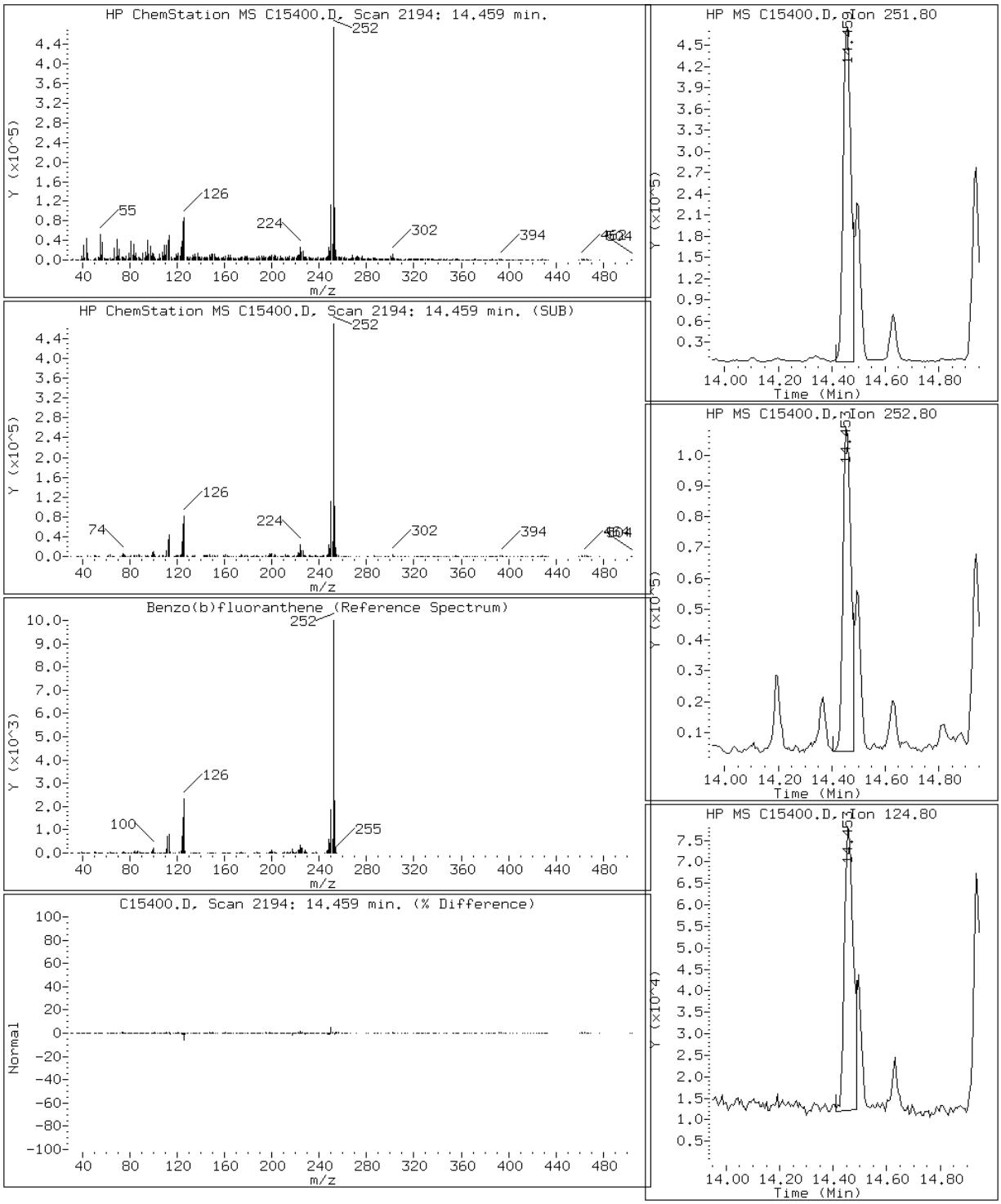
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

81 Benzo(b)fluoranthene



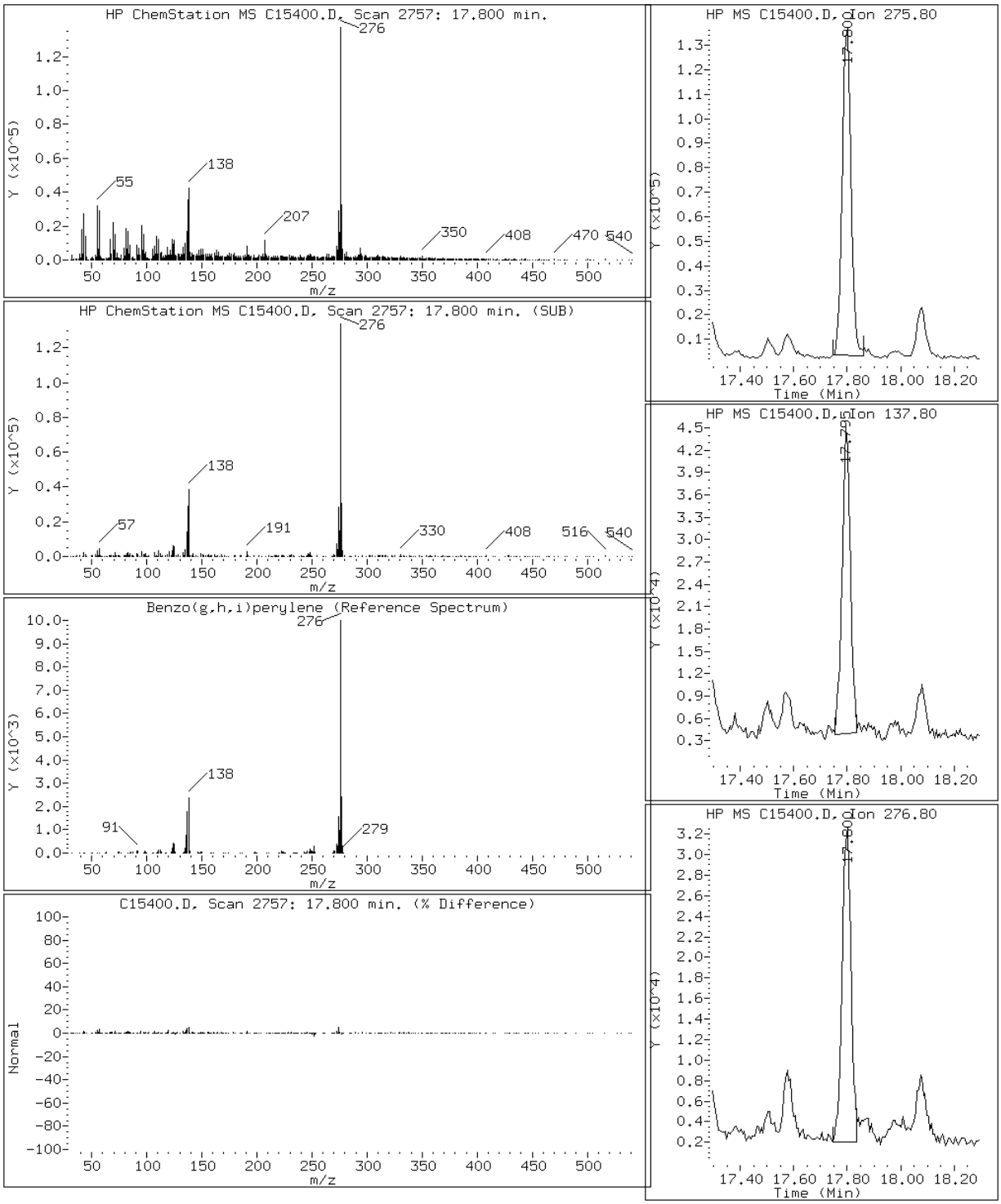
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

86 Benzo(g,h,i)perylene



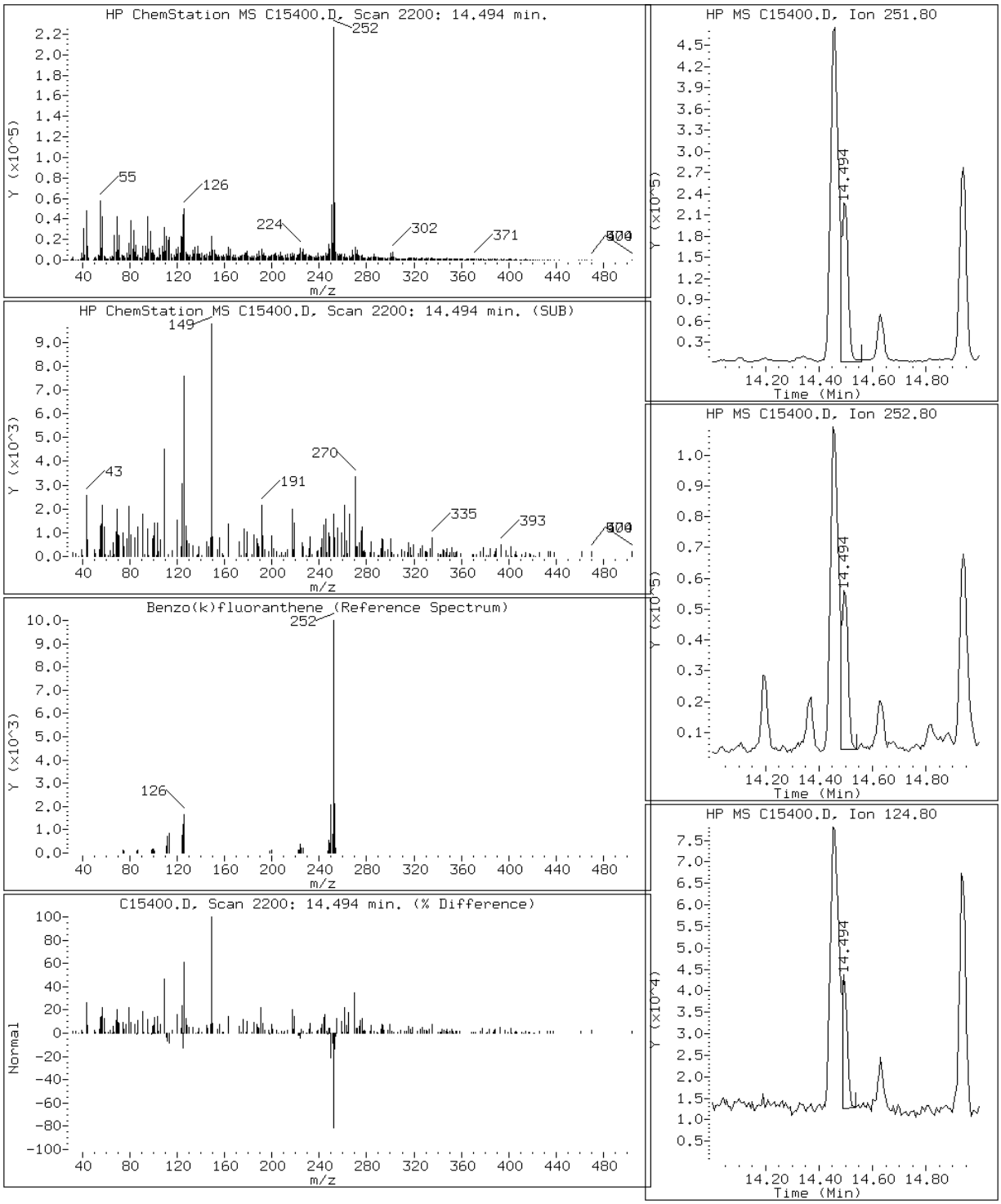
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

82 Benzo(k)fluoranthene



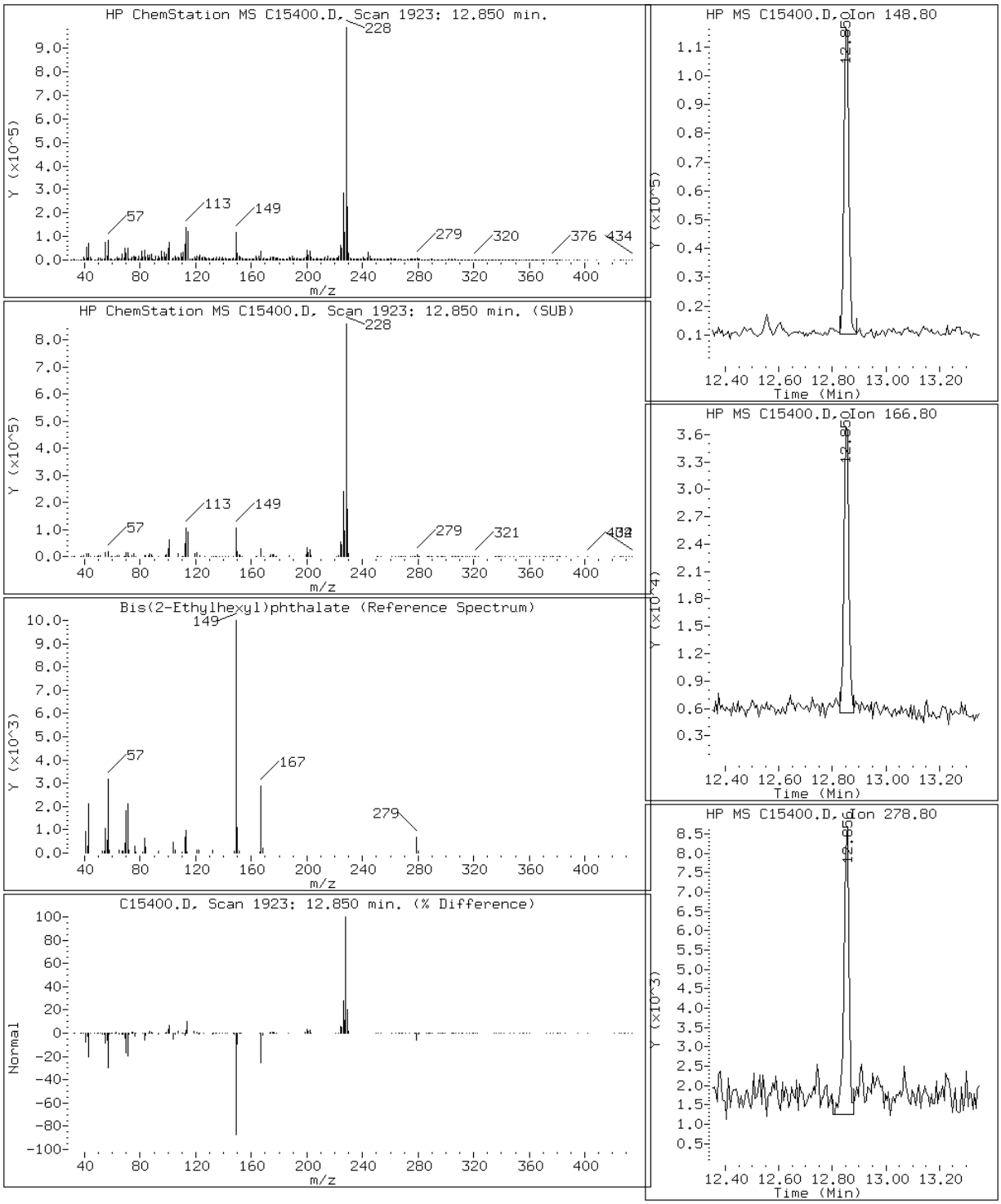
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



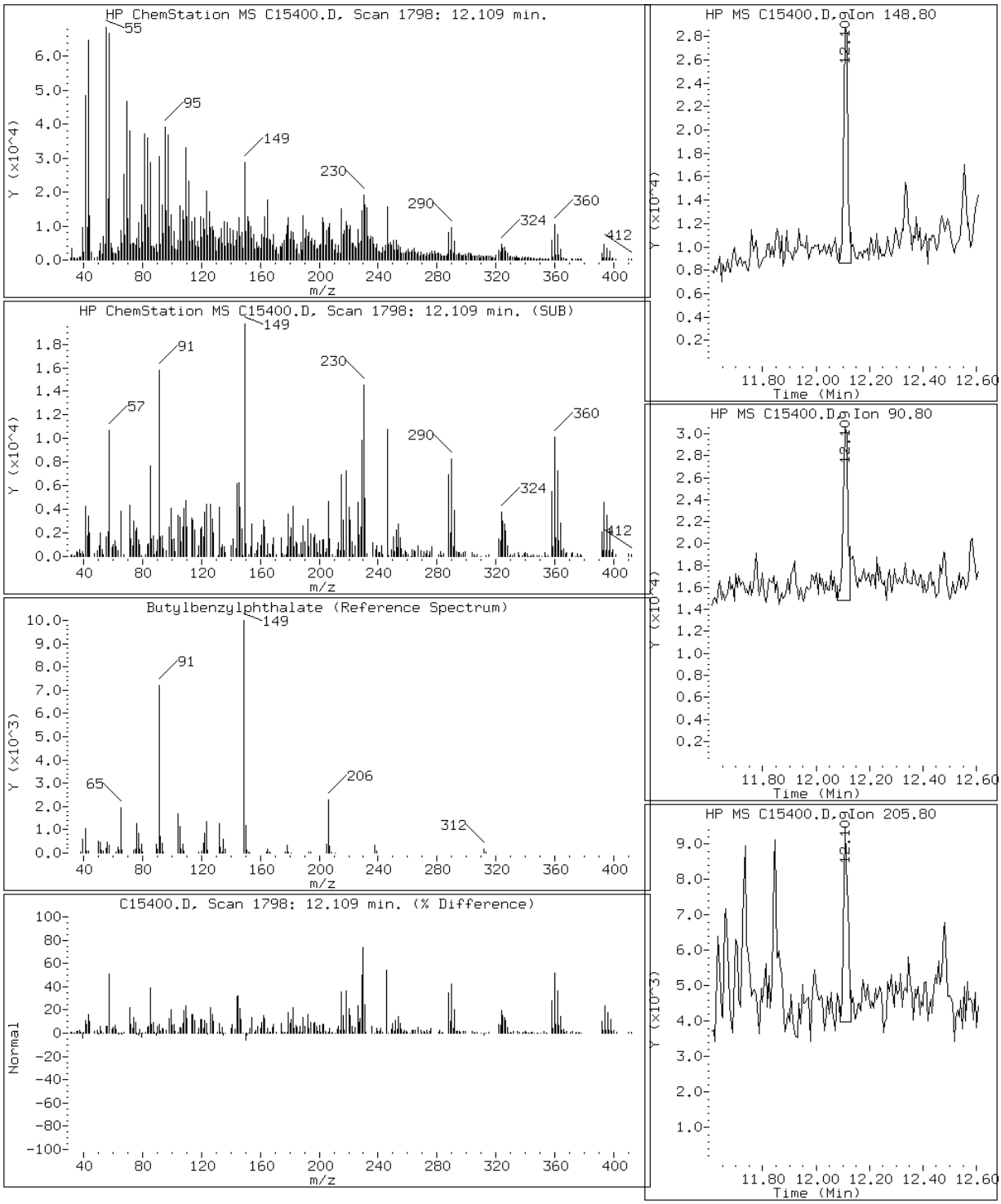
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

74 Butylbenzylphthalate



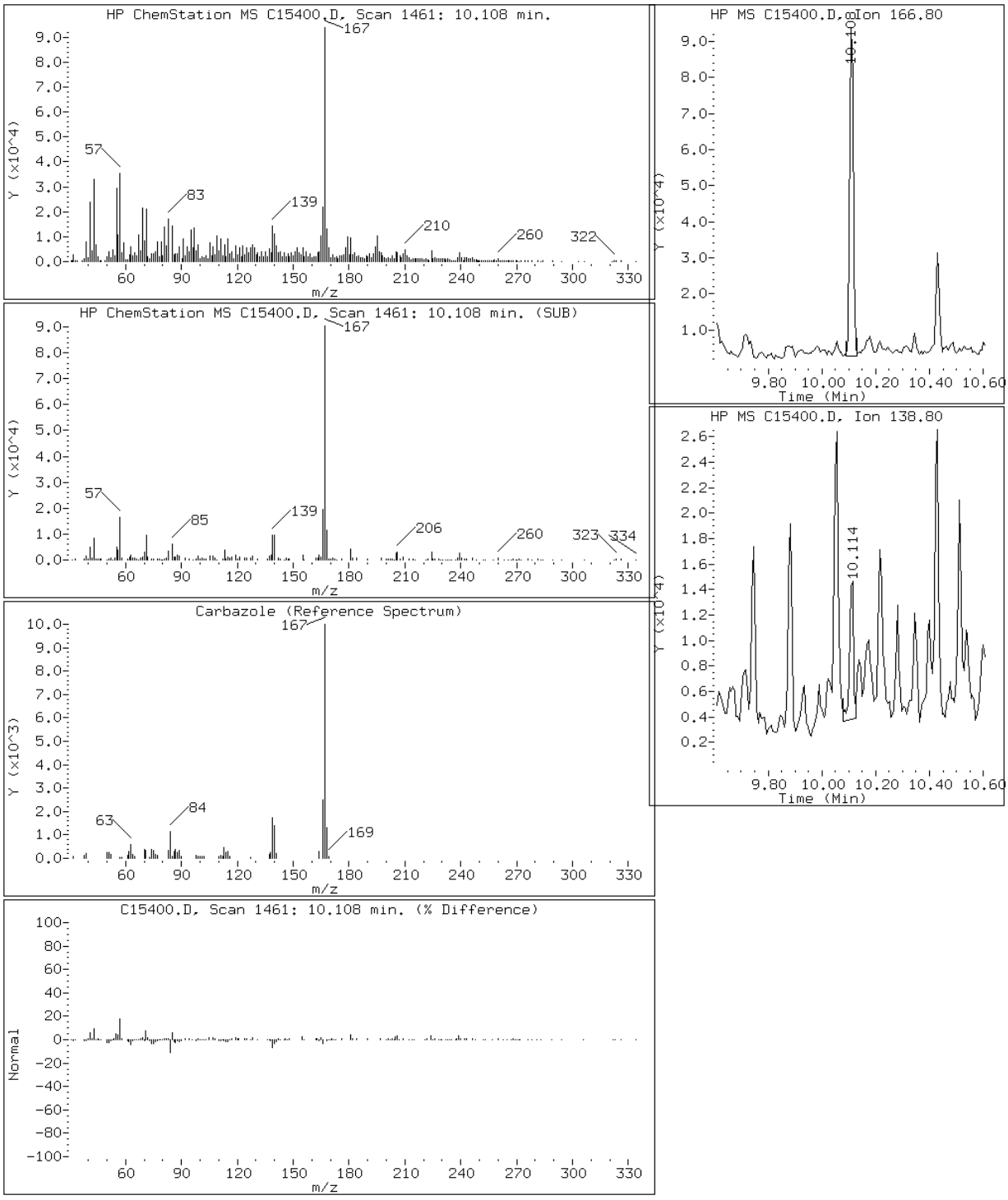
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

65 Carbazole



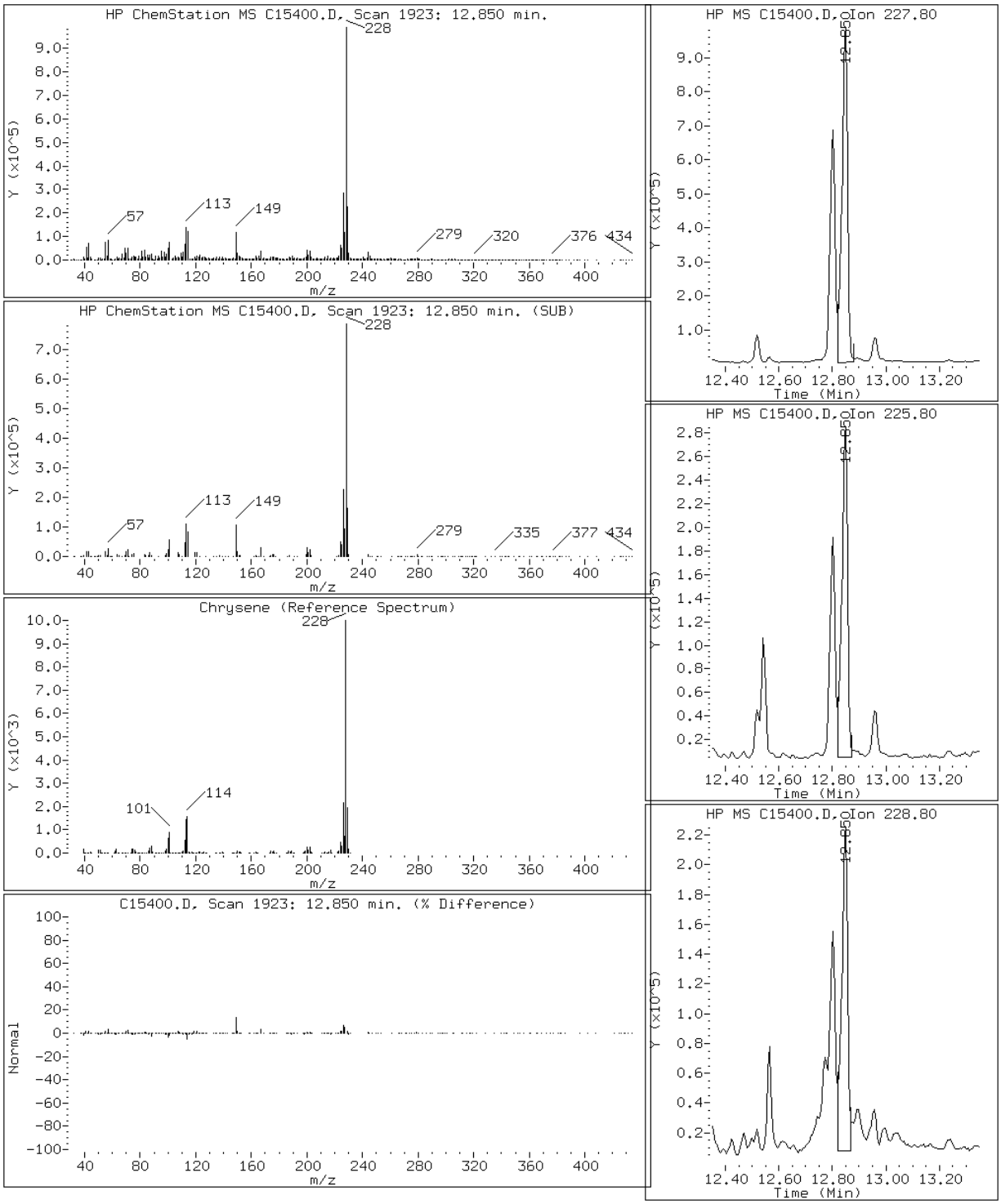
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

77 Chrysene



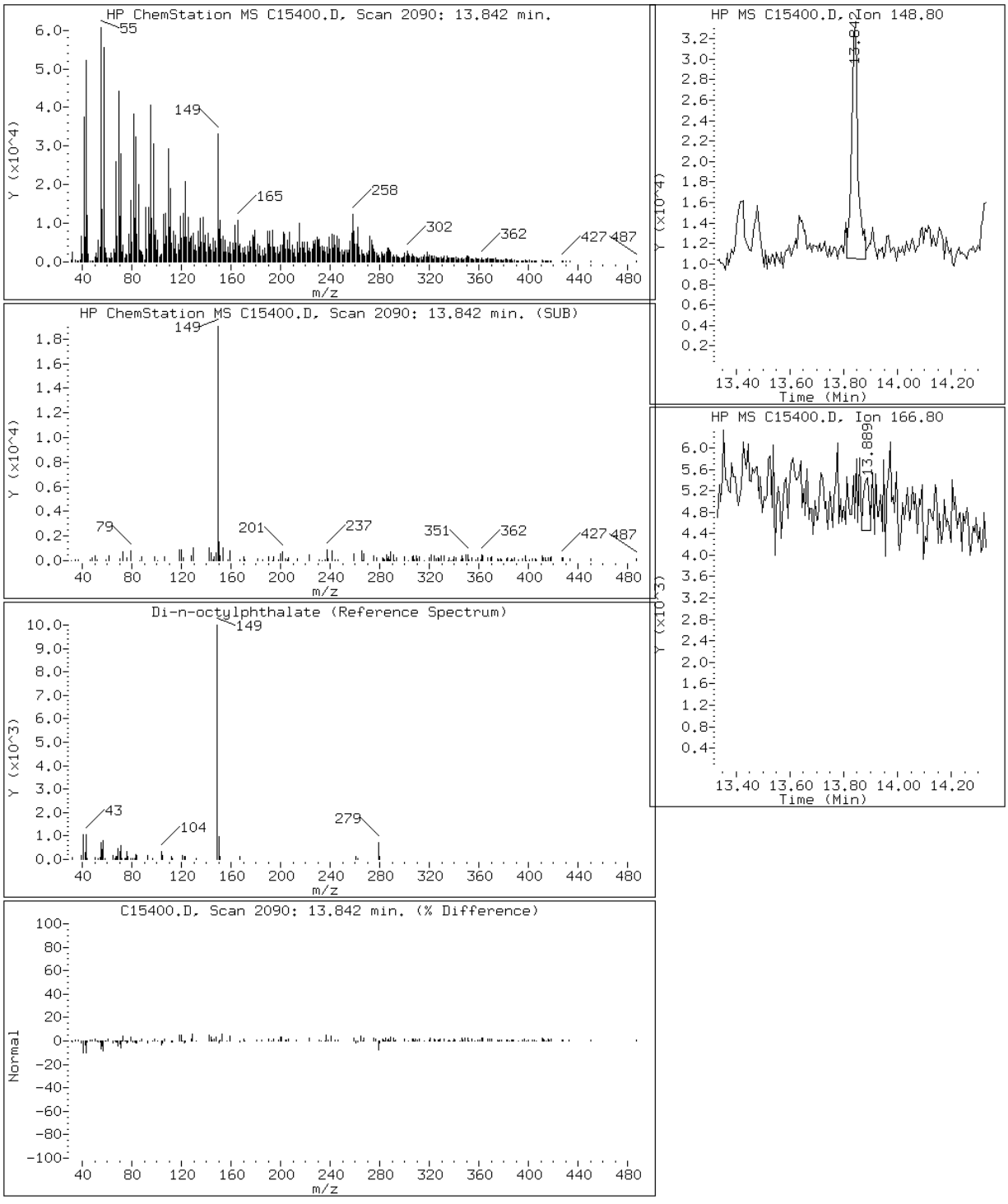
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

80 Di-n-octylphthalate



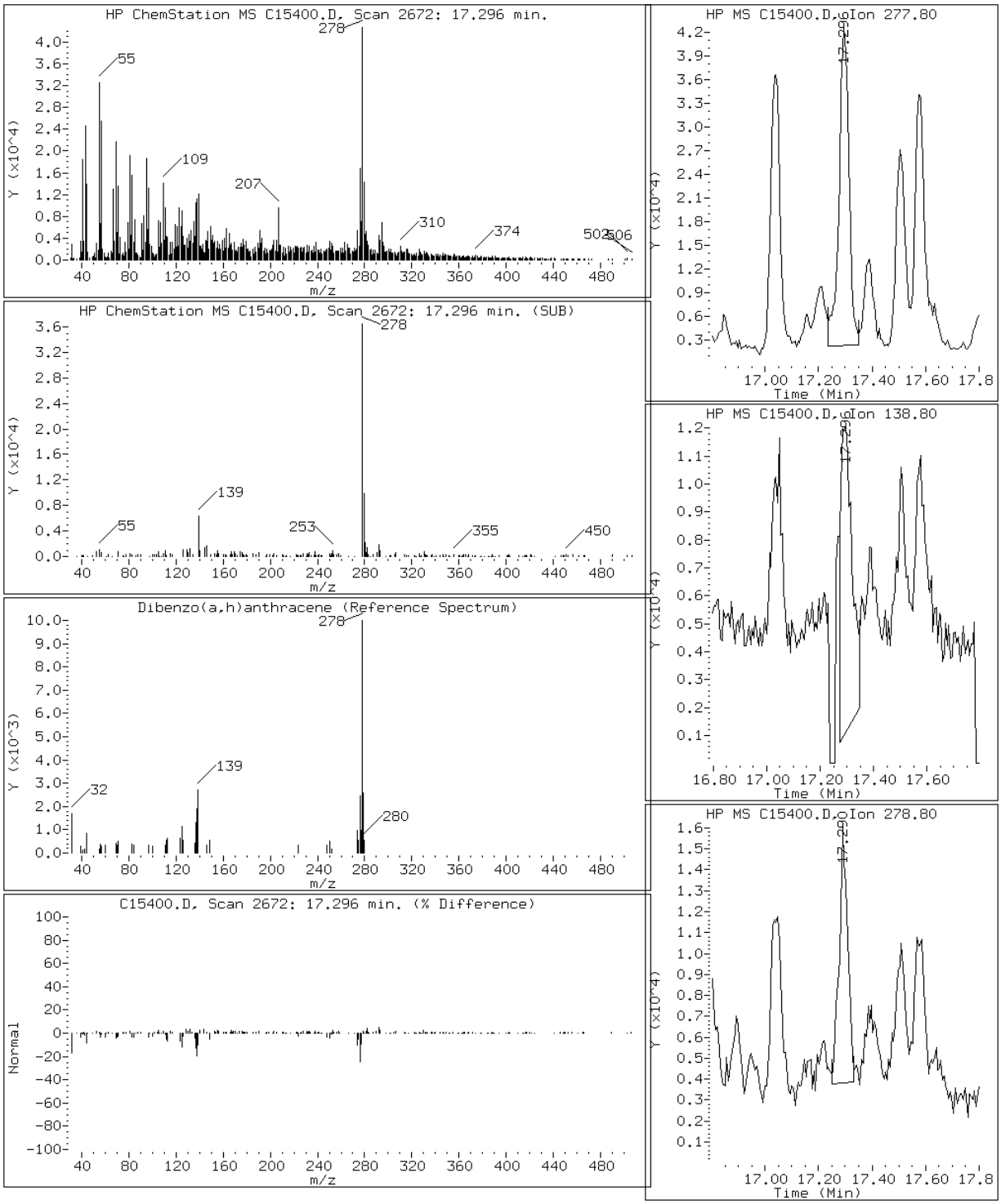
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

85 Dibenzo(a,h)anthracene



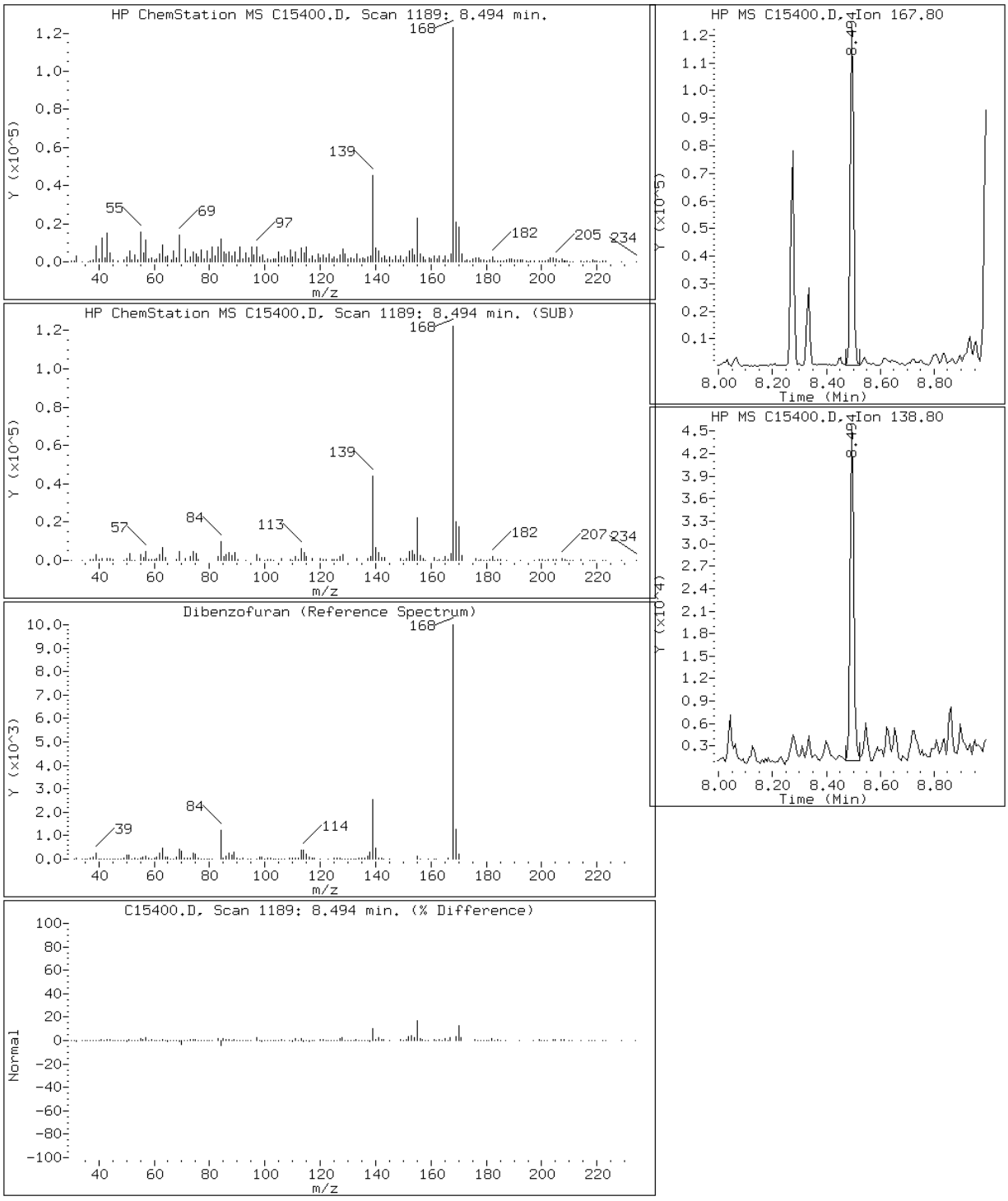
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

49 Dibenzofuran



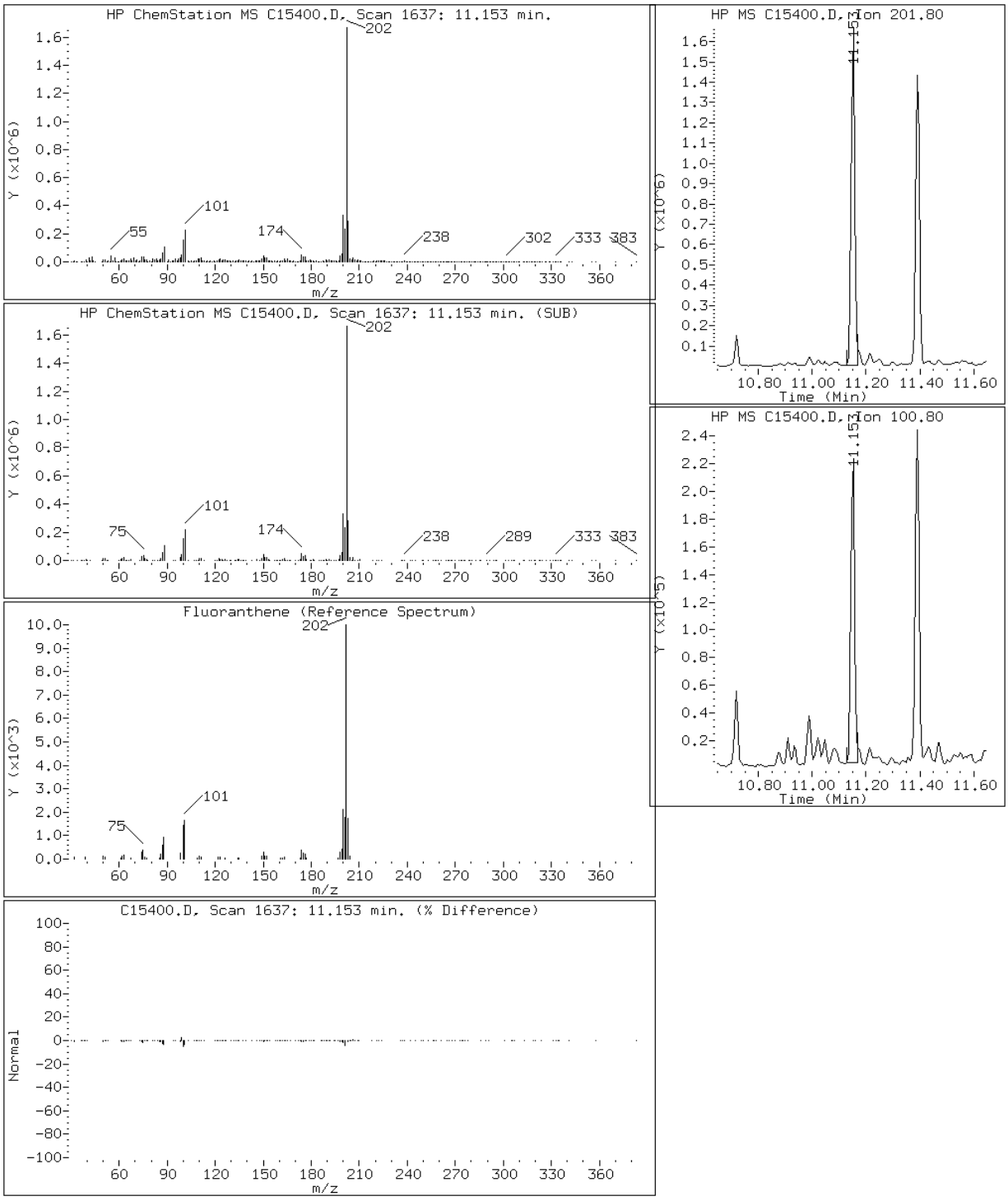
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

68 Fluoranthene



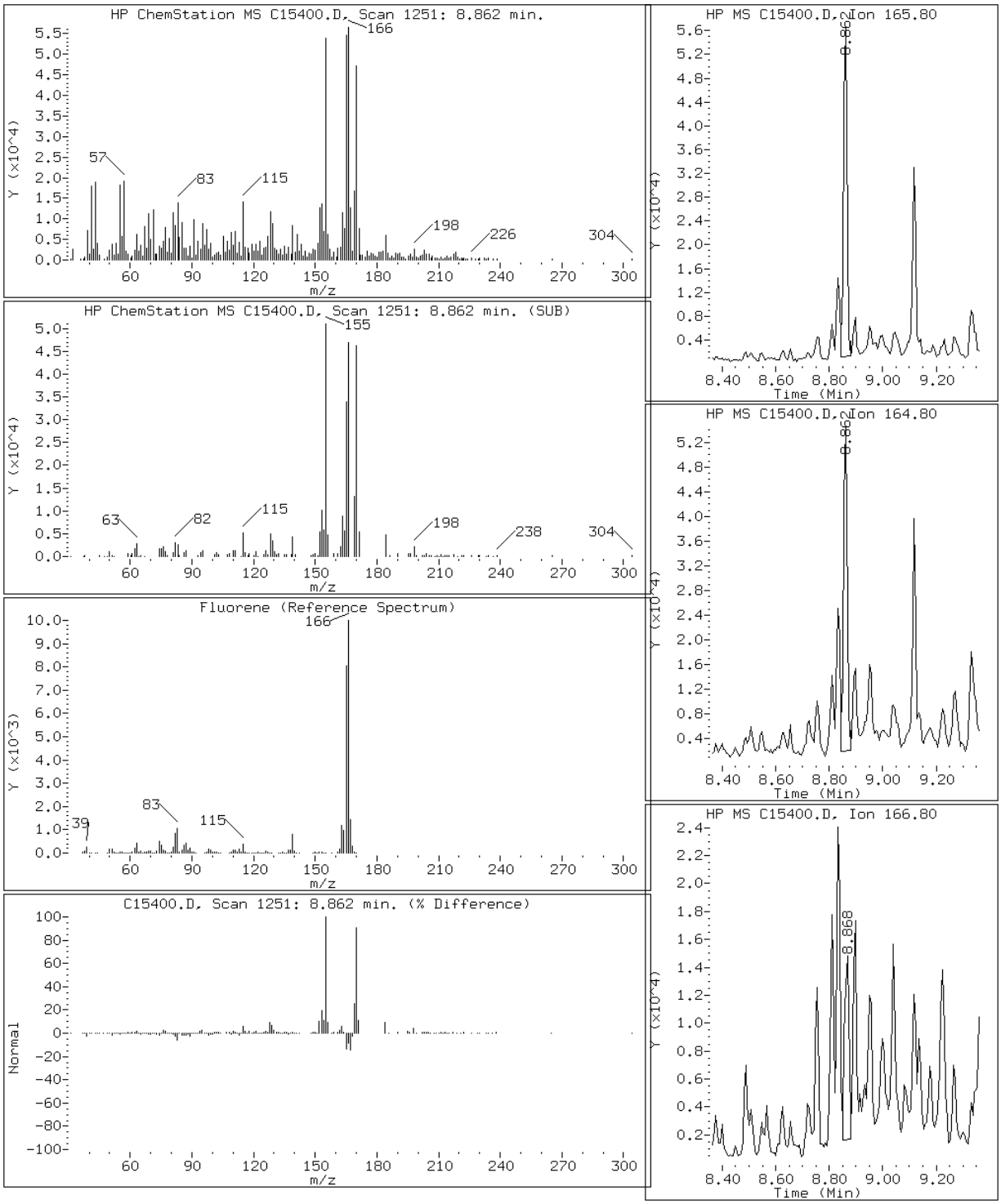
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

52 Fluorene



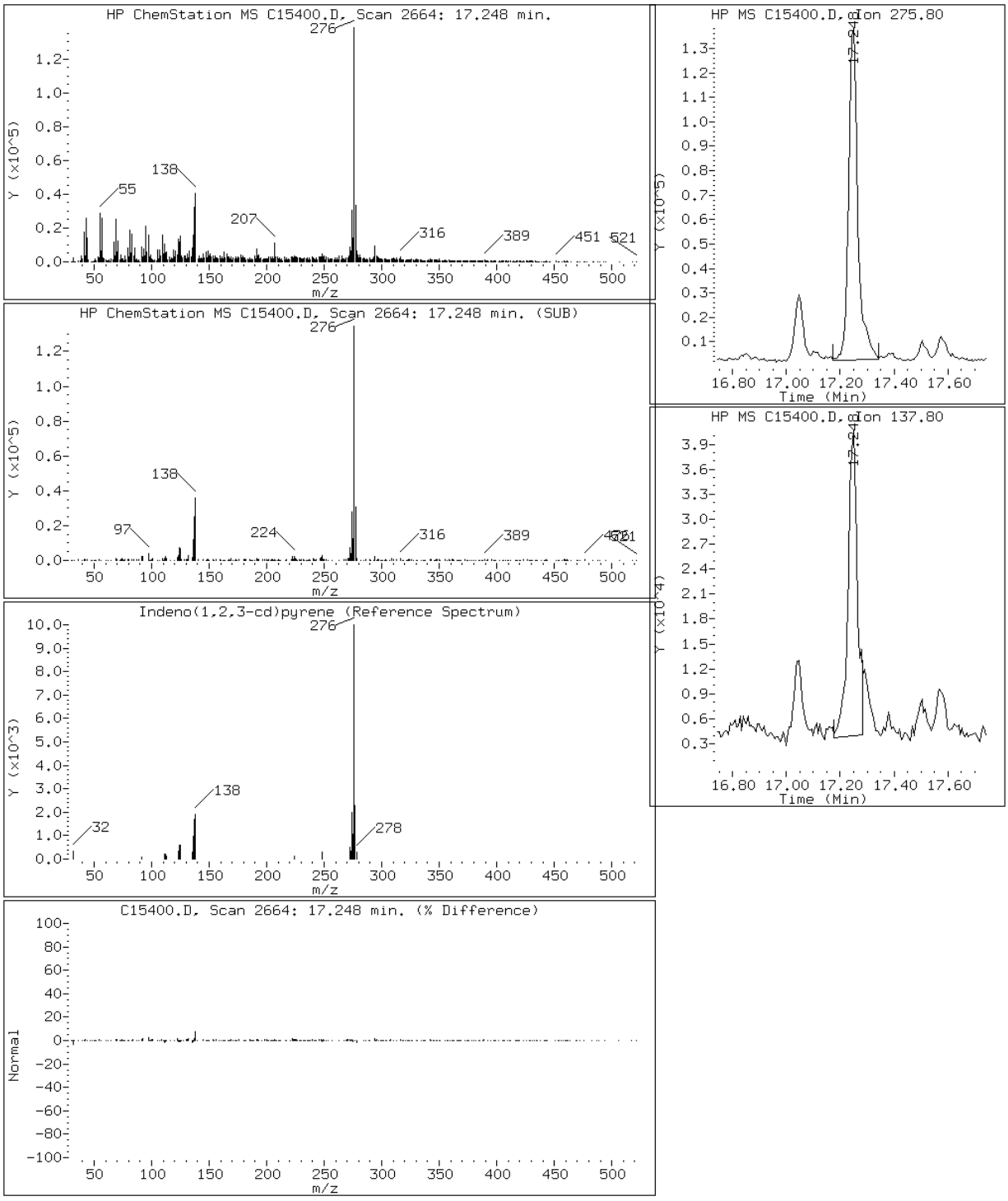
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



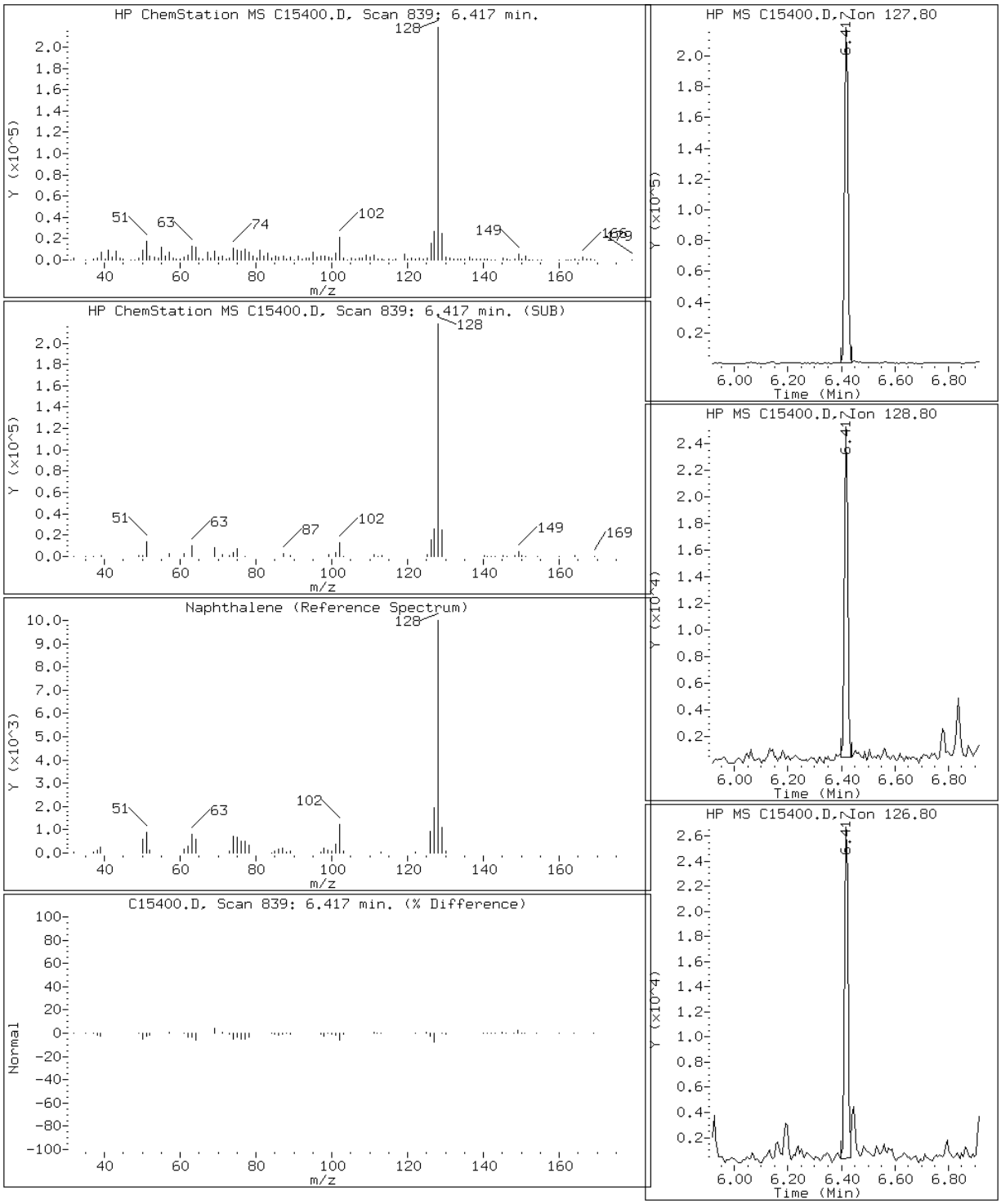
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

30 Naphthalene



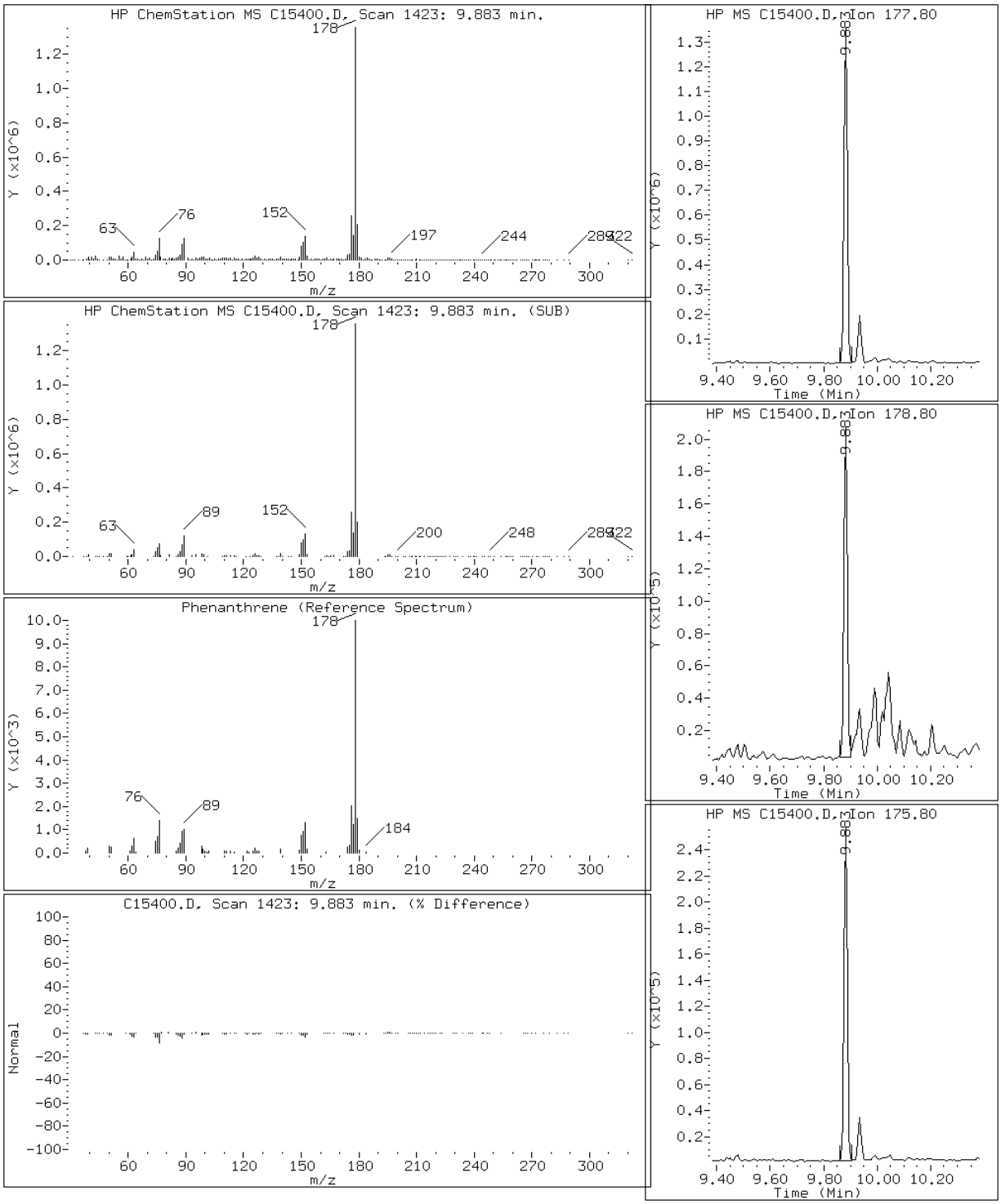
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

64 Phenanthrene



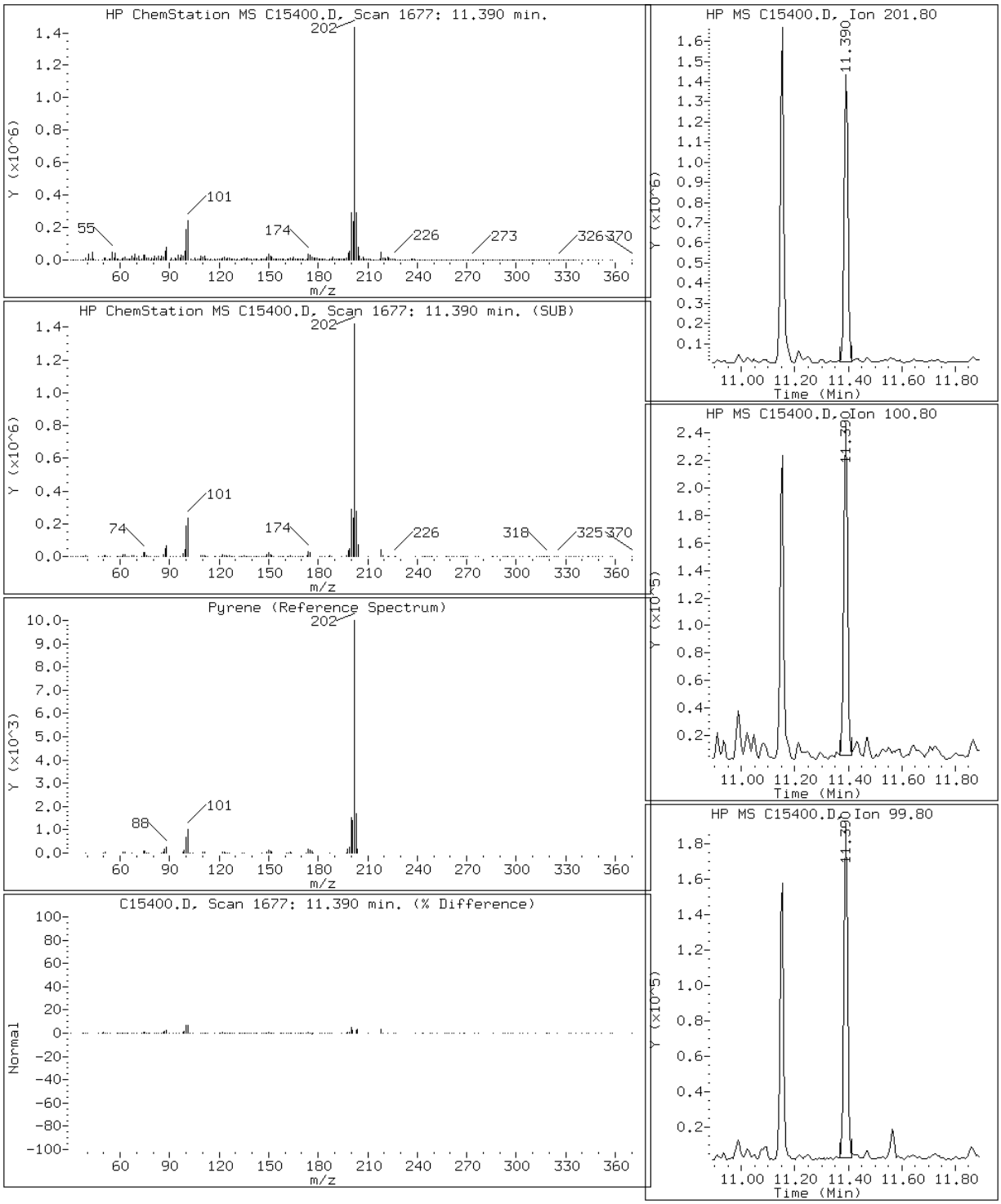
Data File: C15400.D

Date: 22-DEC-2009 16:43

Client ID: PBL-2-60-E(4') F.D. Instrument: msc.i

Sample Info: 220-11066-A-9-B Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') | Lab Sample ID: 220-11066-10

Matrix: Solid | Lab File ID: C15401.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:00

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.25(g) | Date Analyzed: 12/22/2009 17:14

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	350	U	350	23
95-95-4	2,4,5-Trichlorophenol	2200	U	2200	18
88-06-2	2,4,6-Trichlorophenol	350	U	350	9.5
120-83-2	2,4-Dichlorophenol	350	U	350	19
105-67-9	2,4-Dimethylphenol	350	U	350	17
121-14-2	2,4-Dinitrotoluene	350	U	350	28
51-28-5	2,4-Dinitrophenol	2200	U	2200	100
606-20-2	2,6-Dinitrotoluene	350	U	350	10
91-58-7	2-Chloronaphthalene	350	U	350	15
95-57-8	2-Chlorophenol	350	U	350	20
91-57-6	2-Methylnaphthalene	77	J	350	9.9
95-48-7	2-Methylphenol	350	U	350	21
88-74-4	2-Nitroaniline	860	U	860	21
88-75-5	2-Nitrophenol	350	U	350	22
91-94-1	3,3'-Dichlorobenzidine	420	U	420	71
99-09-2	3-Nitroaniline	860	U	860	11
534-52-1	4,6-Dinitro-2-methylphenol	2200	U	2200	150
101-55-3	4-Bromophenyl phenyl ether	350	U	350	22
59-50-7	4-Chloro-3-methylphenol	350	U	350	14
106-47-8	4-Chloroaniline	350	U	350	57
7005-72-3	4-Chlorophenyl phenyl ether	350	U	350	26
106-44-5	4-Methylphenol	350	U	350	23
100-01-6	4-Nitroaniline	350	U	350	27
100-02-7	4-Nitrophenol	2200	U	2200	26
83-32-9	Acenaphthene	53	J	350	21
208-96-8	Acenaphthylene	99	J	350	17
98-86-2	Acetophenone	350	U	350	18
120-12-7	Anthracene	190	J	350	14
1912-24-9	Atrazine	420	U	420	22
100-52-7	Benzaldehyde	350	U	350	58
56-55-3	Benzo[a]anthracene	540		350	12
50-32-8	Benzo[a]pyrene	710		350	9.4
205-99-2	Benzo[b]fluoranthene	830		350	9.3
191-24-2	Benzo[g,h,i]perylene	380		350	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') | Lab Sample ID: 220-11066-10

Matrix: Solid | Lab File ID: C15401.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:00

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.25(g) | Date Analyzed: 12/22/2009 17:14

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	270	J	350	31
111-91-1	Bis(2-chloroethoxy)methane	350	U	350	16
111-44-4	Bis(2-chloroethyl)ether	350	U	350	18
117-81-7	Bis(2-ethylhexyl) phthalate	180	J B	350	34
85-68-7	Butyl benzyl phthalate	350	U	350	19
105-60-2	Caprolactam	350	U	350	27
86-74-8	Carbazole	41	J	350	19
218-01-9	Chrysene	590		350	26
84-74-2	Di-n-butyl phthalate	350	U	350	50
117-84-0	Di-n-octyl phthalate	350	U	350	20
53-70-3	Dibenz(a,h)anthracene	98	J	350	27
132-64-9	Dibenzofuran	37	J	350	24
84-66-2	Diethyl phthalate	350	U	350	35
131-11-3	Dimethyl phthalate	350	U	350	20
206-44-0	Fluoranthene	670		350	17
86-73-7	Fluorene	82	J	350	21
118-74-1	Hexachlorobenzene	350	U	350	24
87-68-3	Hexachlorobutadiene	350	U	350	27
77-47-4	Hexachlorocyclopentadiene	860	U	860	160
67-72-1	Hexachloroethane	350	U	350	20
193-39-5	Indeno[1,2,3-cd]pyrene	380		350	23
78-59-1	Isophorone	350	U	350	19
621-64-7	N-Nitrosodi-n-propylamine	350	U	350	23
86-30-6	N-Nitrosodiphenylamine	350	U	350	20
91-20-3	Naphthalene	100	J	350	18
98-95-3	Nitrobenzene	350	U	350	22
87-86-5	Pentachlorophenol	860	U	860	210
85-01-8	Phenanthrene	520		350	17
108-95-2	Phenol	350	U	350	23
129-00-0	Pyrene	2100		350	16
108-60-1	2,2'-oxybis[1-chloropropane]	350	U	350	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') | Lab Sample ID: 220-11066-10

Matrix: Solid | Lab File ID: C15401.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:00

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.25(g) | Date Analyzed: 12/22/2009 17:14

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	59	37-120	
321-60-8	2-Fluorobiphenyl	53	41-120	
367-12-4	2-Fluorophenol	49	34-120	
4165-60-0	Nitrobenzene-d5	51	38-120	
4165-62-2	Phenol-d5	49	36-120	
1718-51-0	Terphenyl-d14	55	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15401.D
Lab Smp Id: 220-11066-A-10-B Client Smp ID: PBL-2-30-N(10')
Inj Date : 22-DEC-2009 17:14
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-10-B
Misc Info : 220-11066-A-10-B
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.250	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	23.580	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.027	5.021	(1.000)	438901	20.0000	
$	2 2-Fluorophenol	112	3.567	3.549	(0.710)	1028744	36.9310	3200
$	3 Phenol-d5	99	4.677	4.671	(0.930)	1424887	36.5522	3100
*	20 Naphthalene-d8	136	6.398	6.398	(1.000)	2071193	20.0000	
$	21 Nitrobenzene-d5	82	5.627	5.627	(0.879)	983523	25.6537	2200
	30 Naphthalene	128	6.416	6.416	(1.003)	135423	1.20710	100
	34 2-Methylnaphthalene	142	7.164	7.164	(1.120)	68670	0.89644	77
*	35 Acenaphthene-d10	164	8.280	8.274	(1.000)	1486887	20.0000	
$	40 2-Fluorobiphenyl	172	7.568	7.567	(0.914)	2374235	26.4529	2300
	43 Acenaphthylene	152	8.120	8.119	(0.981)	151842	1.15104	99
	46 Acenaphthene	153	8.310	8.309	(1.004)	49914	0.62325	53
	49 Dibenzofuran	168	8.494	8.493	(1.026)	50950	0.43218	37
	52 Fluorene	166	8.862	8.861	(1.070)	92360	0.95708	82
$	56 2,4,6-Tribromophenol	330	9.123	9.117	(1.102)	597669	44.1018	3800
*	57 Phenanthrene-d10	188	9.859	9.852	(1.000)	2410399	20.0000	
	64 Phenanthrene	178	9.882	9.882	(1.002)	821279	6.04100	520
	65 Carbazole	167	10.114	10.108	(1.026)	65091	0.48135	41
	66 Anthracene	178	9.936	9.936	(1.008)	311330	2.20496	190

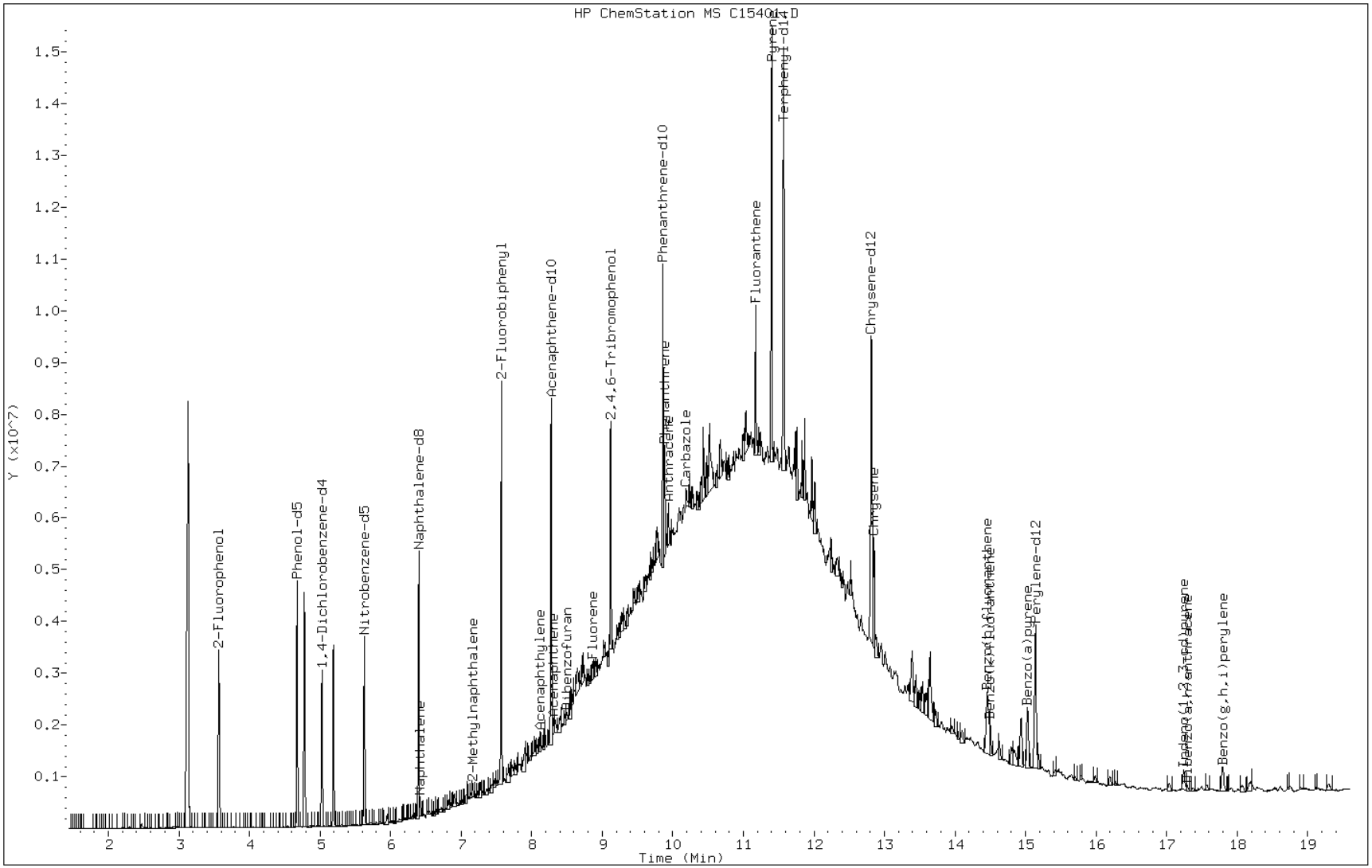
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	68 Fluoranthene	202	11.170	11.146	(1.133)	1214999	7.75002	670
*	70 Chrysene-d12	240	12.820	12.808	(1.000)	2673233	20.0000	
	72 Pyrene	202	11.402	11.390	(0.889)	3903266	24.5055	2100
$	73 Terphenyl-d14	244	11.568	11.562	(0.902)	3080324	27.6949	2400
	76 Benzo(a)anthracene	228	12.803	12.796	(0.999)	954360	6.31236	540
	77 Chrysene	228	12.850	12.850	(1.002)	998580	6.83715	590
	78 Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.002)	213609	2.12286	180
*	79 Perylene-d12	264	15.141	15.129	(1.000)	1529178	20.0000	
	81 Benzo(b)fluoranthene	252	14.459	14.452	(0.955)	1021903	9.65751	830
	82 Benzo(k)fluoranthene	252	14.500	14.500	(0.958)	359869	3.12386	270
	83 Benzo(a)pyrene	252	15.028	15.028	(0.993)	743572	8.24667	710
	84 Indeno(1,2,3-cd)pyrene	276	17.242	17.242	(1.139)	354226	4.47651	380
	85 Dibenzo(a,h)anthracene	278	17.290	17.301	(1.142)	96428	1.14701	98
	86 Benzo(g,h,i)perylene	276	17.794	17.794	(1.175)	384691	4.46681	380

Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas



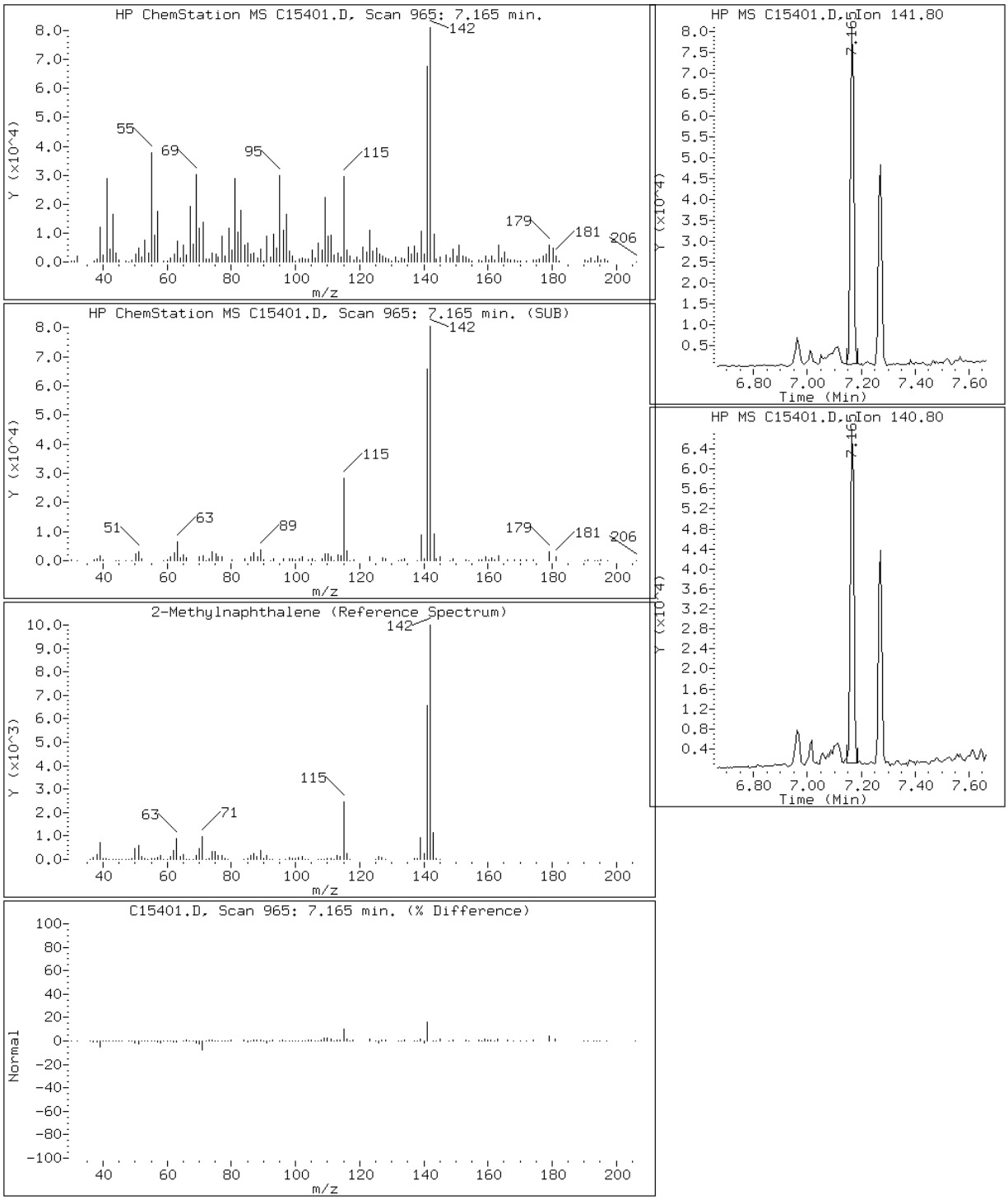
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

34 2-Methylnaphthalene



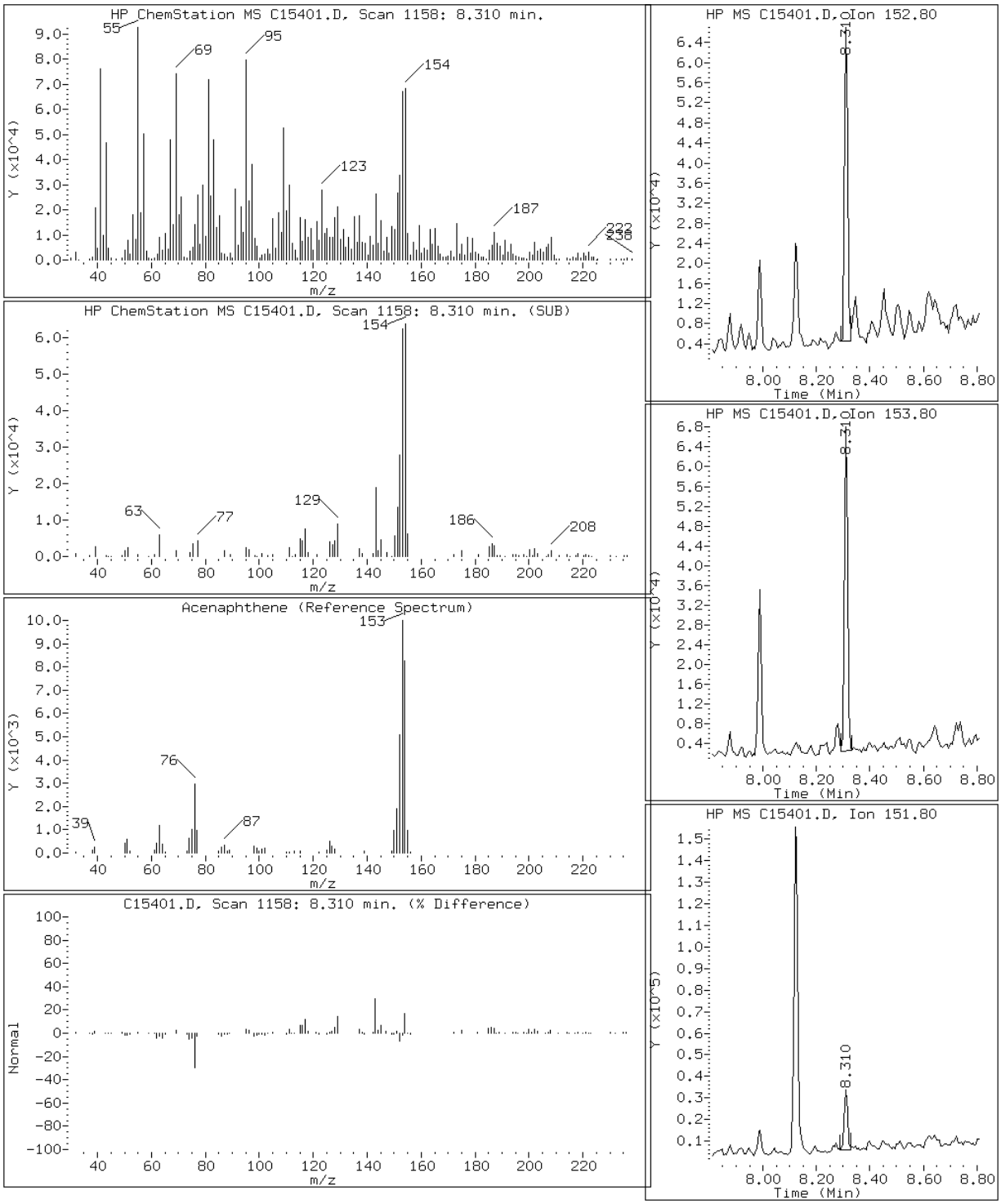
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

46 Acenaphthene



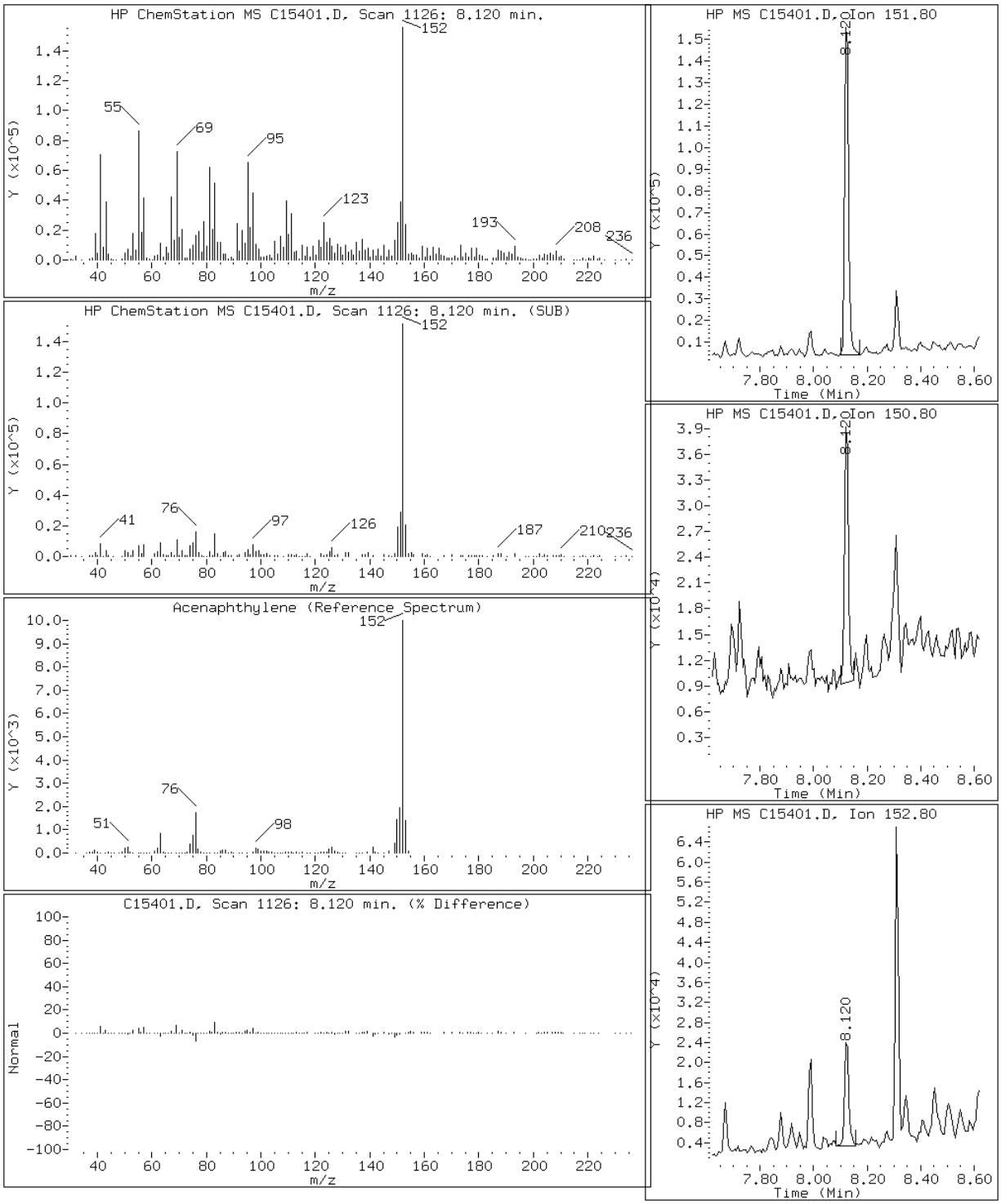
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

43 Acenaphthylene



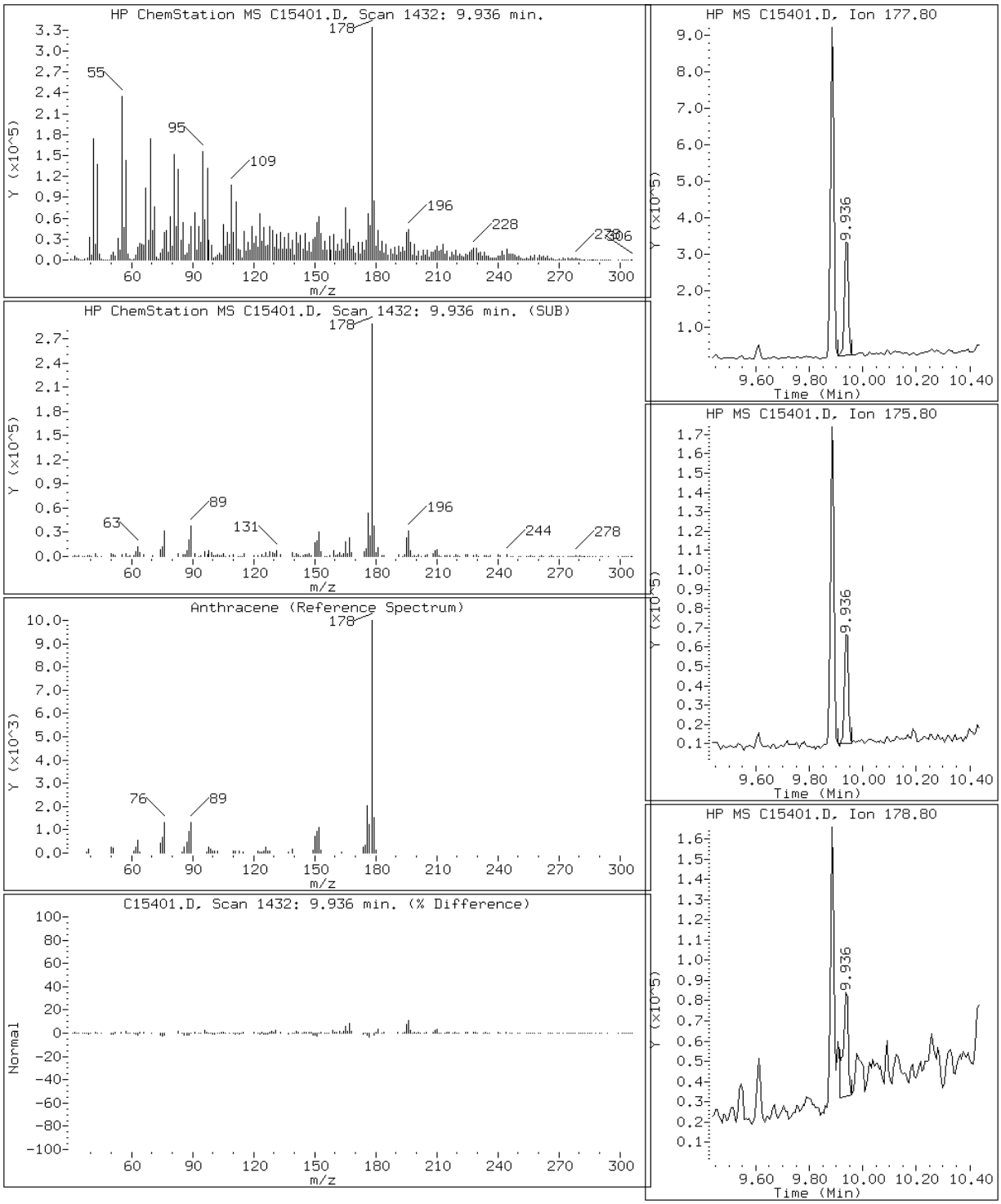
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

66 Anthracene



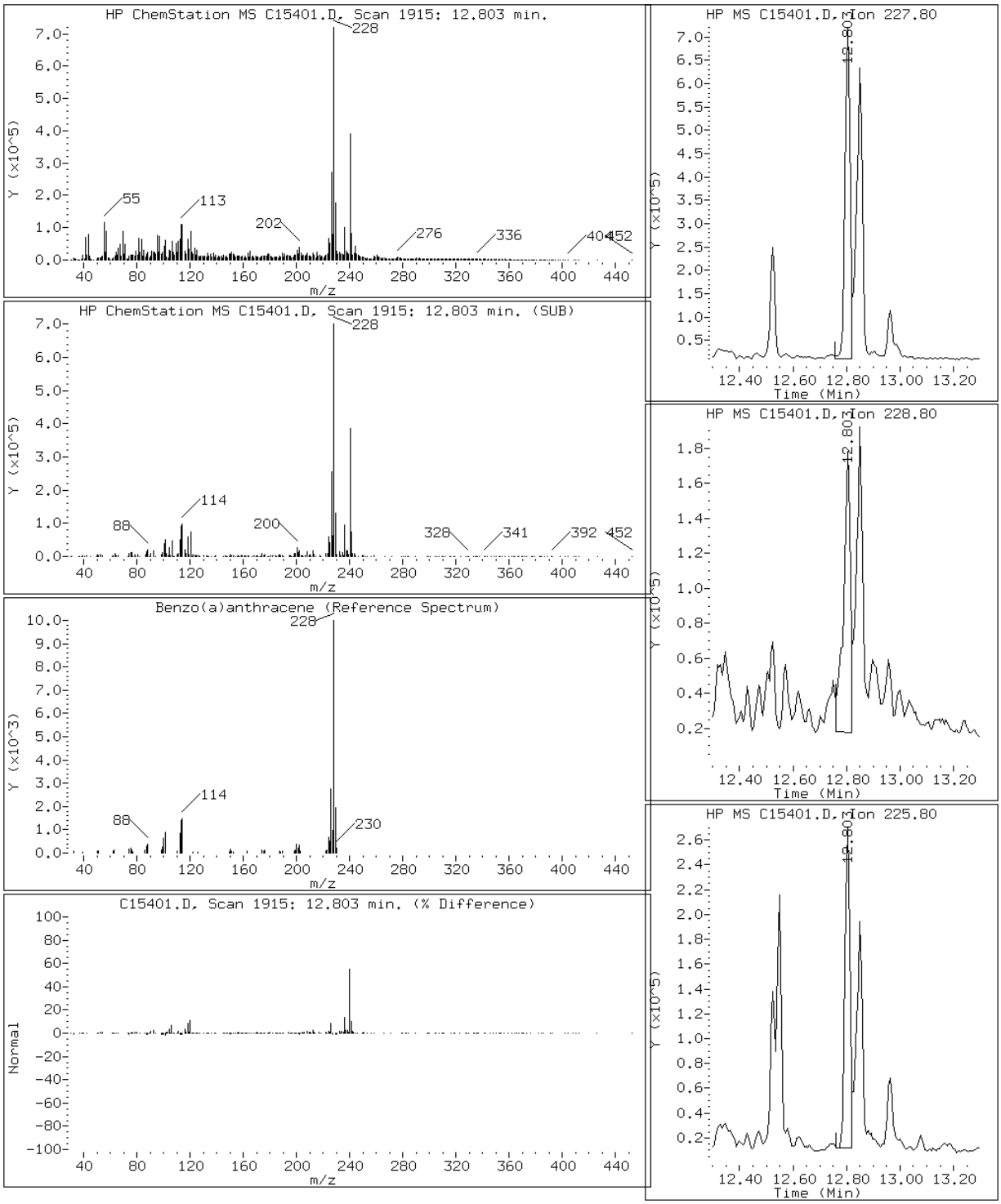
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

76 Benzo(a)anthracene



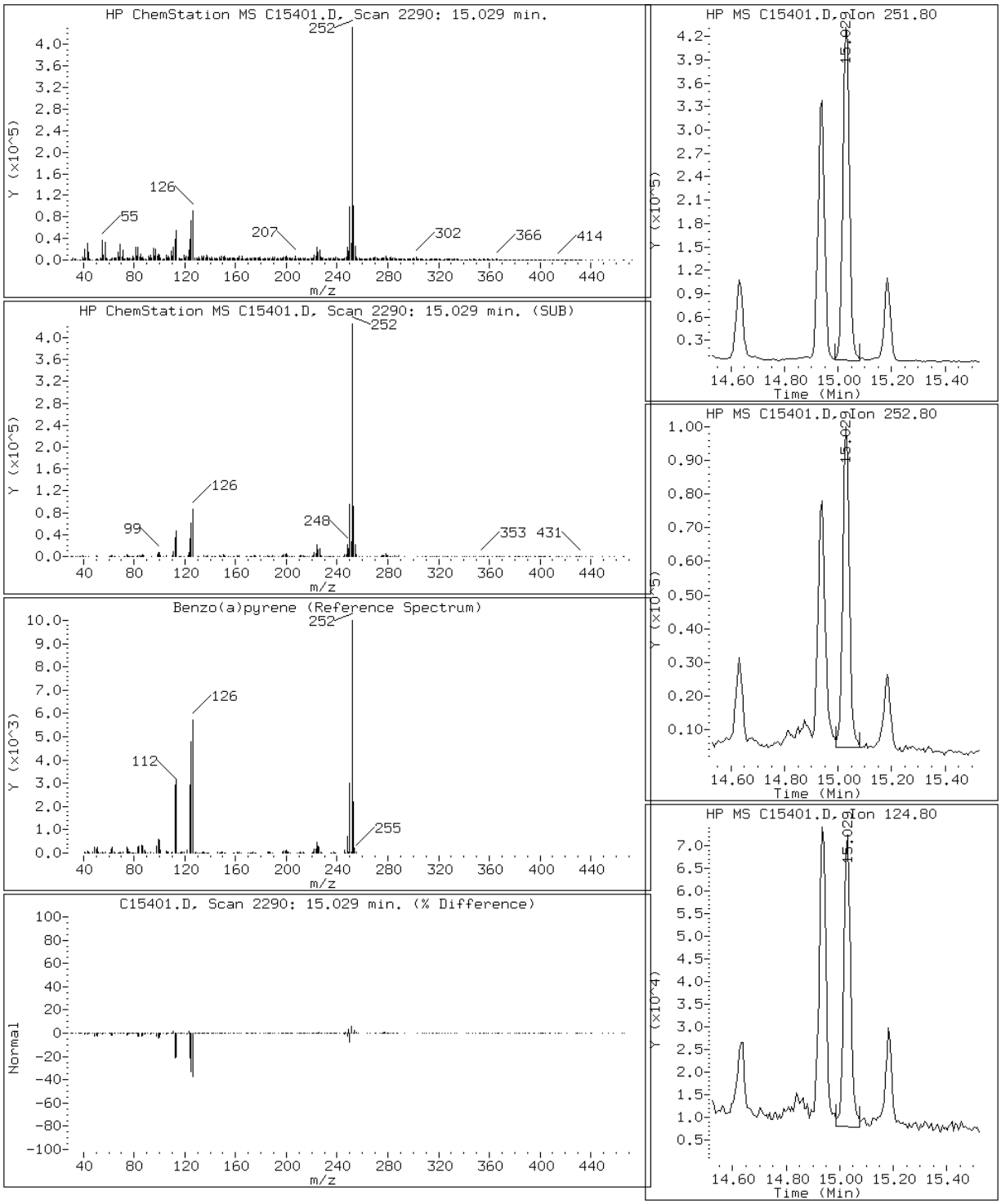
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

83 Benzo(a)pyrene



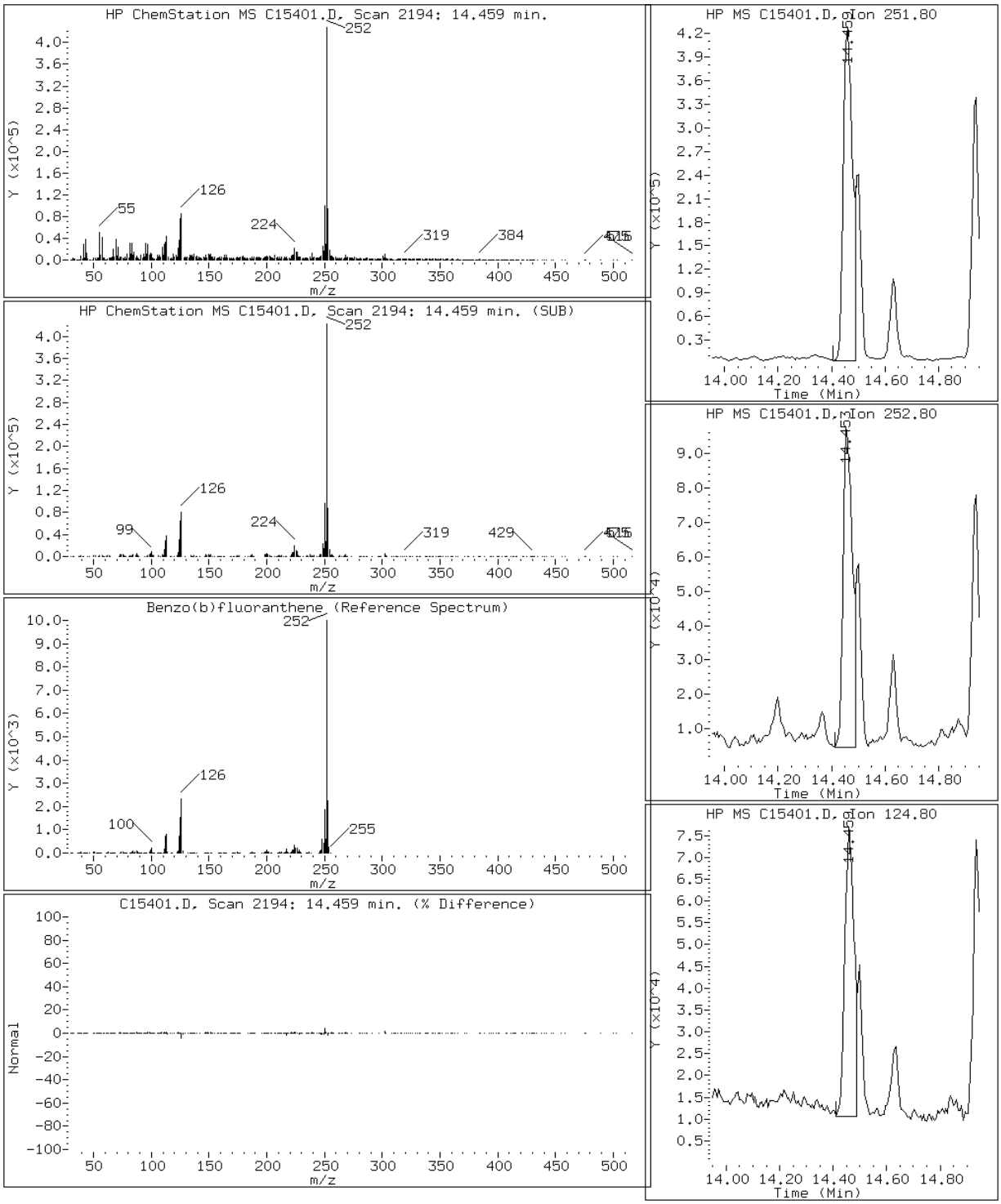
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

81 Benzo(b)fluoranthene



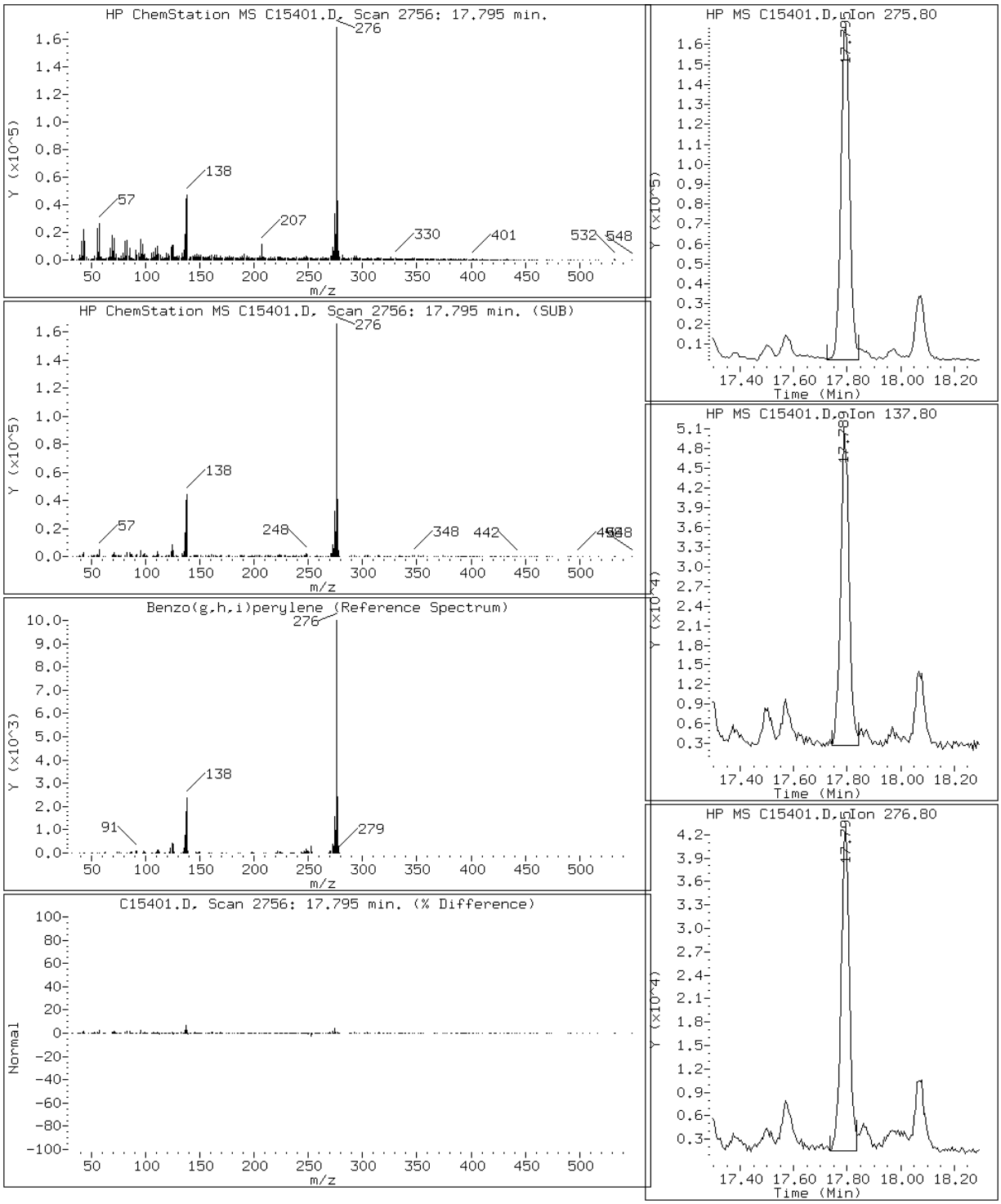
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

86 Benzo(g,h,i)perylene



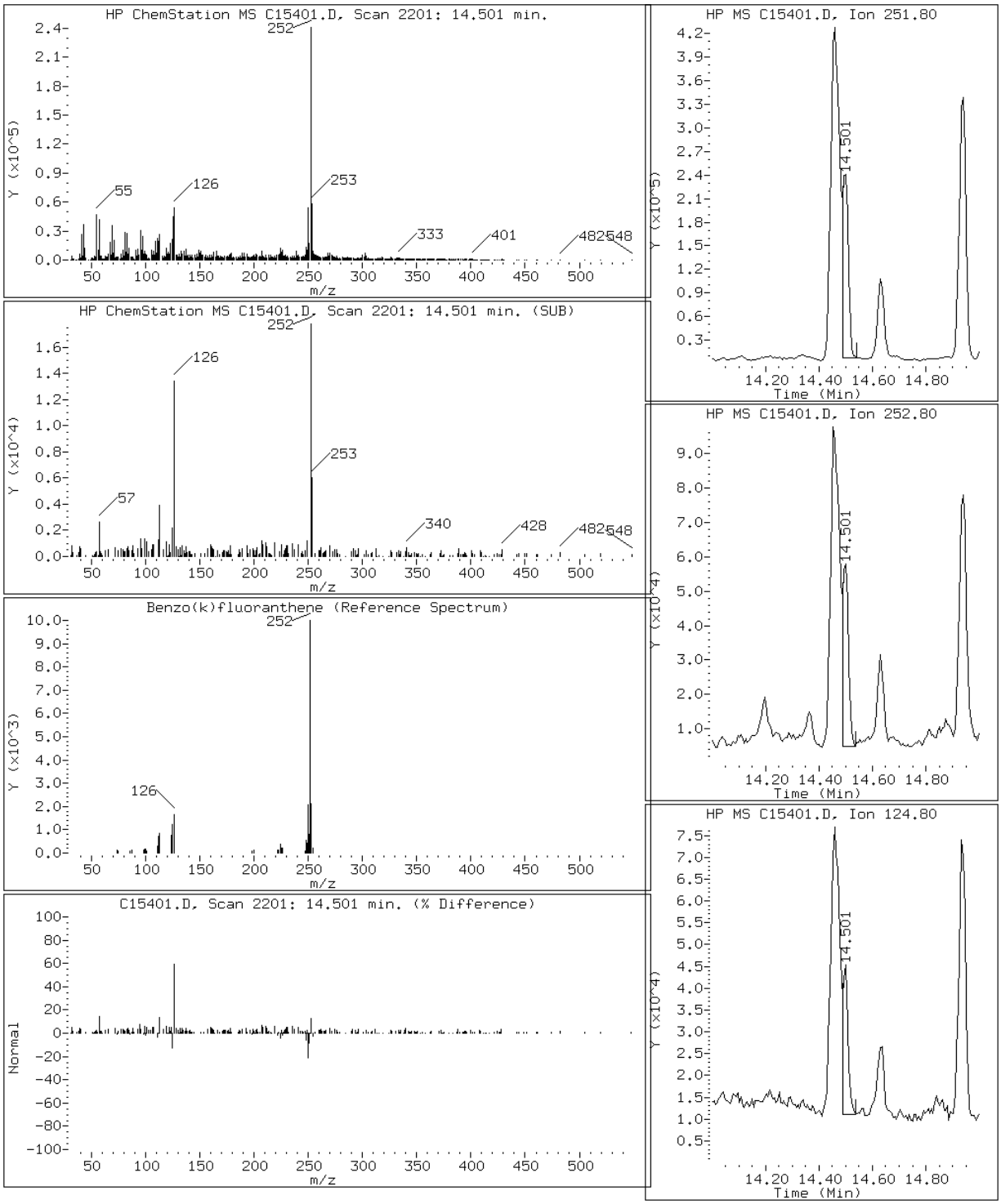
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

82 Benzo(k)fluoranthene



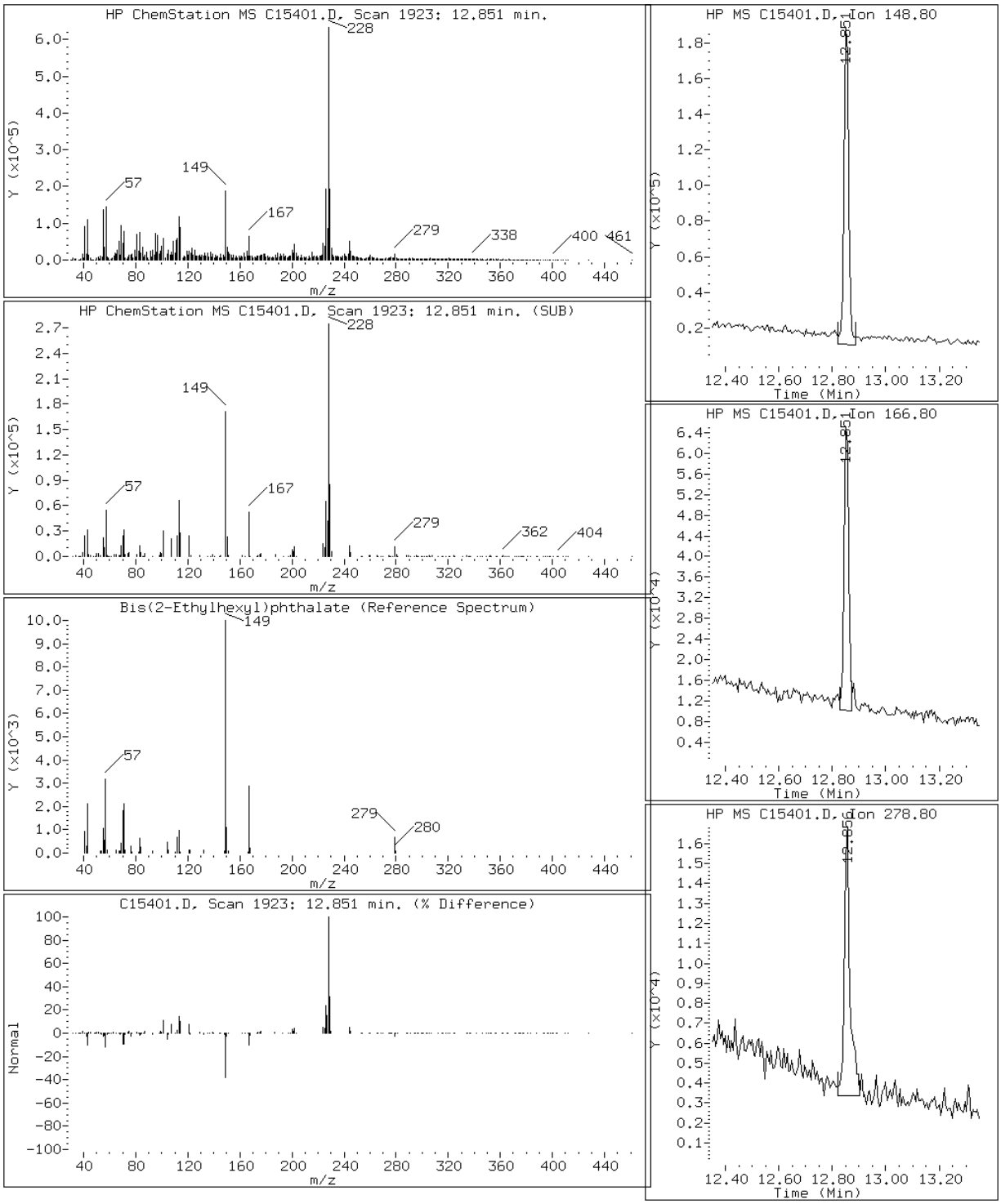
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



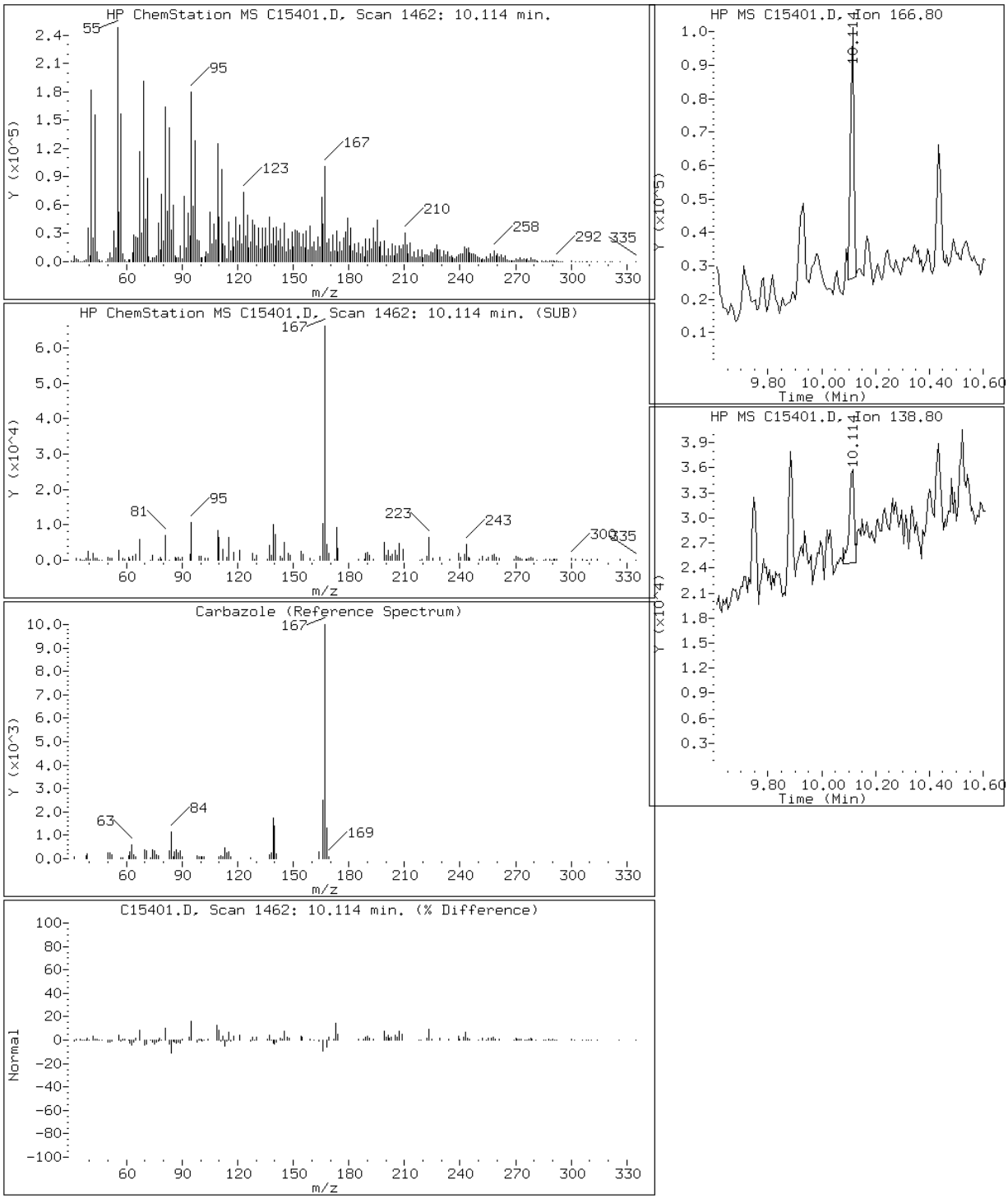
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

65 Carbazole



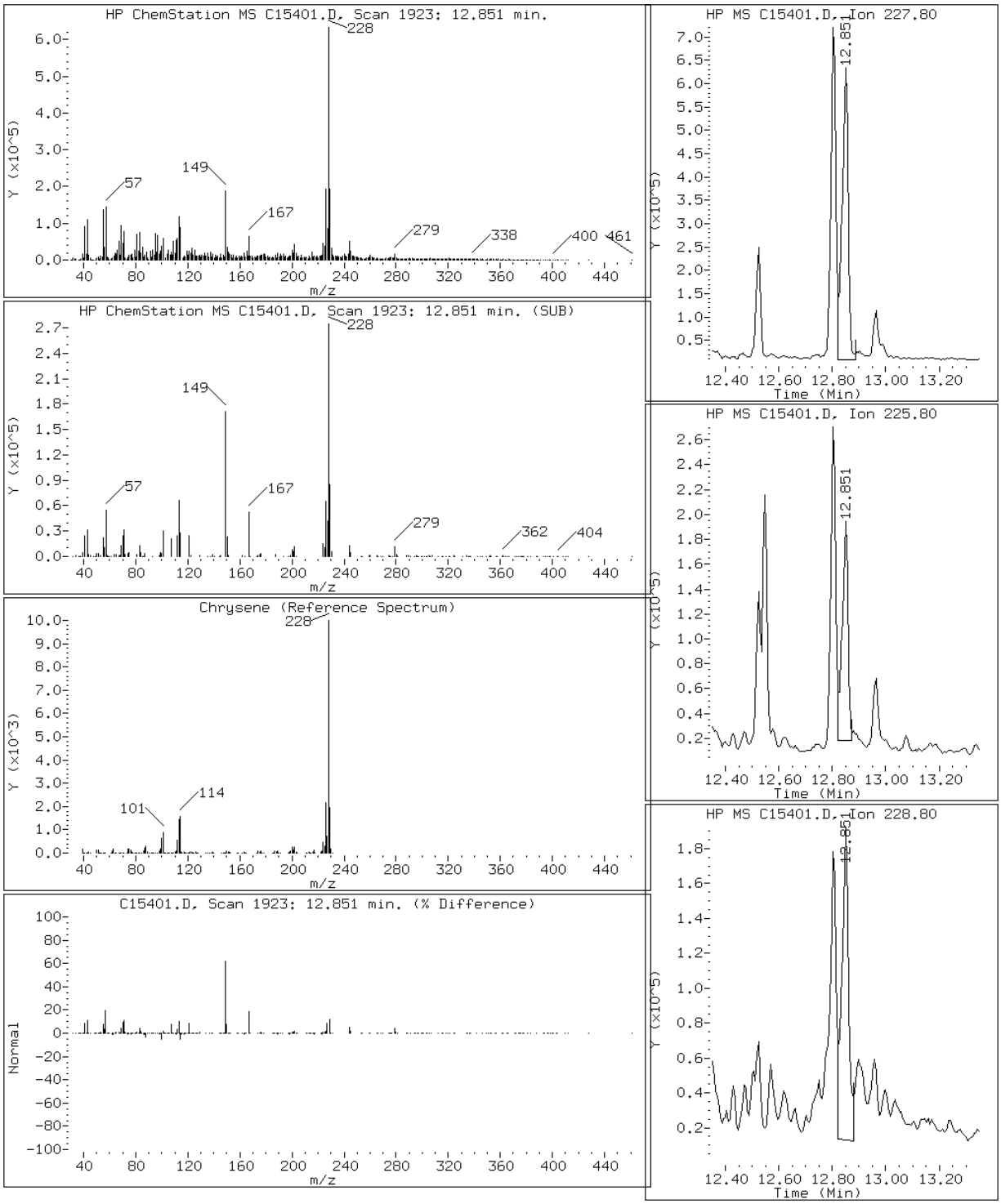
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

77 Chrysene



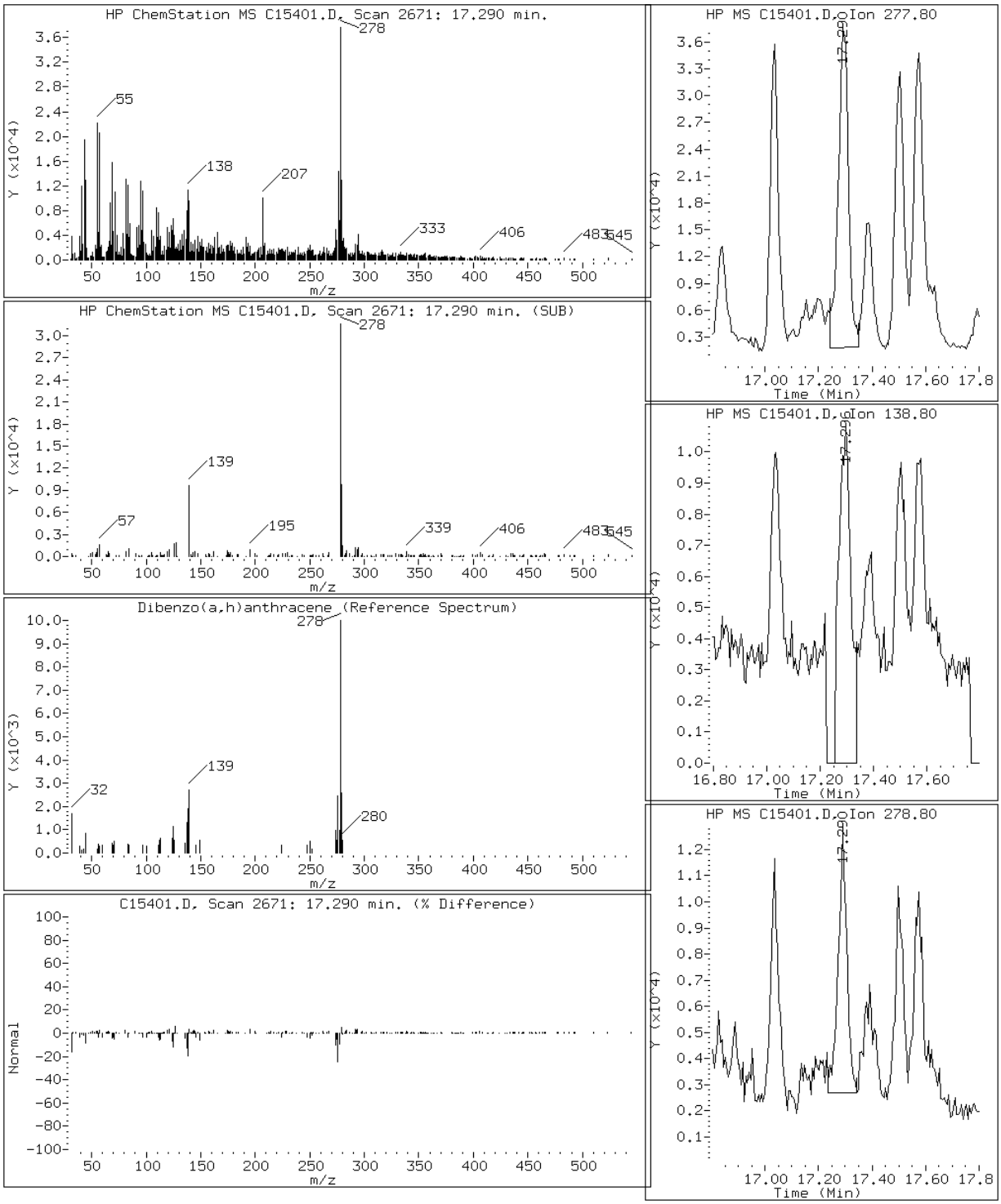
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

85 Dibenzo(a,h)anthracene



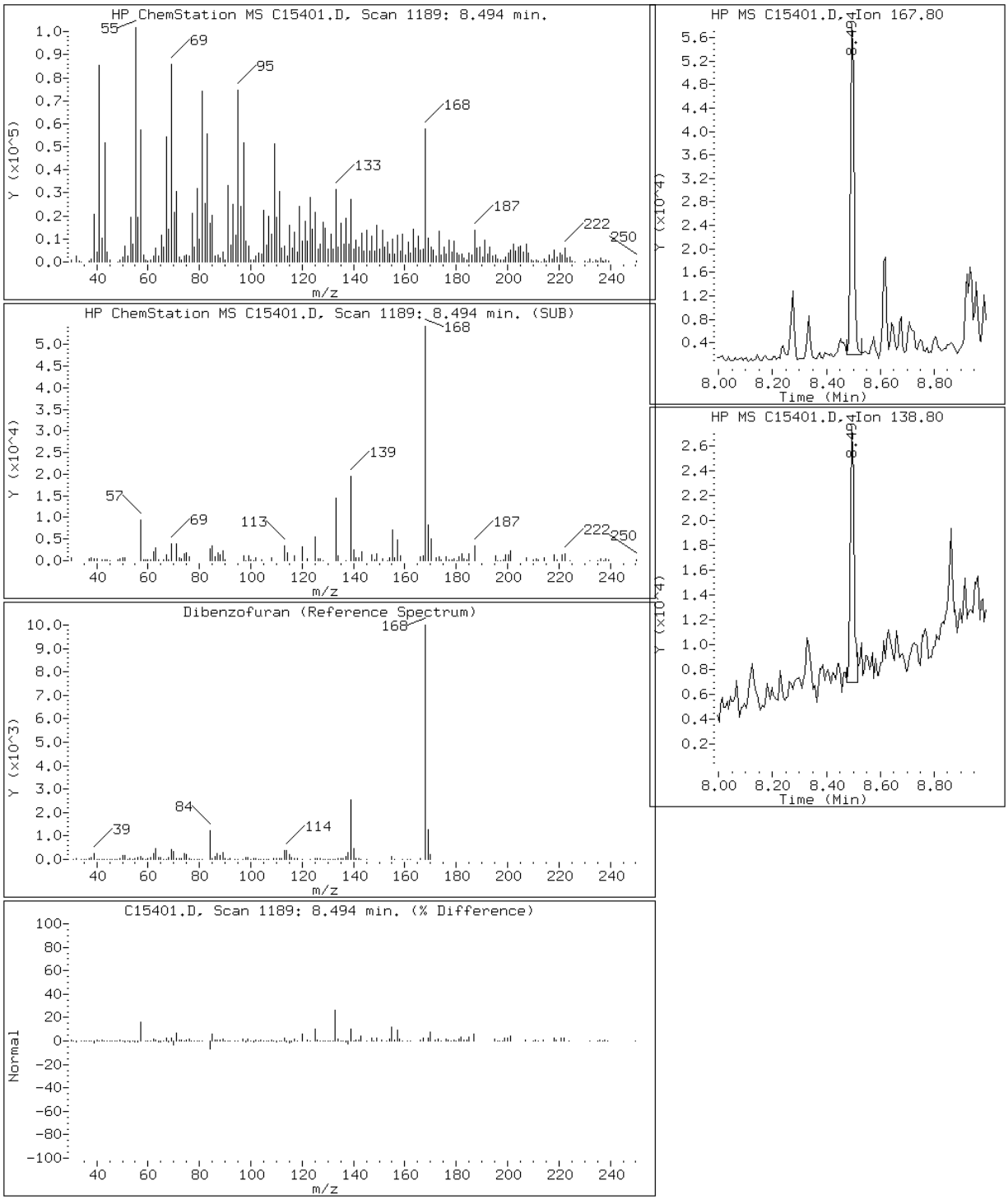
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

49 Dibenzofuran



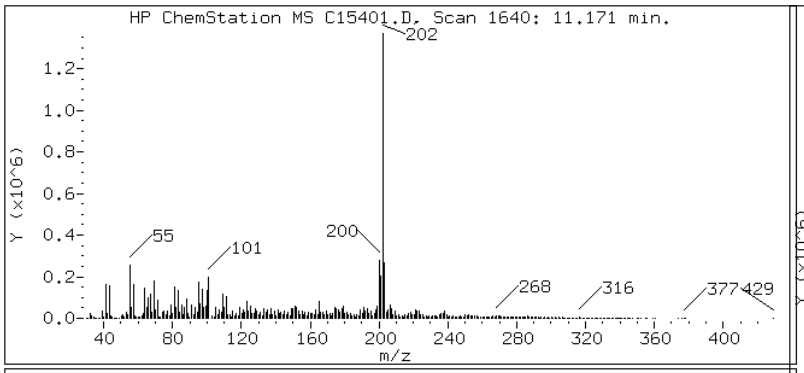
Data File: C15401.D

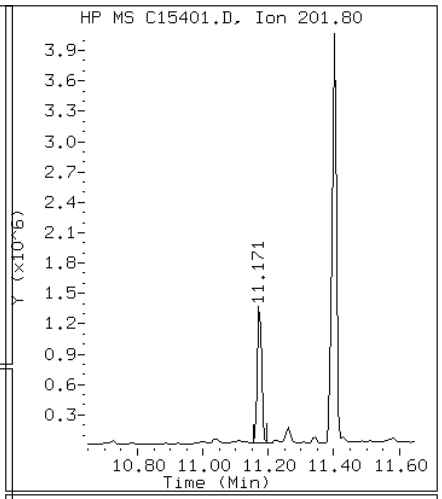
Date: 22-DEC-2009 17:14

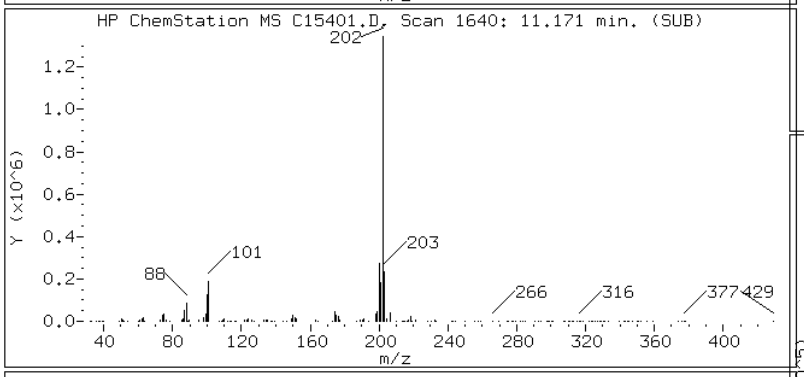
Client ID: PBL-2-30-N(10') Instrument: msc.i

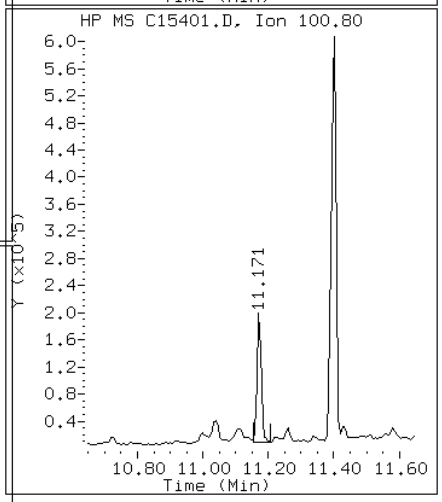
Sample Info: 220-11066-A-10-B Operator: S.Jonas

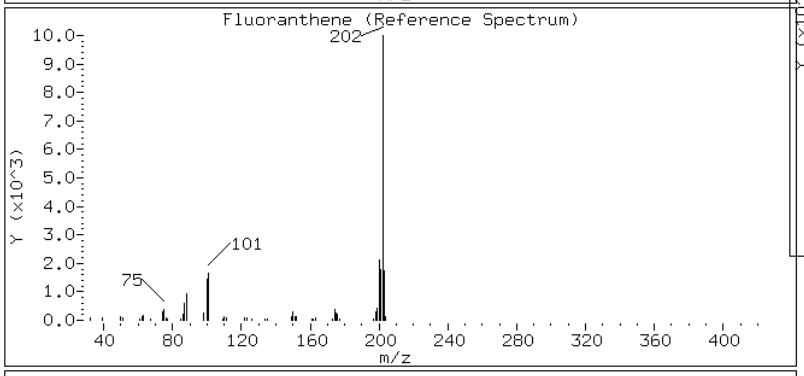
68 Fluoranthene

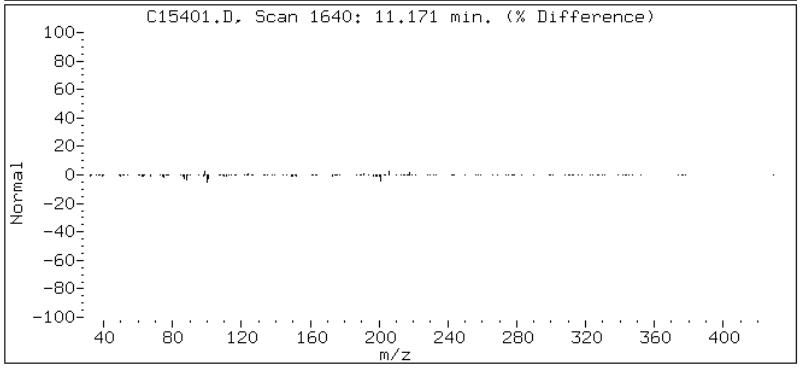












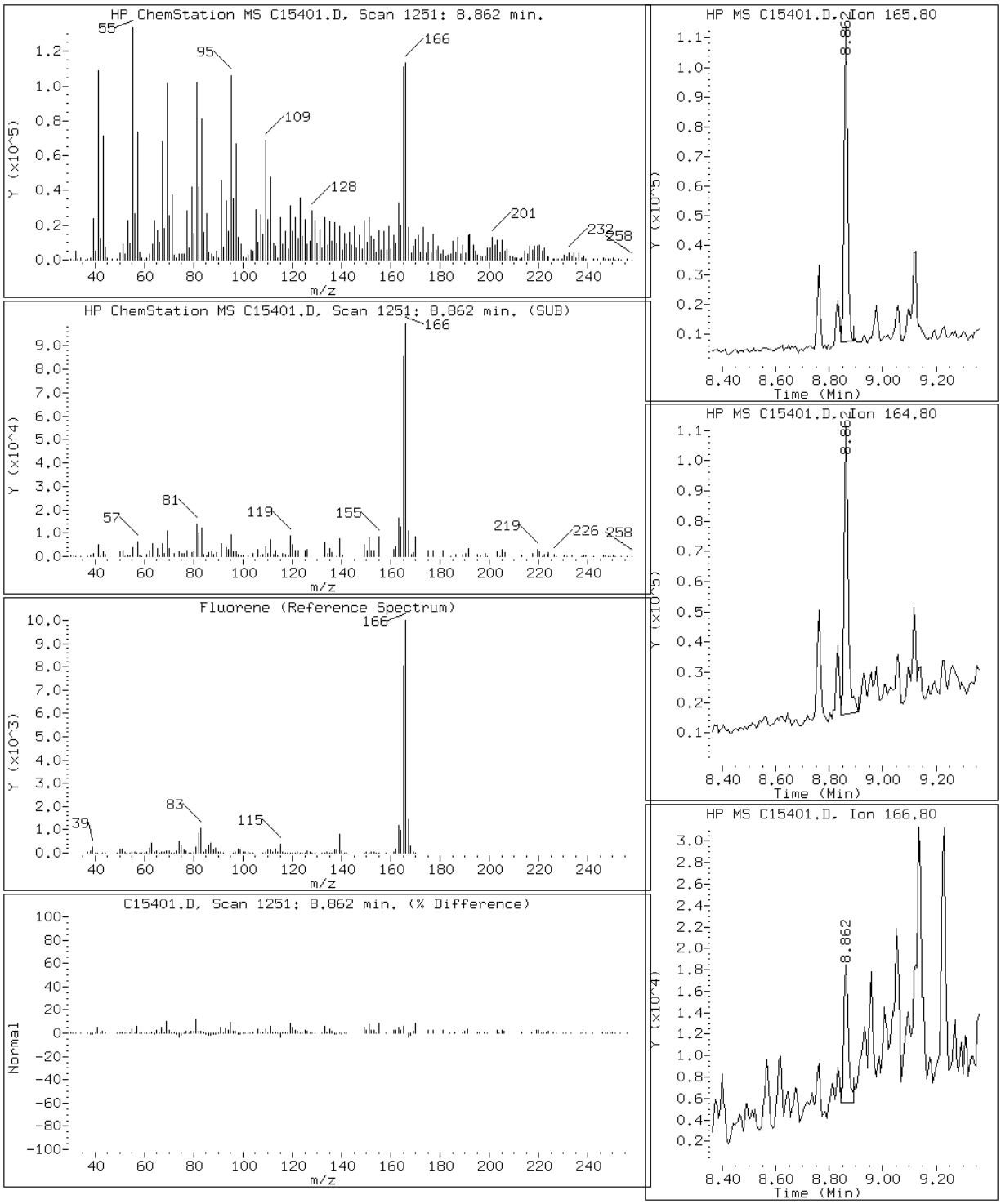
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

52 Fluorene



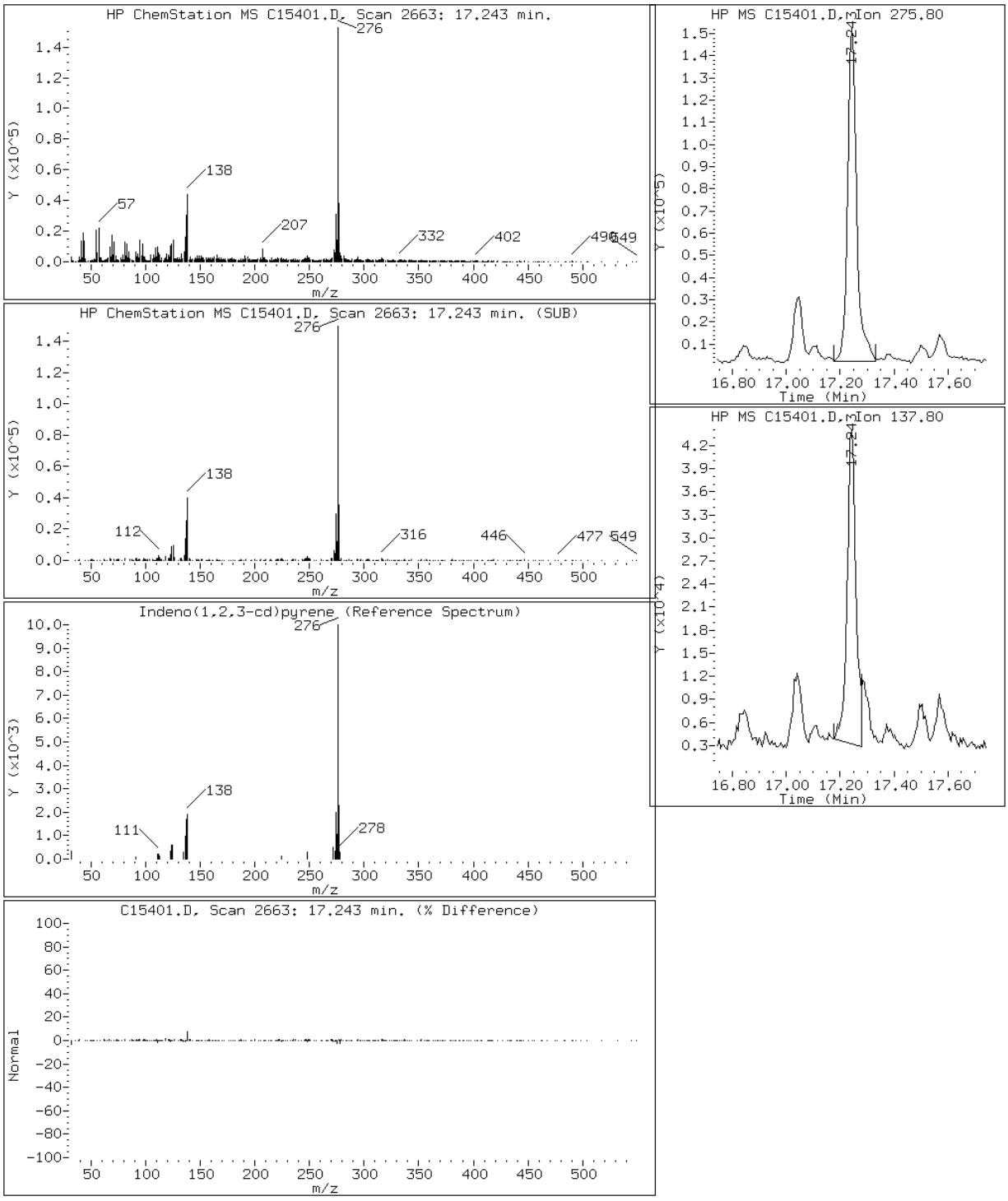
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



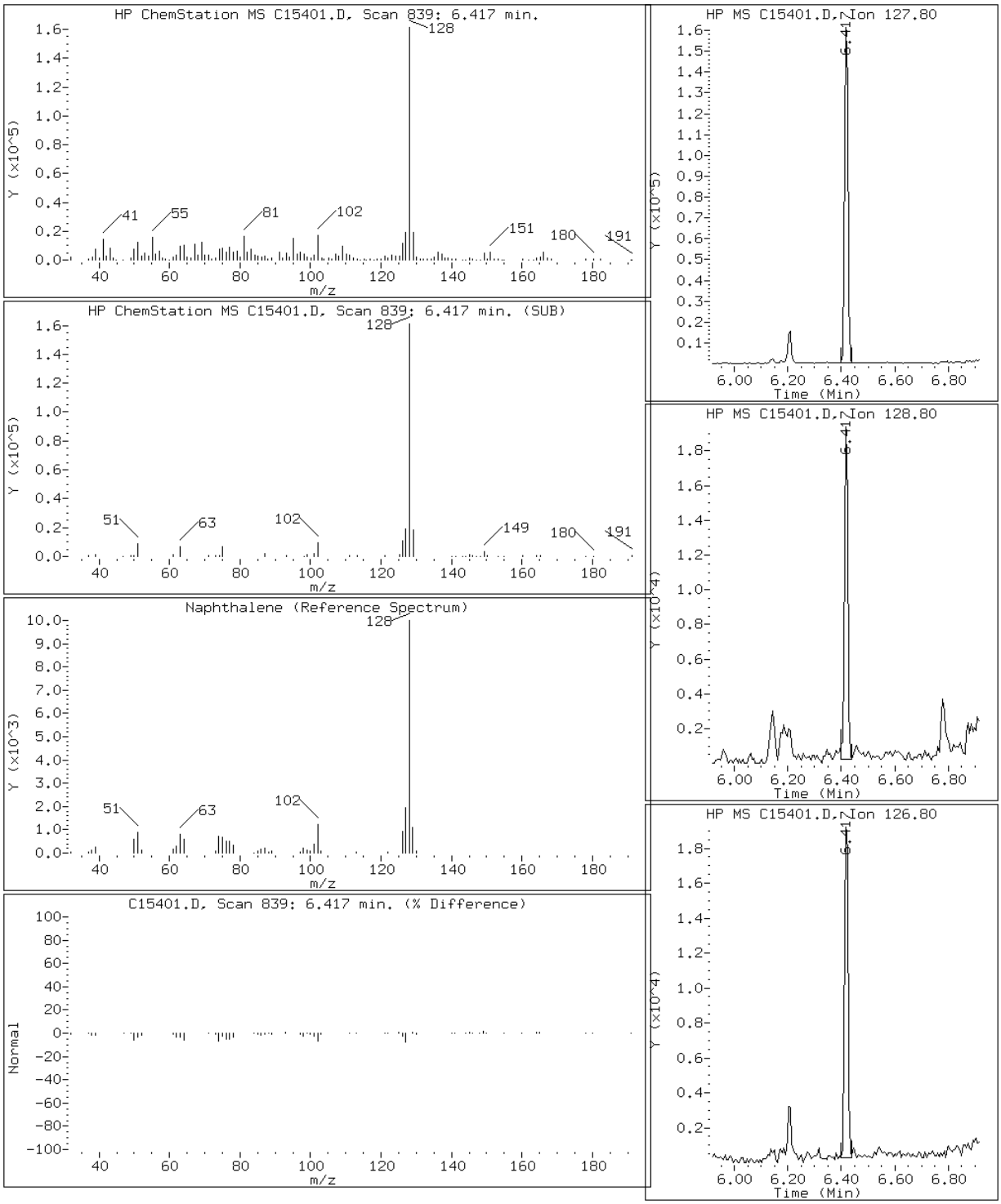
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

30 Naphthalene



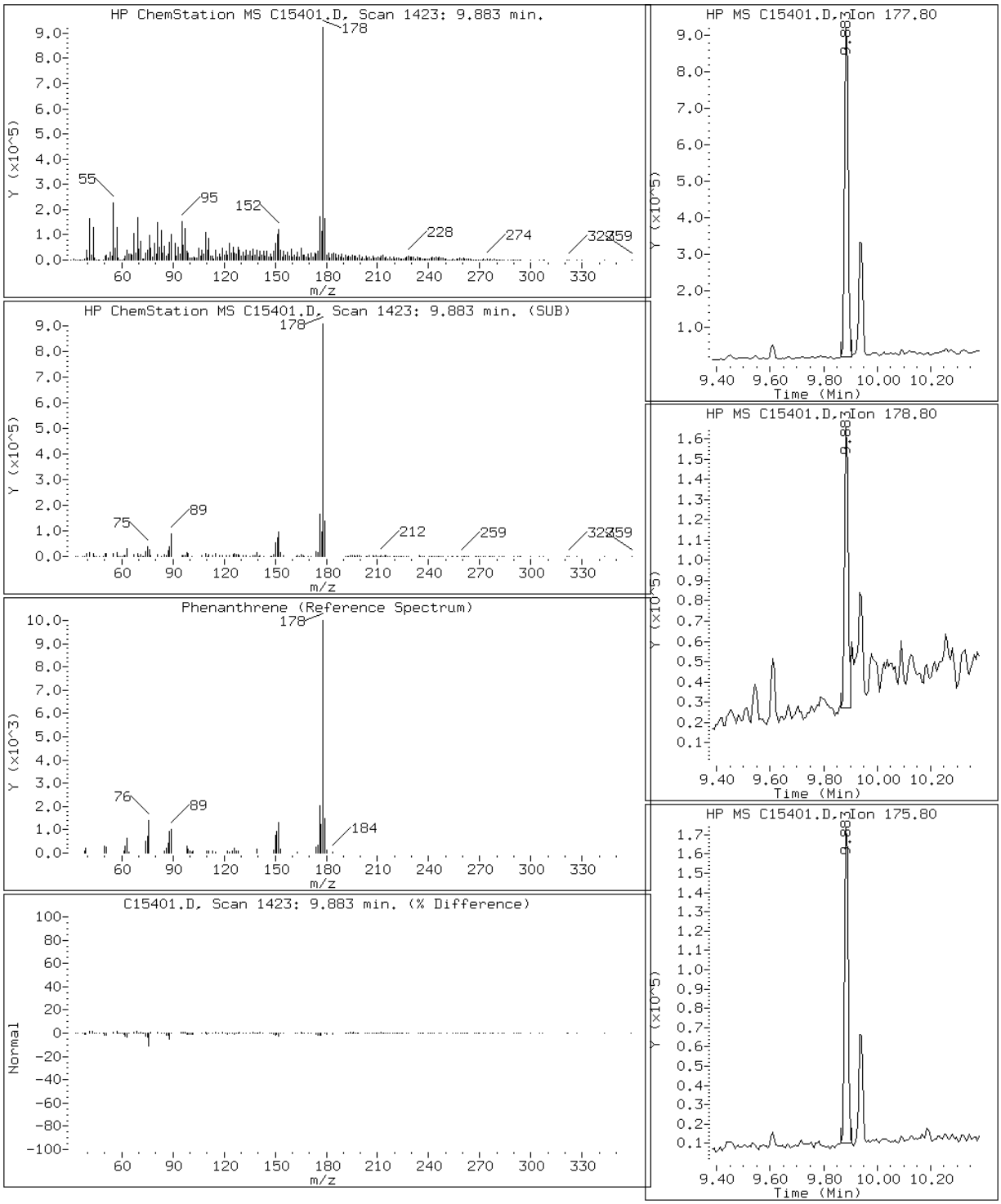
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

64 Phenanthrene



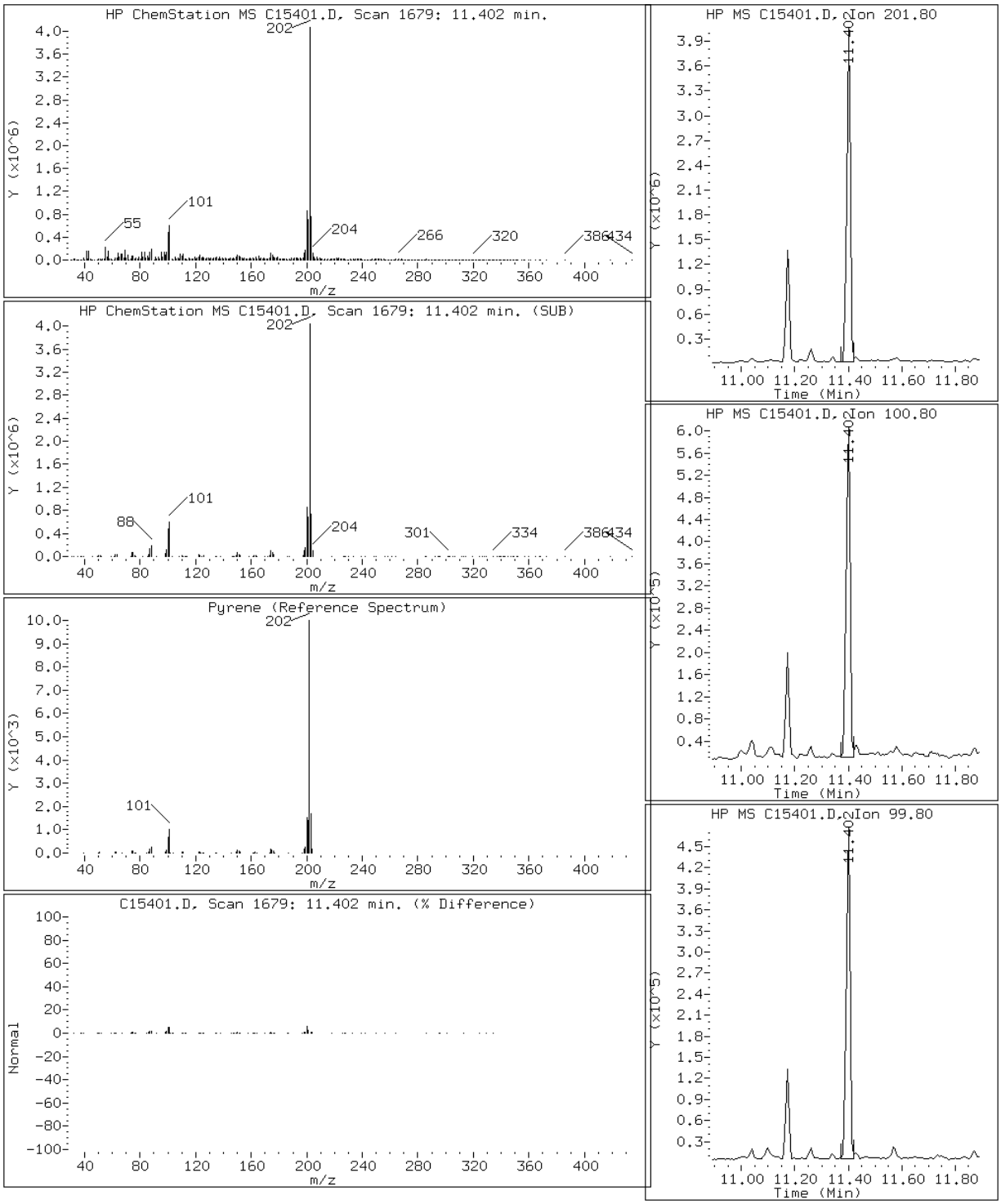
Data File: C15401.D

Date: 22-DEC-2009 17:14

Client ID: PBL-2-30-N(10') Instrument: msc.i

Sample Info: 220-11066-A-10-B Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') F.D. | Lab Sample ID: 220-11066-11

Matrix: Solid | Lab File ID: C15402.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:00

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.23(g) | Date Analyzed: 12/22/2009 17:44

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	330	U	330	22
95-95-4	2,4,5-Trichlorophenol	2100	U	2100	17
88-06-2	2,4,6-Trichlorophenol	330	U	330	9.1
120-83-2	2,4-Dichlorophenol	330	U	330	18
105-67-9	2,4-Dimethylphenol	330	U	330	16
121-14-2	2,4-Dinitrotoluene	330	U	330	26
51-28-5	2,4-Dinitrophenol	2100	U	2100	100
606-20-2	2,6-Dinitrotoluene	330	U	330	9.7
91-58-7	2-Chloronaphthalene	330	U	330	14
95-57-8	2-Chlorophenol	330	U	330	19
91-57-6	2-Methylnaphthalene	74	J	330	9.5
95-48-7	2-Methylphenol	330	U	330	20
88-74-4	2-Nitroaniline	820	U	820	20
88-75-5	2-Nitrophenol	330	U	330	21
91-94-1	3,3'-Dichlorobenzidine	410	U	410	68
99-09-2	3-Nitroaniline	820	U	820	11
534-52-1	4,6-Dinitro-2-methylphenol	2100	U	2100	140
101-55-3	4-Bromophenyl phenyl ether	330	U	330	21
59-50-7	4-Chloro-3-methylphenol	330	U	330	14
106-47-8	4-Chloroaniline	330	U	330	54
7005-72-3	4-Chlorophenyl phenyl ether	330	U	330	24
106-44-5	4-Methylphenol	330	U	330	22
100-01-6	4-Nitroaniline	330	U	330	25
100-02-7	4-Nitrophenol	2100	U	2100	25
83-32-9	Acenaphthene	33	J	330	20
208-96-8	Acenaphthylene	70	J	330	16
98-86-2	Acetophenone	330	U	330	17
120-12-7	Anthracene	130	J	330	13
1912-24-9	Atrazine	410	U	410	21
100-52-7	Benzaldehyde	330	U	330	55
56-55-3	Benzo[a]anthracene	400		330	12
50-32-8	Benzo[a]pyrene	540		330	9.0
205-99-2	Benzo[b]fluoranthene	570		330	8.8
191-24-2	Benzo[g,h,i]perylene	250	J	330	22

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') F.D. | Lab Sample ID: 220-11066-11

Matrix: Solid | Lab File ID: C15402.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:00

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.23(g) | Date Analyzed: 12/22/2009 17:44

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	230	J	330	30
111-91-1	Bis(2-chloroethoxy)methane	330	U	330	15
111-44-4	Bis(2-chloroethyl)ether	330	U	330	17
117-81-7	Bis(2-ethylhexyl) phthalate	140	J B	330	32
85-68-7	Butyl benzyl phthalate	330	U	330	19
105-60-2	Caprolactam	330	U	330	26
86-74-8	Carbazole	34	J	330	18
218-01-9	Chrysene	430		330	24
84-74-2	Di-n-butyl phthalate	330	U	330	48
117-84-0	Di-n-octyl phthalate	330	U	330	19
53-70-3	Dibenz(a,h)anthracene	67	J	330	26
132-64-9	Dibenzofuran	24	J	330	23
84-66-2	Diethyl phthalate	330	U	330	33
131-11-3	Dimethyl phthalate	330	U	330	19
206-44-0	Fluoranthene	540		330	16
86-73-7	Fluorene	53	J	330	20
118-74-1	Hexachlorobenzene	330	U	330	23
87-68-3	Hexachlorobutadiene	330	U	330	26
77-47-4	Hexachlorocyclopentadiene	820	U	820	160
67-72-1	Hexachloroethane	330	U	330	19
193-39-5	Indeno[1,2,3-cd]pyrene	270	J	330	22
78-59-1	Isophorone	330	U	330	18
621-64-7	N-Nitrosodi-n-propylamine	330	U	330	22
86-30-6	N-Nitrosodiphenylamine	330	U	330	19
91-20-3	Naphthalene	100	J	330	17
98-95-3	Nitrobenzene	330	U	330	21
87-86-5	Pentachlorophenol	820	U	820	200
85-01-8	Phenanthrene	350		330	16
108-95-2	Phenol	330	U	330	22
129-00-0	Pyrene	1500		330	16
108-60-1	2,2'-oxybis[1-chloropropane]	330	U	330	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-30-N(10') F.D. | Lab Sample ID: 220-11066-11

Matrix: Solid | Lab File ID: C15402.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:00

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.23(g) | Date Analyzed: 12/22/2009 17:44

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	74	37-120	
321-60-8	2-Fluorobiphenyl	69	41-120	
367-12-4	2-Fluorophenol	67	34-120	
4165-60-0	Nitrobenzene-d5	69	38-120	
4165-62-2	Phenol-d5	67	36-120	
1718-51-0	Terphenyl-d14	76	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15402.D
Lab Smp Id: 220-11066-A-11-B Client Smp ID: PBL-2-30-N(10') F.D
Inj Date : 22-DEC-2009 17:44
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-11-B
Misc Info : 220-11066-A-11-B
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.230	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	19.850	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.021	5.021	(1.000)	294435	20.0000	
$	2 2-Fluorophenol	112	3.567	3.549	(0.710)	944364	50.5360	4100
$	3 Phenol-d5	99	4.677	4.671	(0.931)	1319707	50.4647	4100
*	20 Naphthalene-d8	136	6.392	6.398	(1.000)	1419514	20.0000	
$	21 Nitrobenzene-d5	82	5.627	5.627	(0.880)	905629	34.4665	2800
	30 Naphthalene	128	6.416	6.416	(1.004)	97027	1.26190	100
	34 2-Methylnaphthalene	142	7.164	7.164	(1.121)	47164	0.89835	74
*	35 Acenaphthene-d10	164	8.274	8.274	(1.000)	1021333	20.0000	
$	40 2-Fluorobiphenyl	172	7.567	7.567	(0.915)	2138303	34.6840	2800
	43 Acenaphthylene	152	8.119	8.119	(0.981)	77240	0.85241	70
	46 Acenaphthene	153	8.309	8.309	(1.004)	21892	0.39796	33
	49 Dibenzofuran	168	8.493	8.493	(1.027)	23783	0.29369	24
	52 Fluorene	166	8.861	8.861	(1.071)	43233	0.65221	53
$	56 2,4,6-Tribromophenol	330	9.117	9.117	(1.102)	519199	55.7751	4600
*	57 Phenanthrene-d10	188	9.859	9.852	(1.000)	1699569	20.0000	
	64 Phenanthrene	178	9.882	9.882	(1.002)	407170	4.24760	350
	65 Carbazole	167	10.108	10.108	(1.025)	39575	0.41506	34
	66 Anthracene	178	9.936	9.936	(1.008)	153297	1.53980	130

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)	
	68 Fluoranthene	202	11.158	11.146	(1.132)	725884	6.56665	540	
*	70 Chrysene-d12	240	12.808	12.808	(1.000)	1792873	20.0000		(H)
	72 Pyrene	202	11.396	11.390	(0.890)	1952263	18.2751	1500	
$	73 Terphenyl-d14	244	11.568	11.562	(0.903)	2829855	37.9363	3100	
	76 Benzo(a)anthracene	228	12.796	12.796	(0.999)	493114	4.86311	400	
	77 Chrysene	228	12.844	12.850	(1.003)	509730	5.20379	430	
	78 Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	118576	1.75706	140	
*	79 Perylene-d12	264	15.129	15.129	(1.000)	1070447	20.0000		
	81 Benzo(b)fluoranthene	252	14.446	14.452	(0.955)	516910	6.97852	570	
	82 Benzo(k)fluoranthene	252	14.488	14.500	(0.958)	221742	2.74972	230	
	83 Benzo(a)pyrene	252	15.022	15.028	(0.993)	413022	6.54367	540	
	84 Indeno(1,2,3-cd)pyrene	276	17.236	17.242	(1.139)	181986	3.28541	270	
	85 Dibenzo(a,h)anthracene	278	17.295	17.301	(1.143)	48019	0.81596	67	
	86 Benzo(g,h,i)perylene	276	17.782	17.794	(1.175)	187015	3.10210	250	

QC Flag Legend

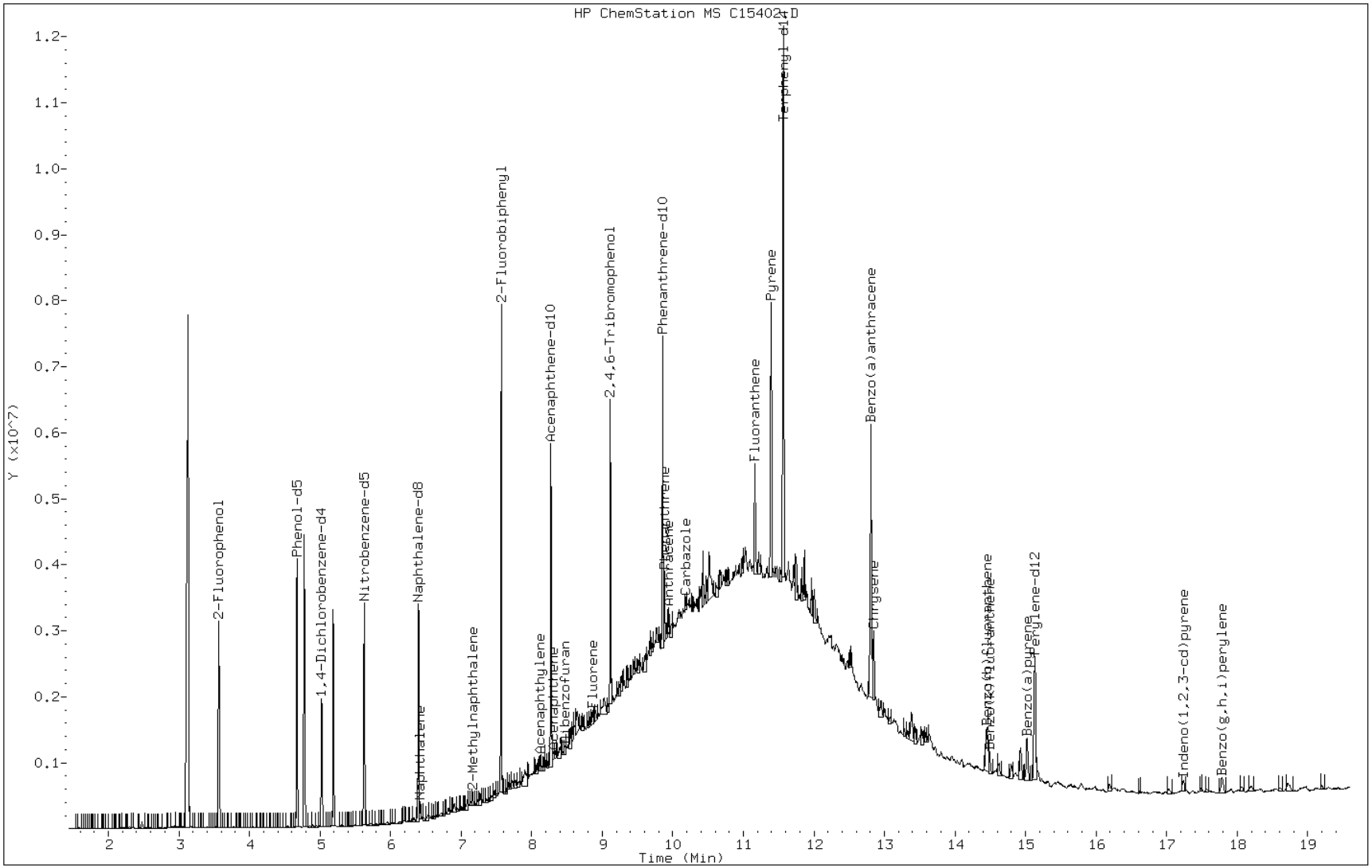
H - Operator selected an alternate compound hit.

Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas



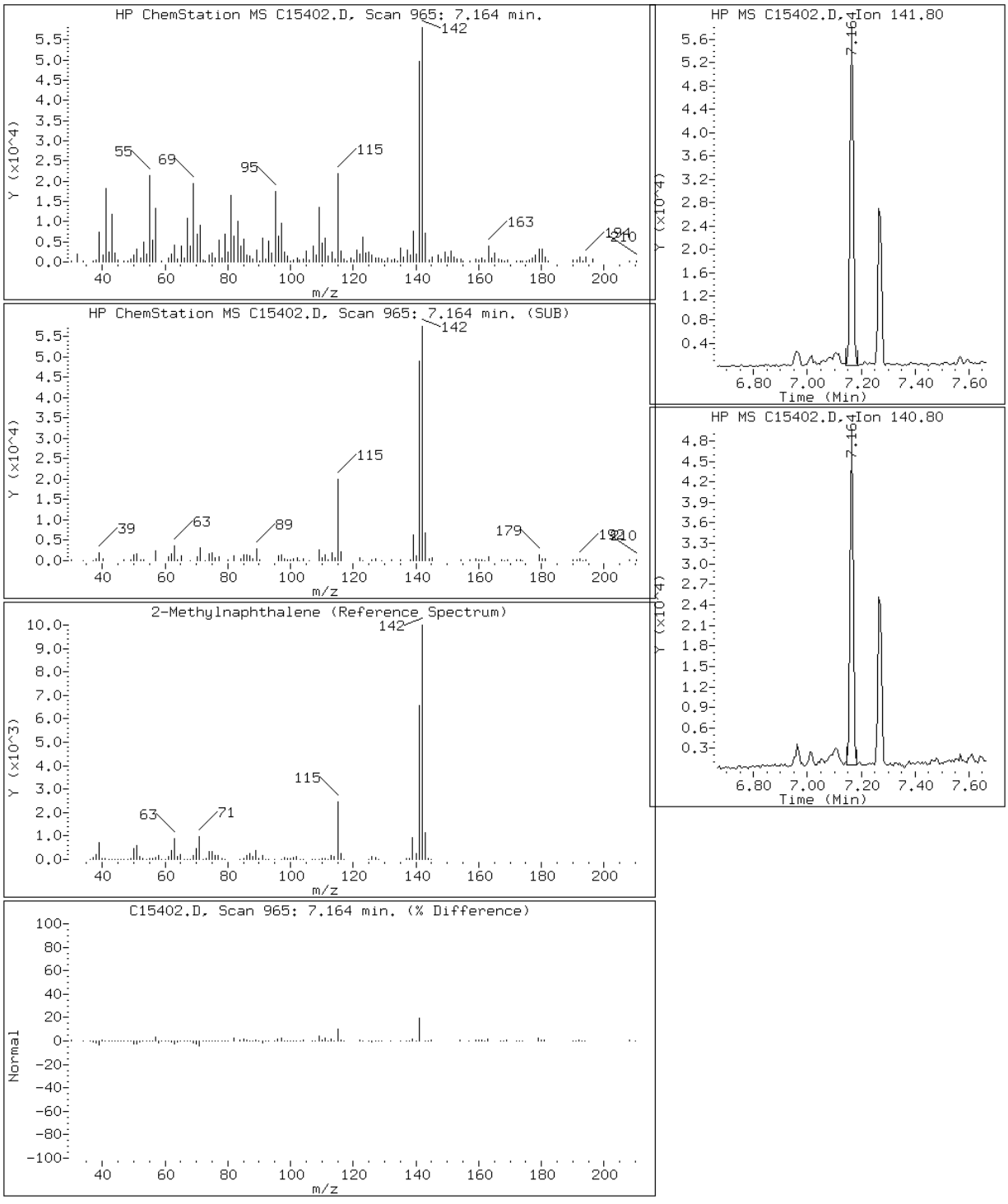
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

34 2-Methylnaphthalene



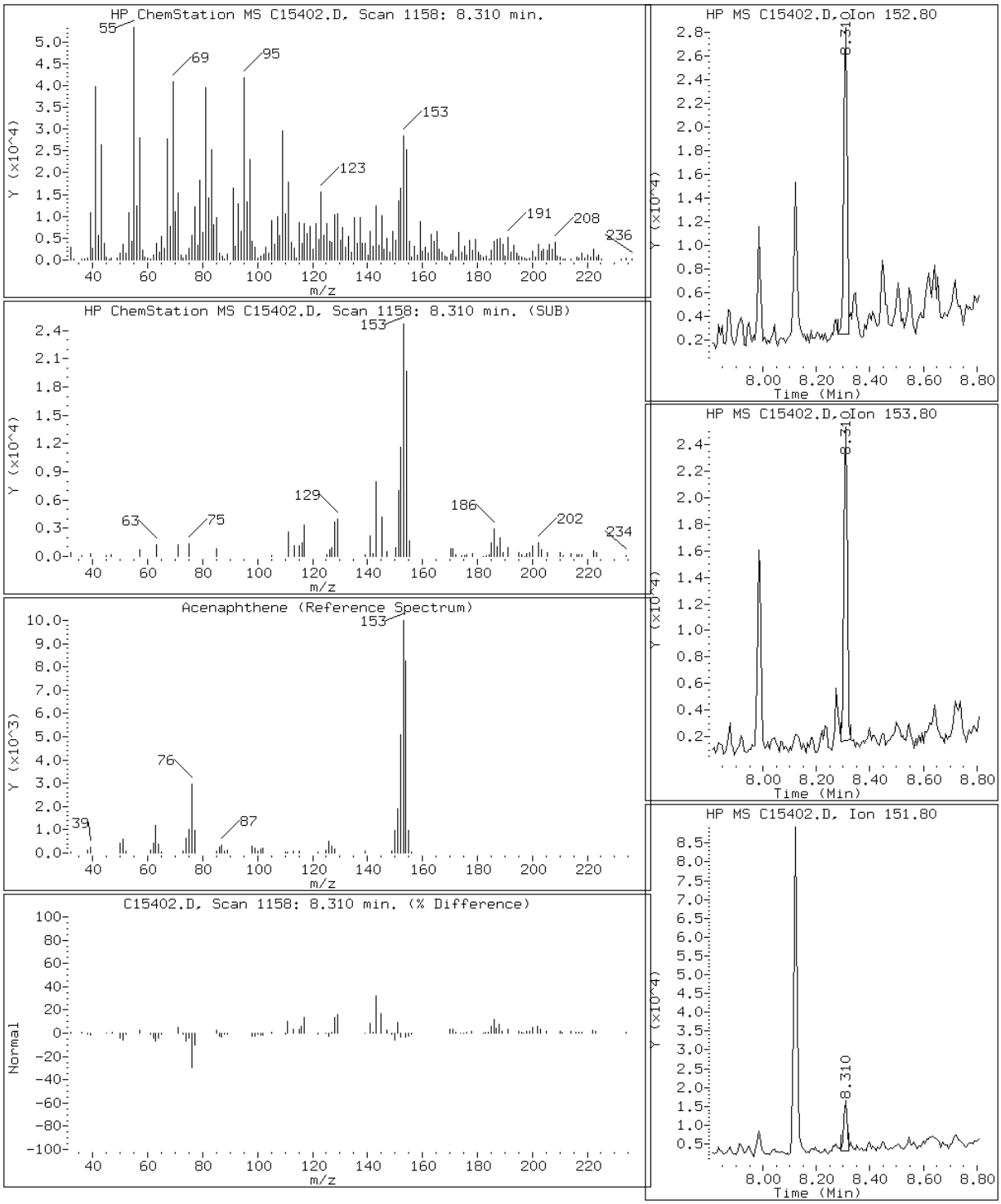
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

46 Acenaphthene



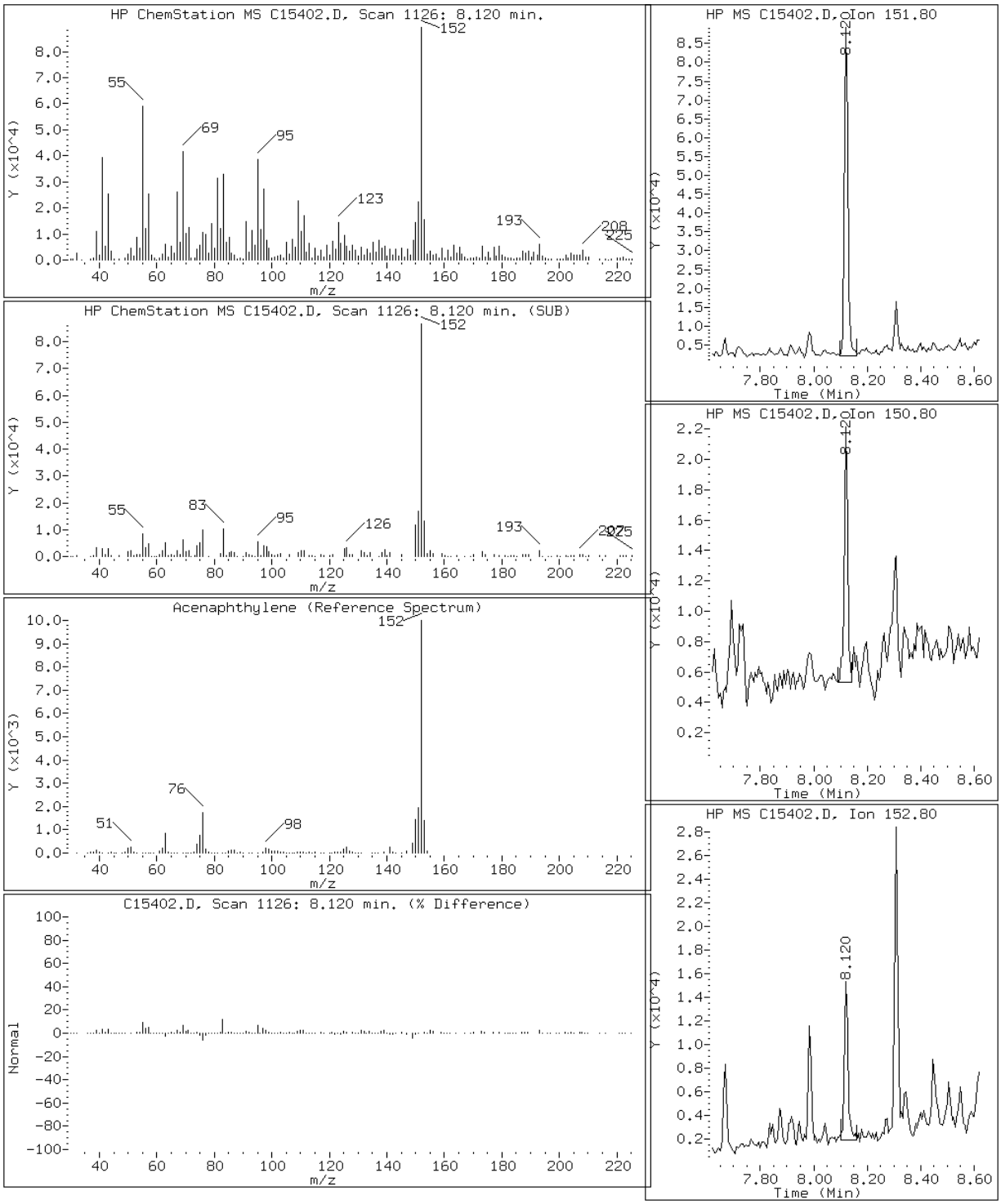
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

43 Acenaphthylene



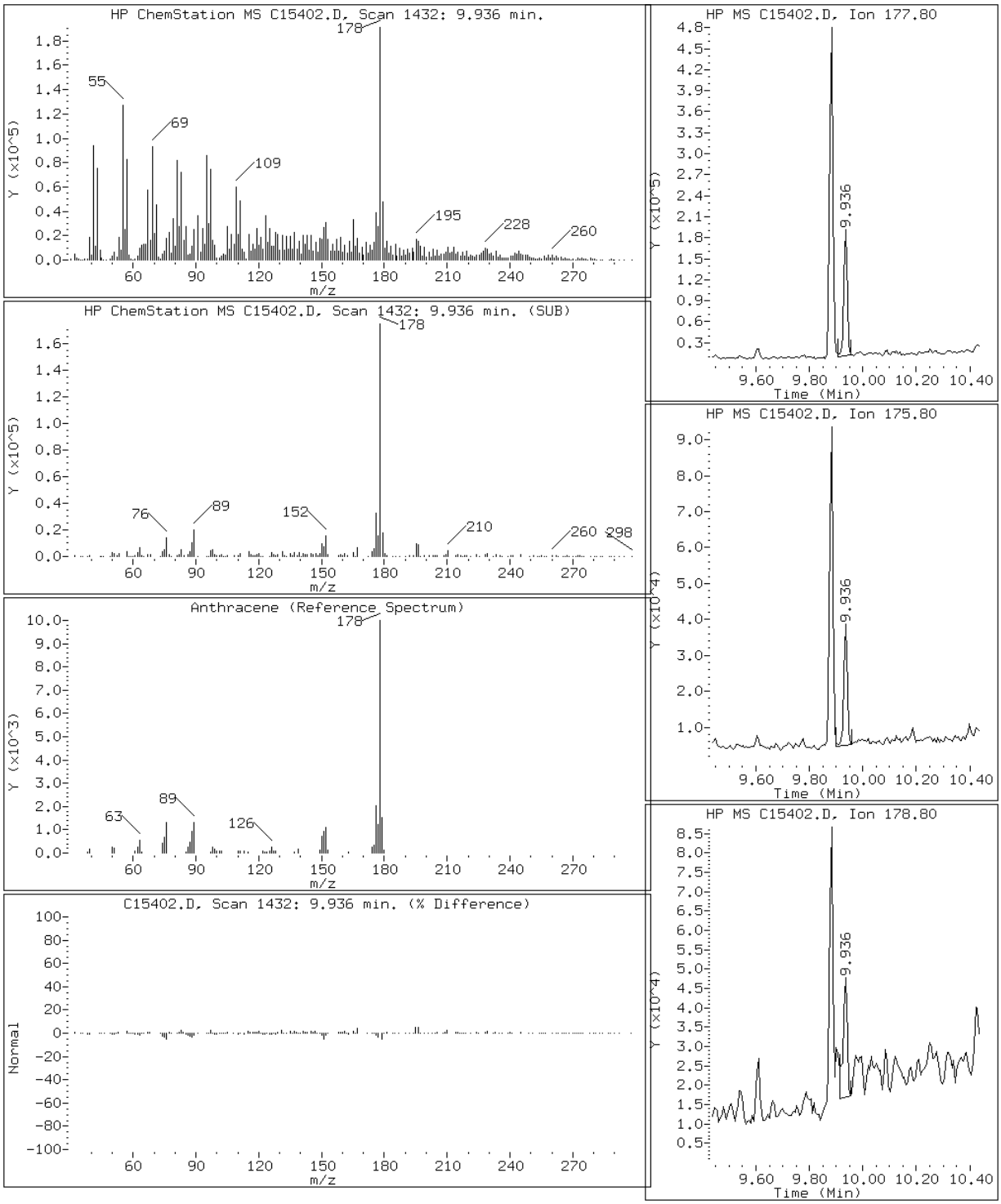
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

66 Anthracene



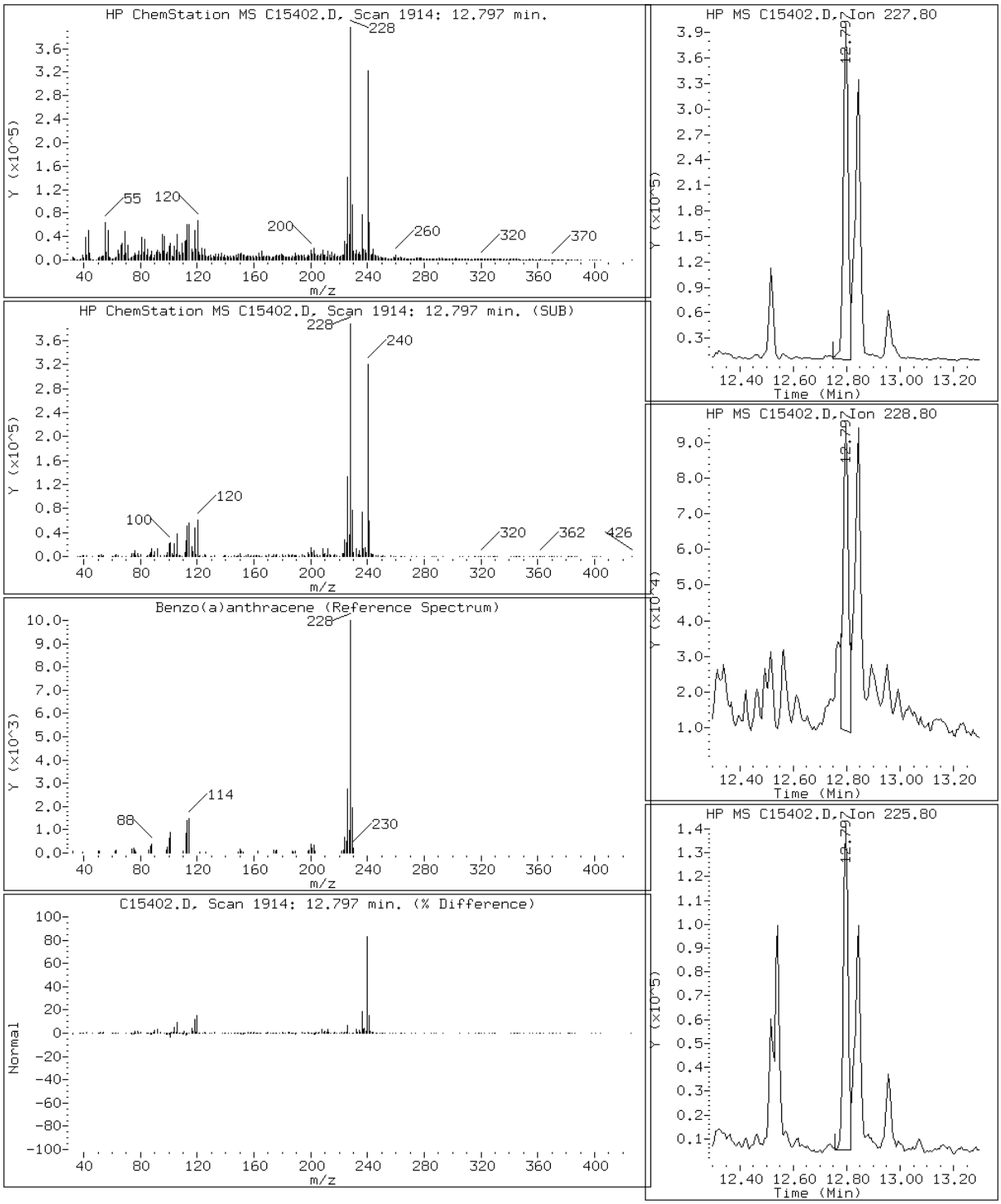
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

76 Benzo(a)anthracene



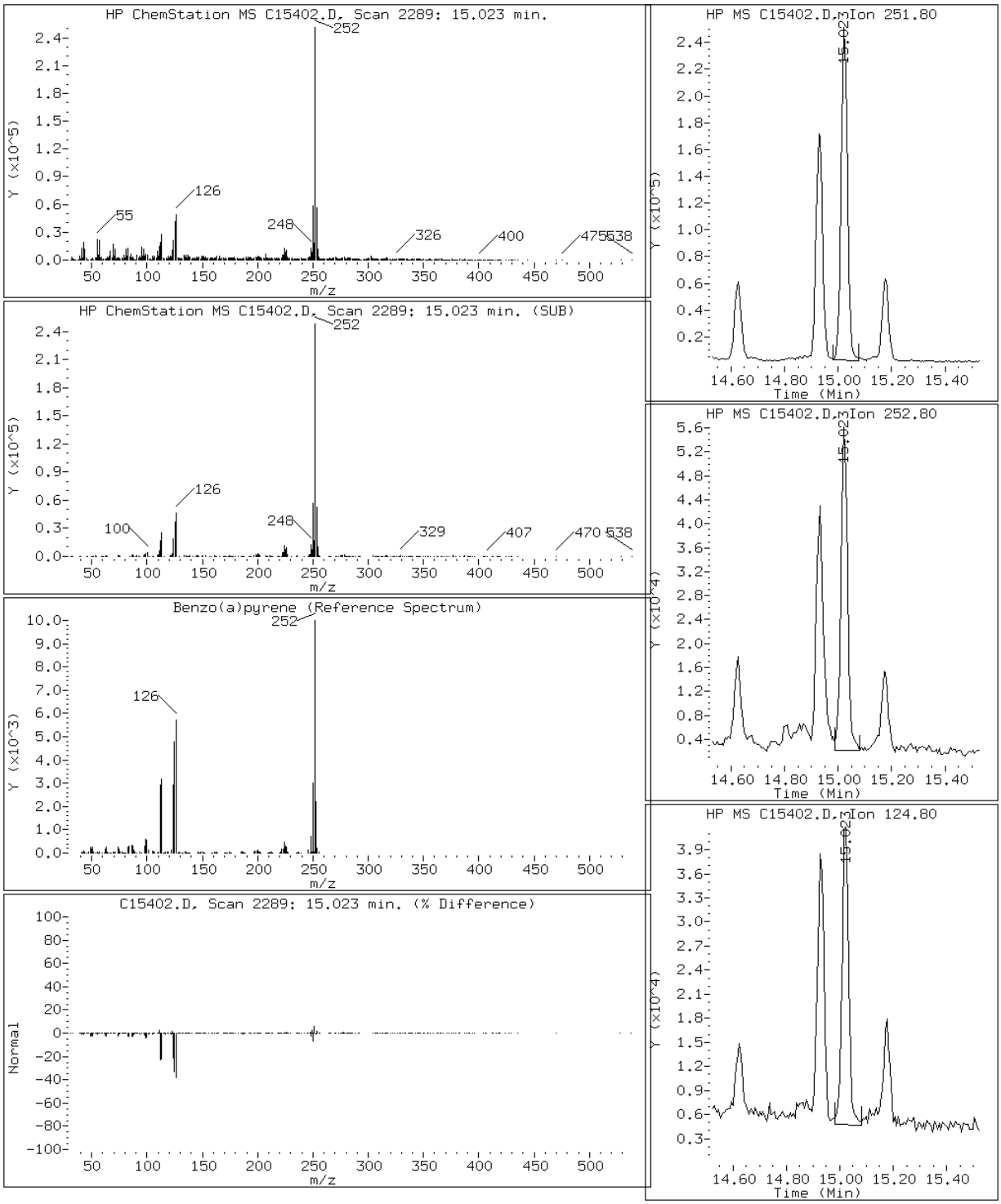
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

83 Benzo(a)pyrene



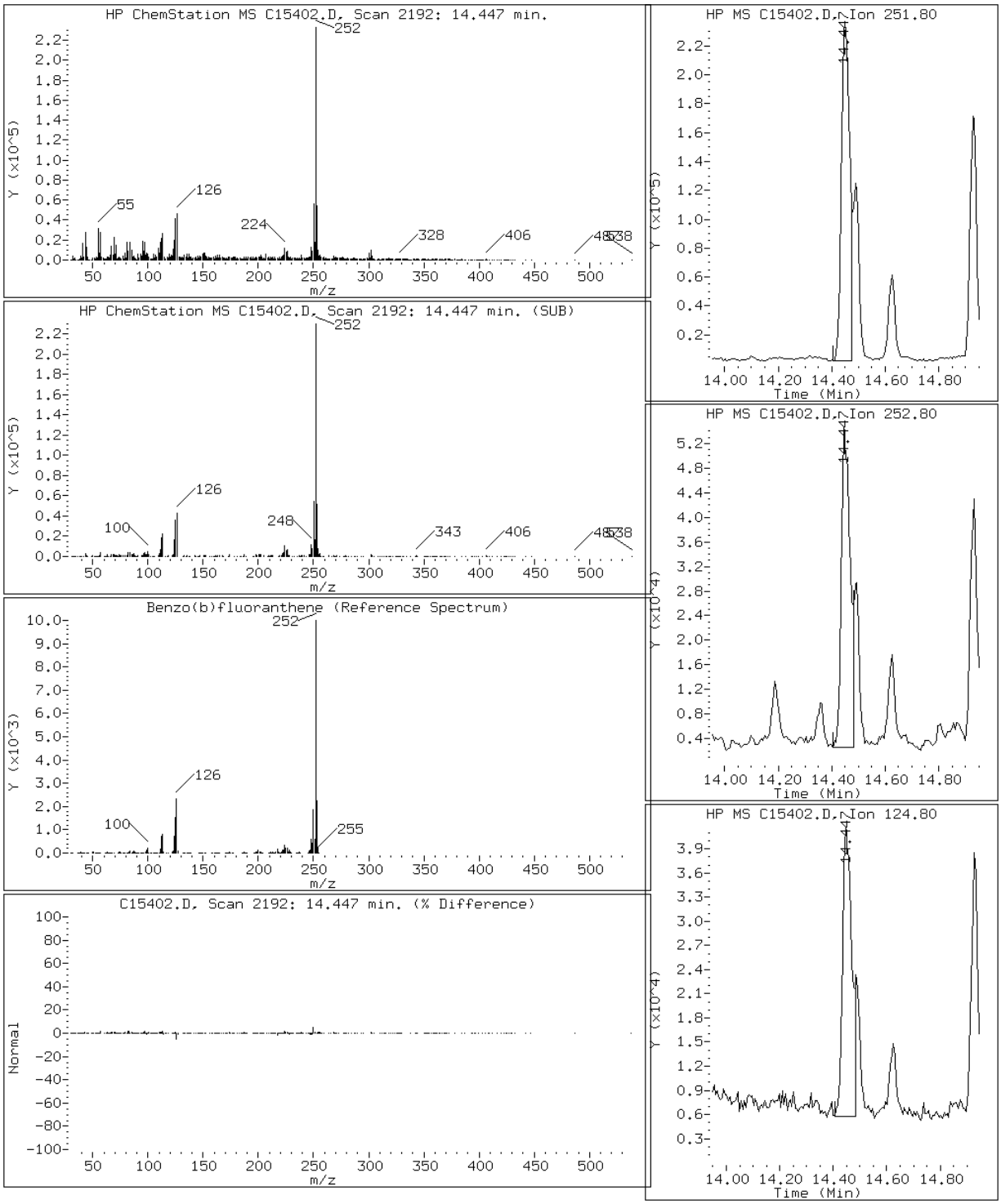
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

81 Benzo(b)fluoranthene



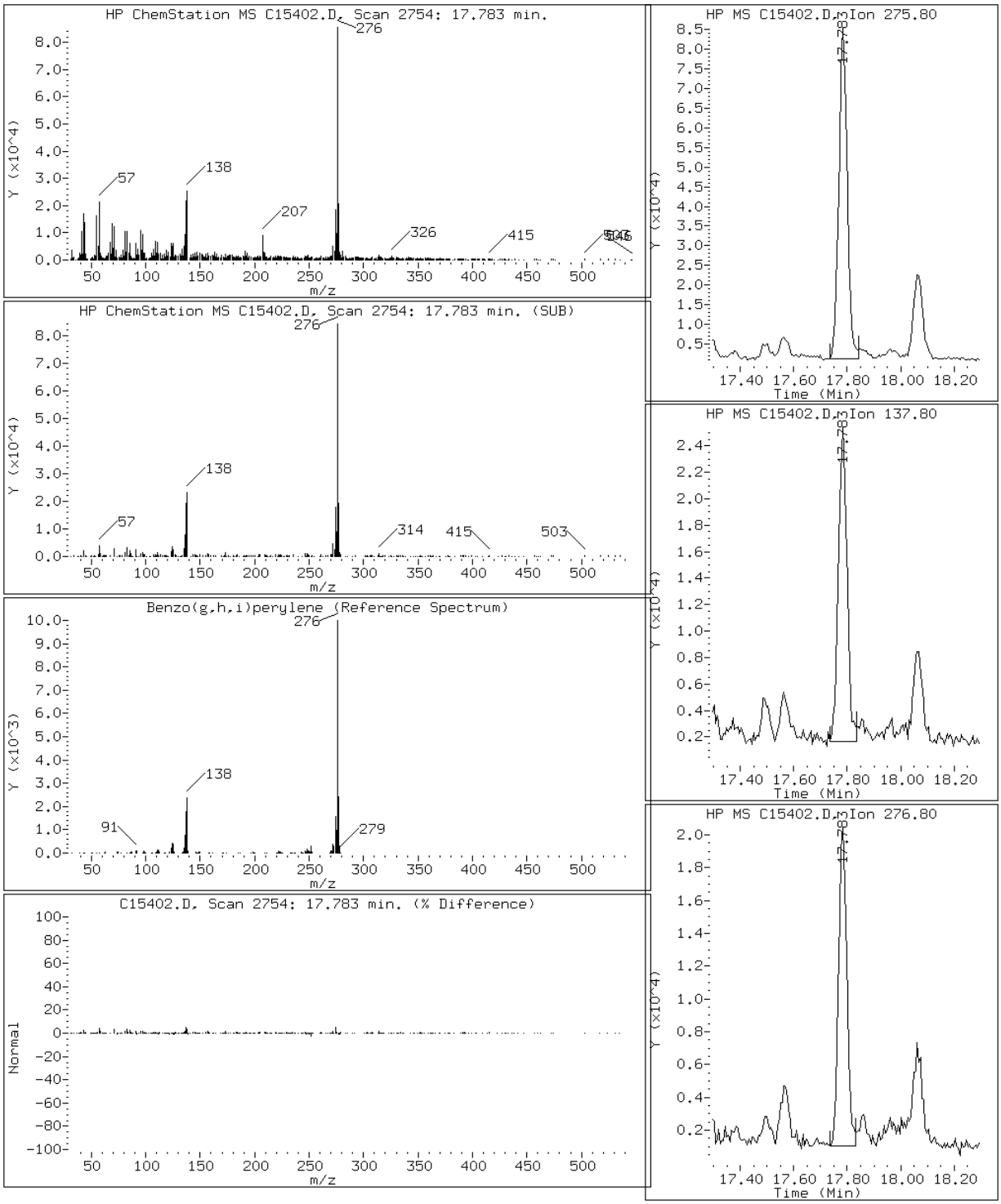
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

86 Benzo(g,h,i)perylene



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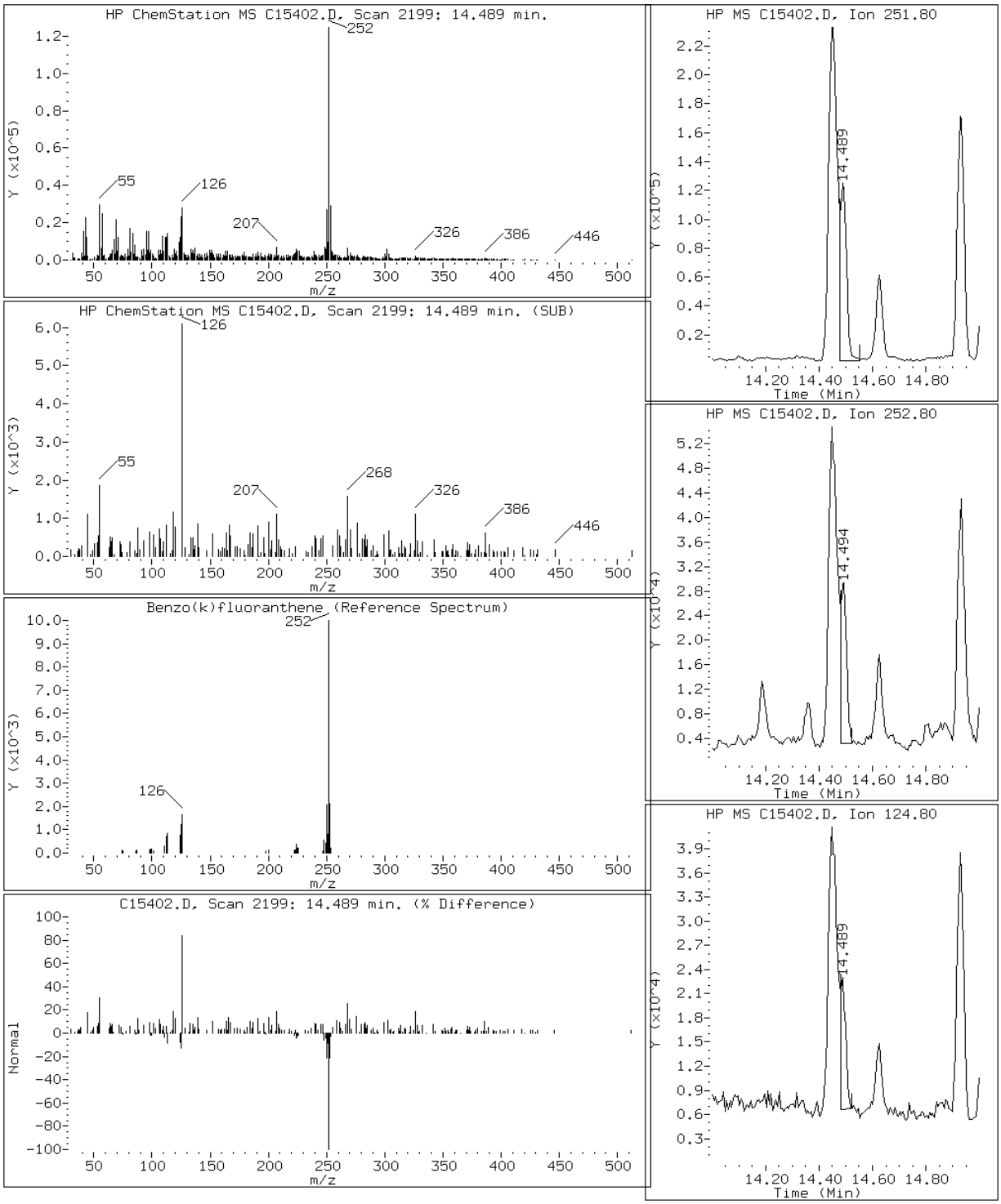
Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

82 Benzo(k)fluoranthene



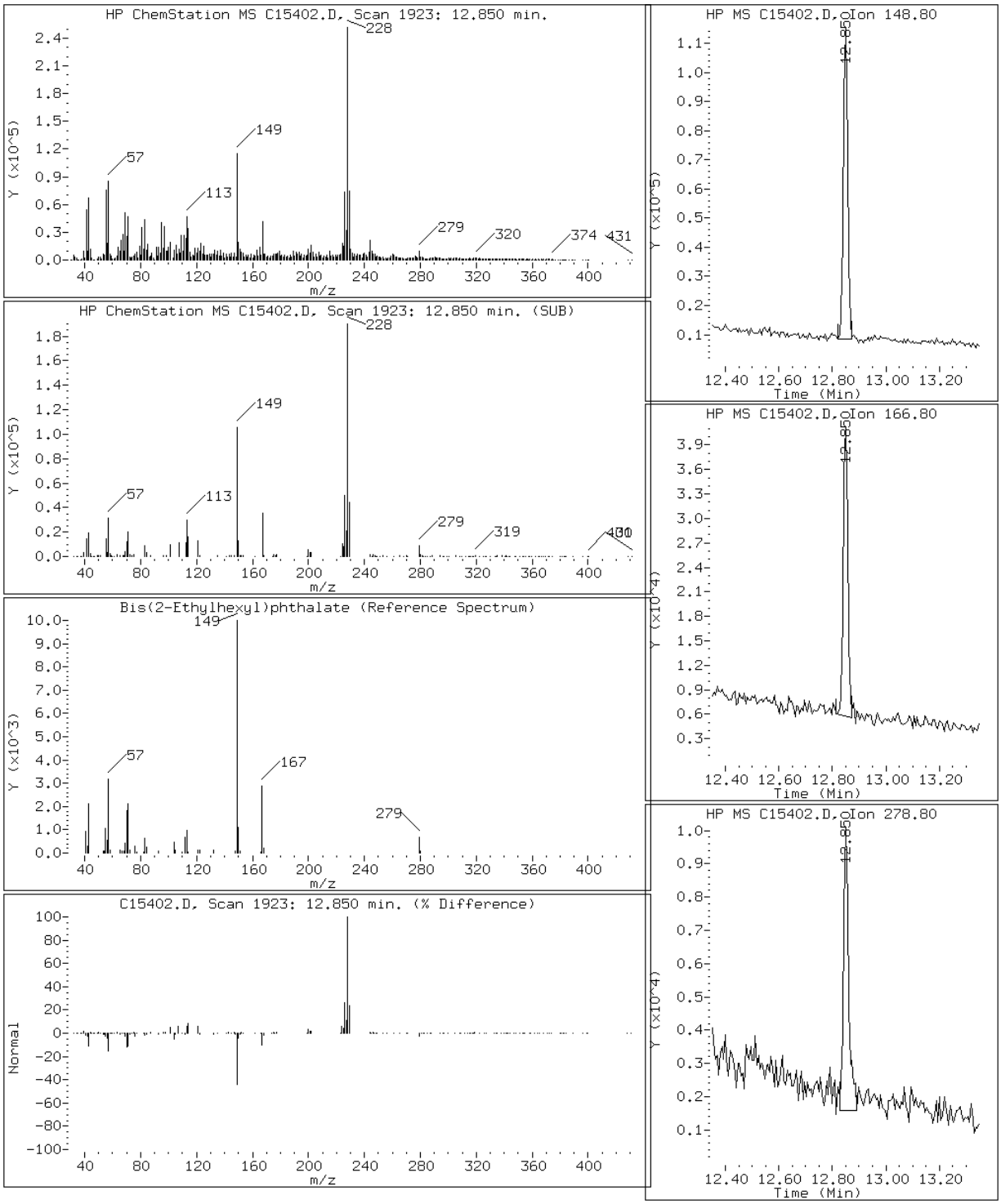
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



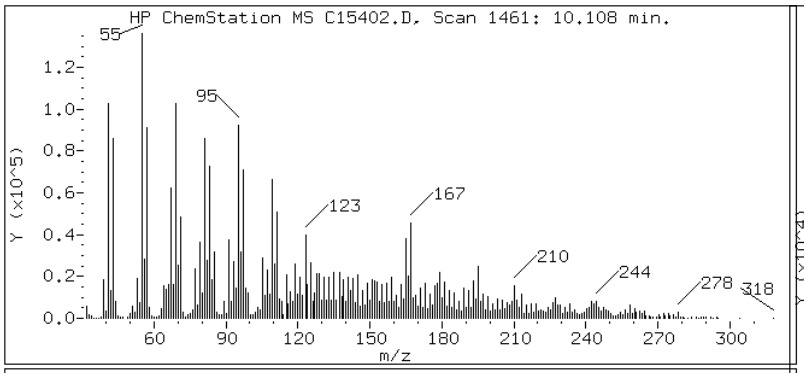
Data File: C15402.D

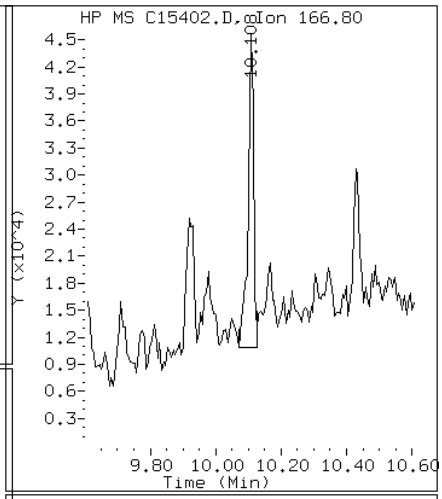
Date: 22-DEC-2009 17:44

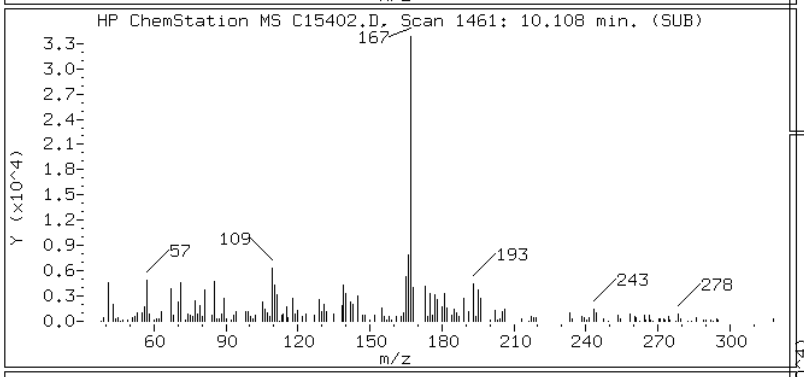
Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

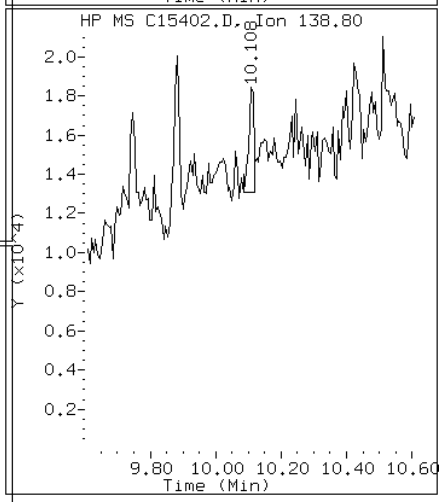
Sample Info: 220-11066-A-11-B Operator: S.Jonas

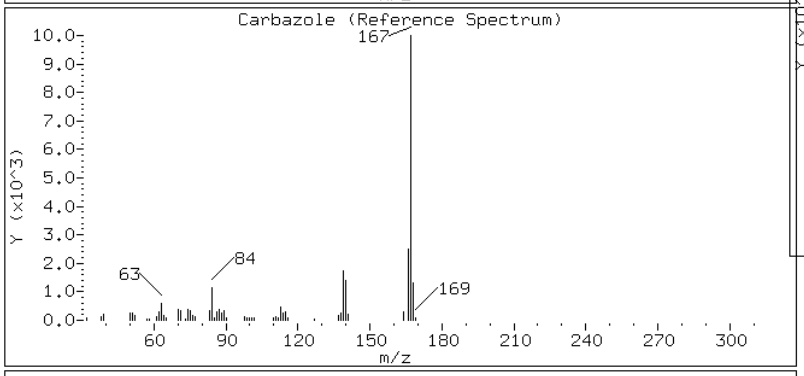
65 Carbazole

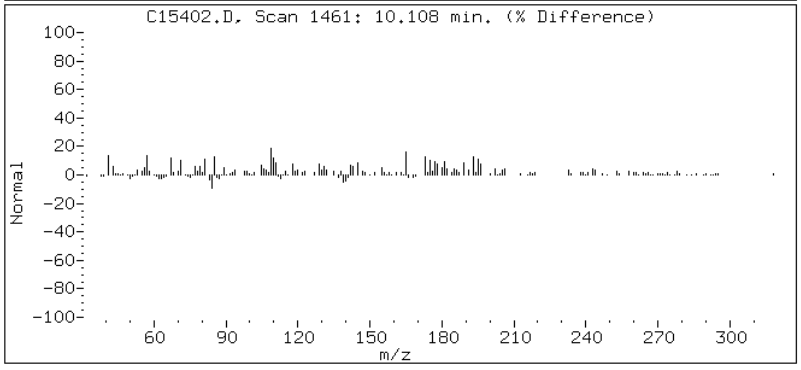












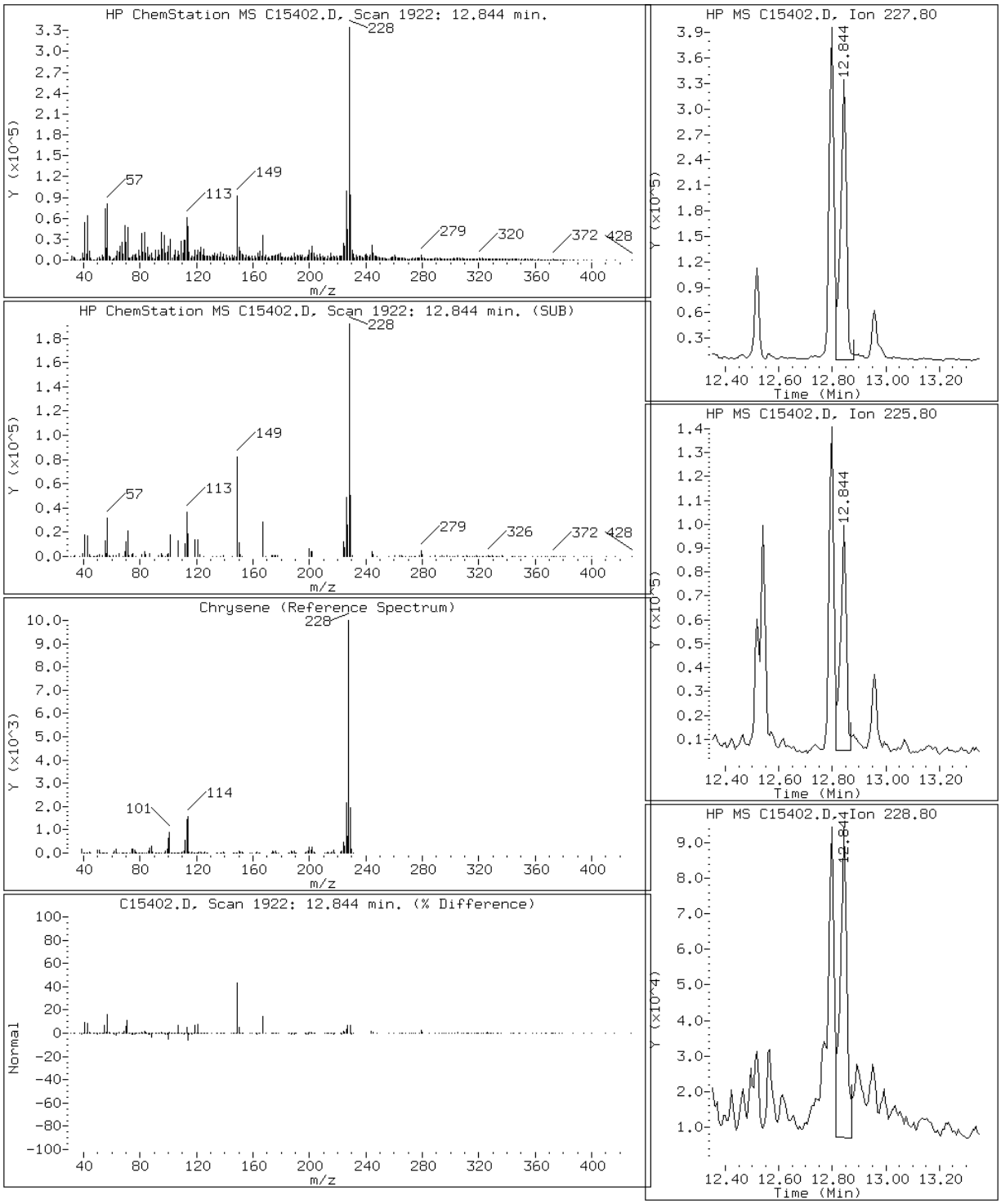
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

77 Chrysene



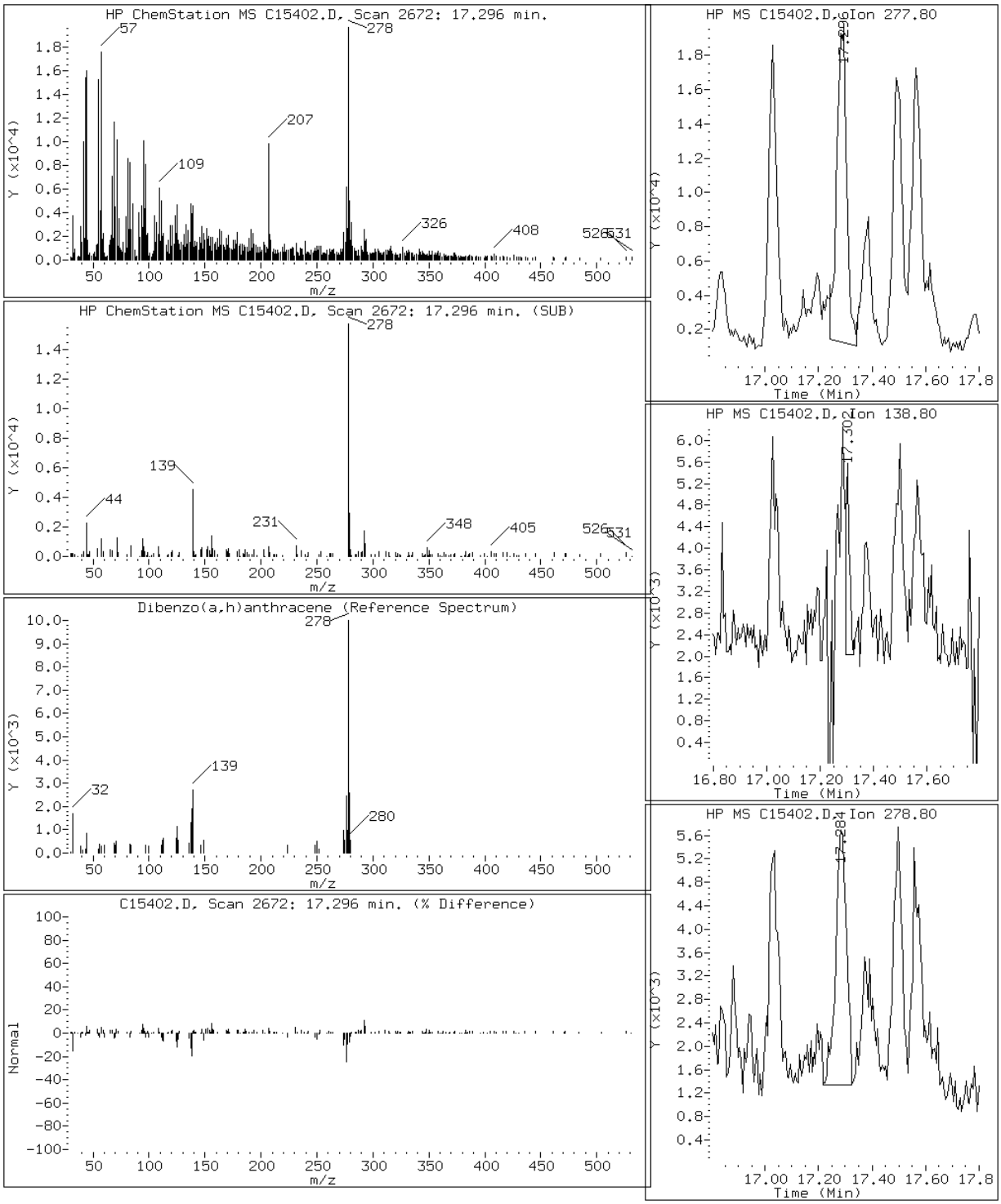
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

85 Dibenzo(a,h)anthracene



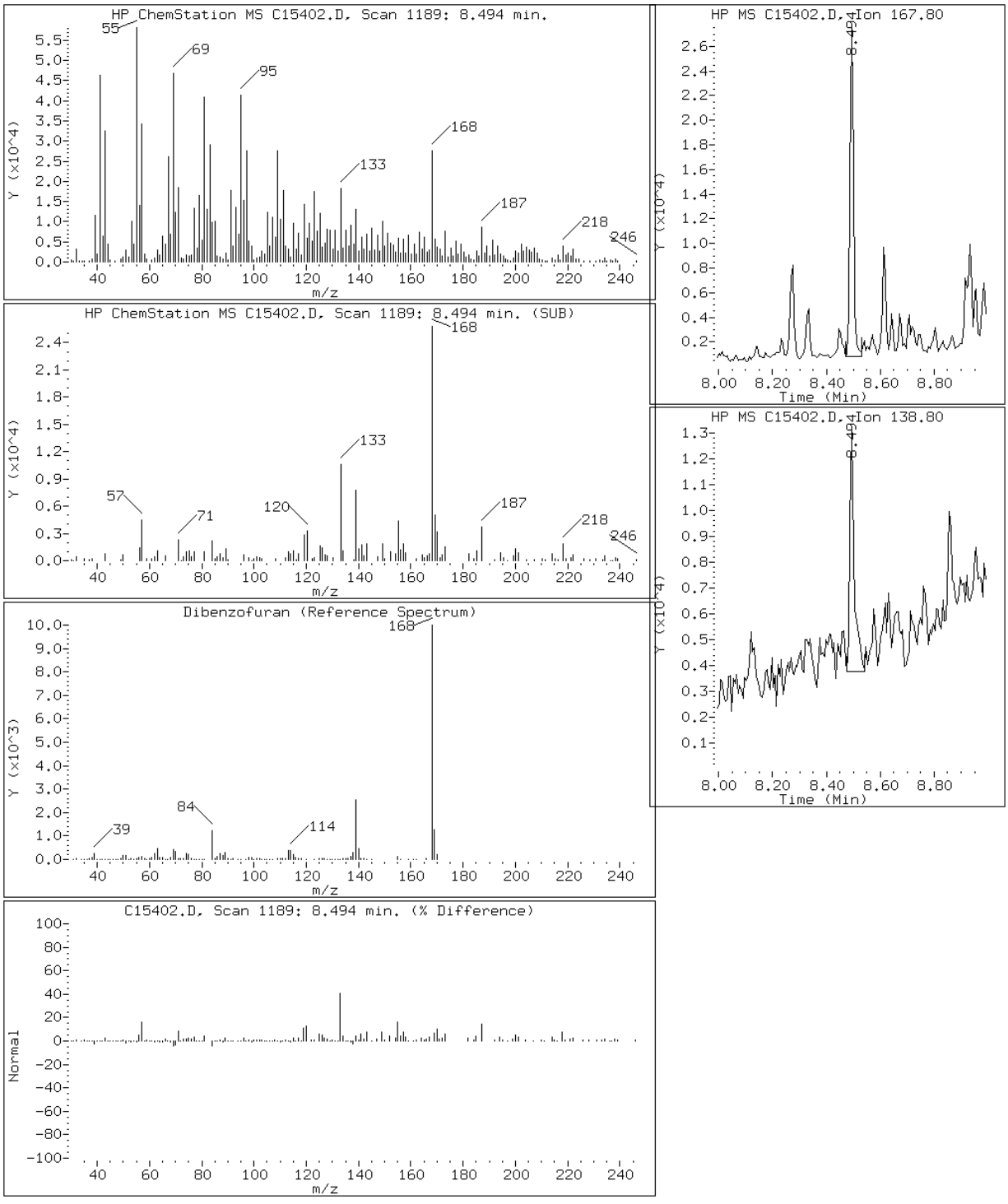
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

49 Dibenzofuran



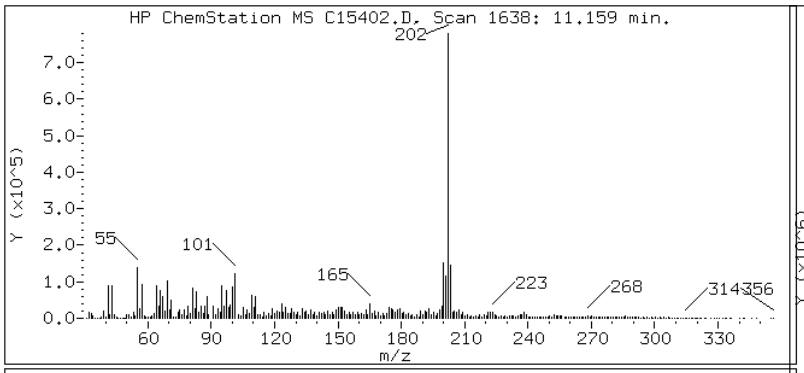
Data File: C15402.D

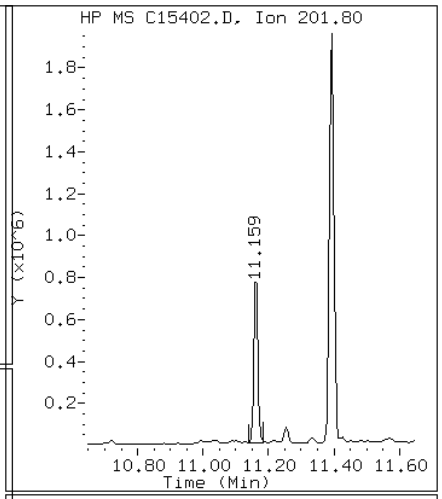
Date: 22-DEC-2009 17:44

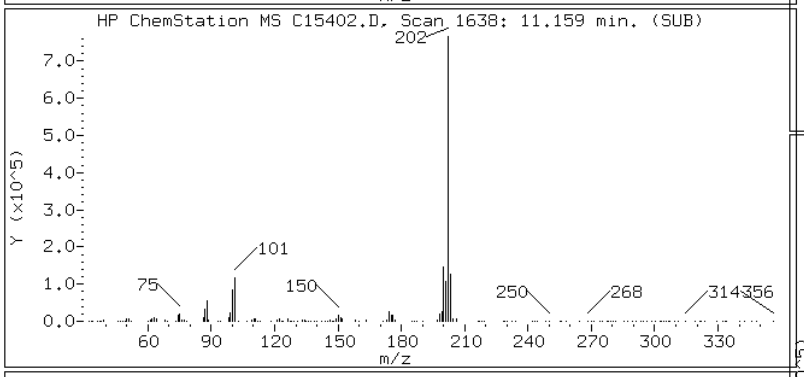
Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

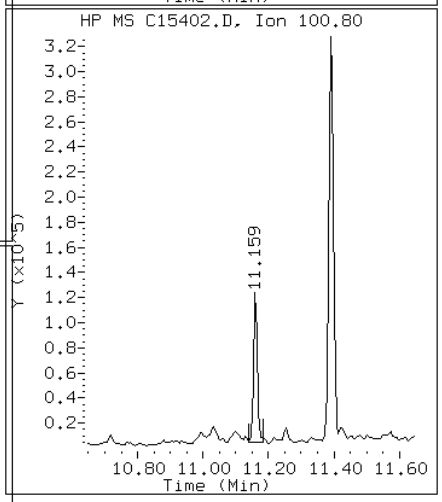
Sample Info: 220-11066-A-11-B Operator: S.Jonas

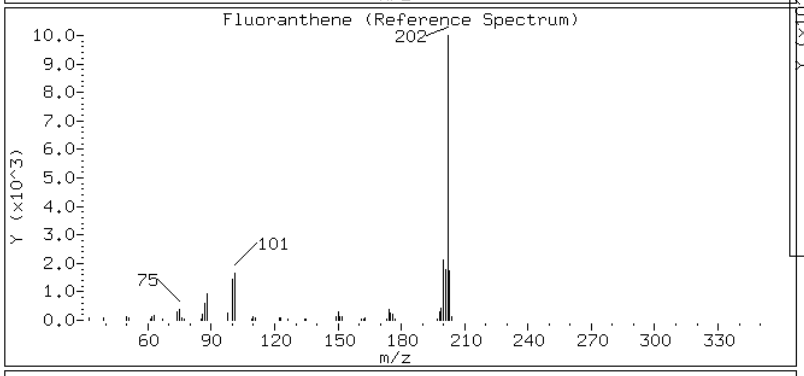
68 Fluoranthene

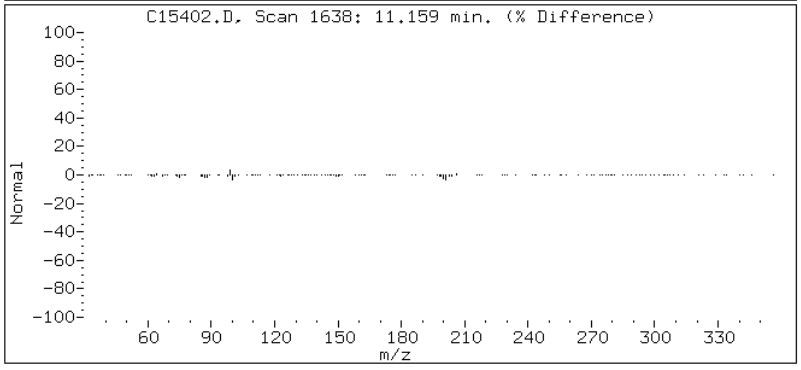












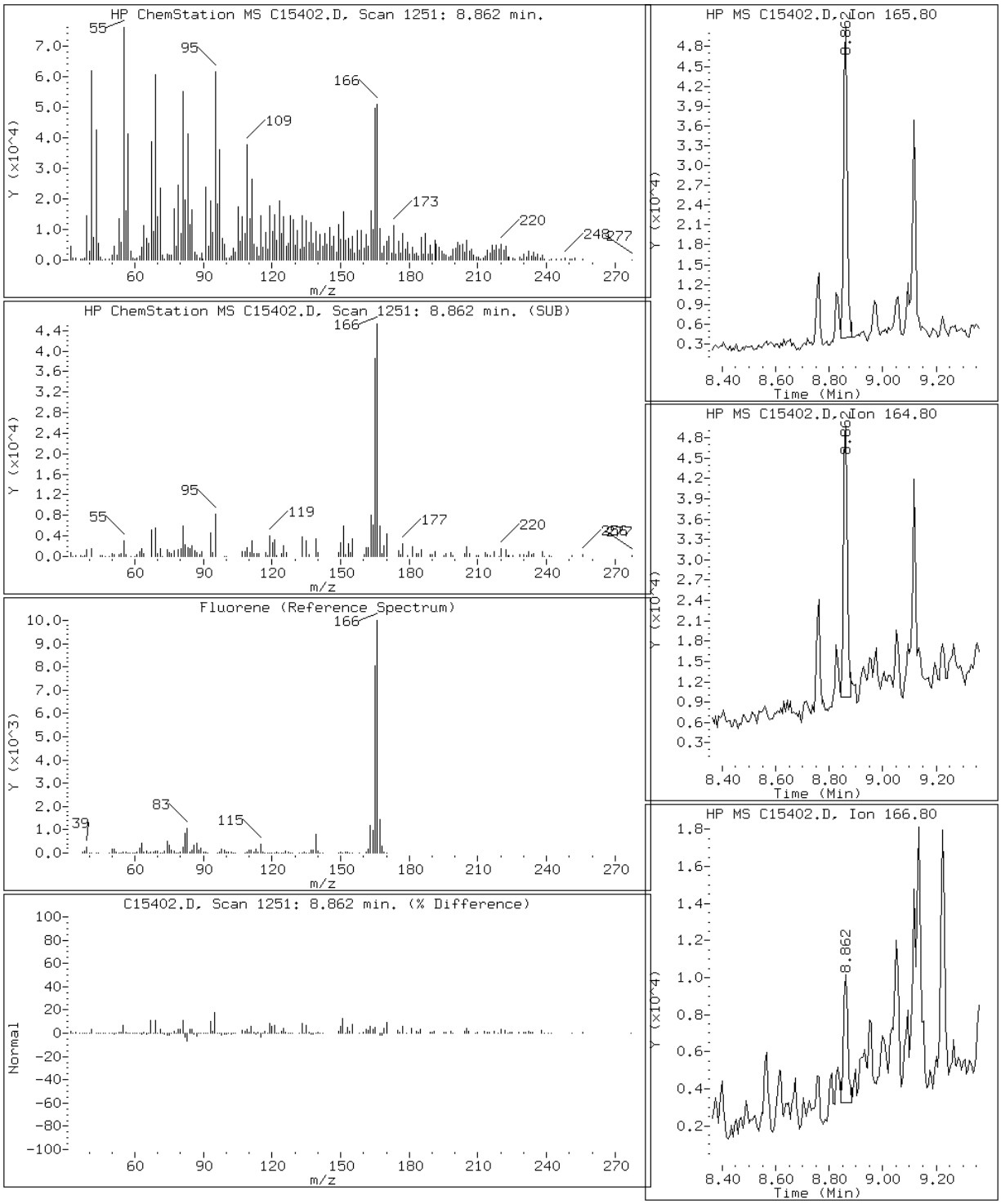
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

52 Fluorene



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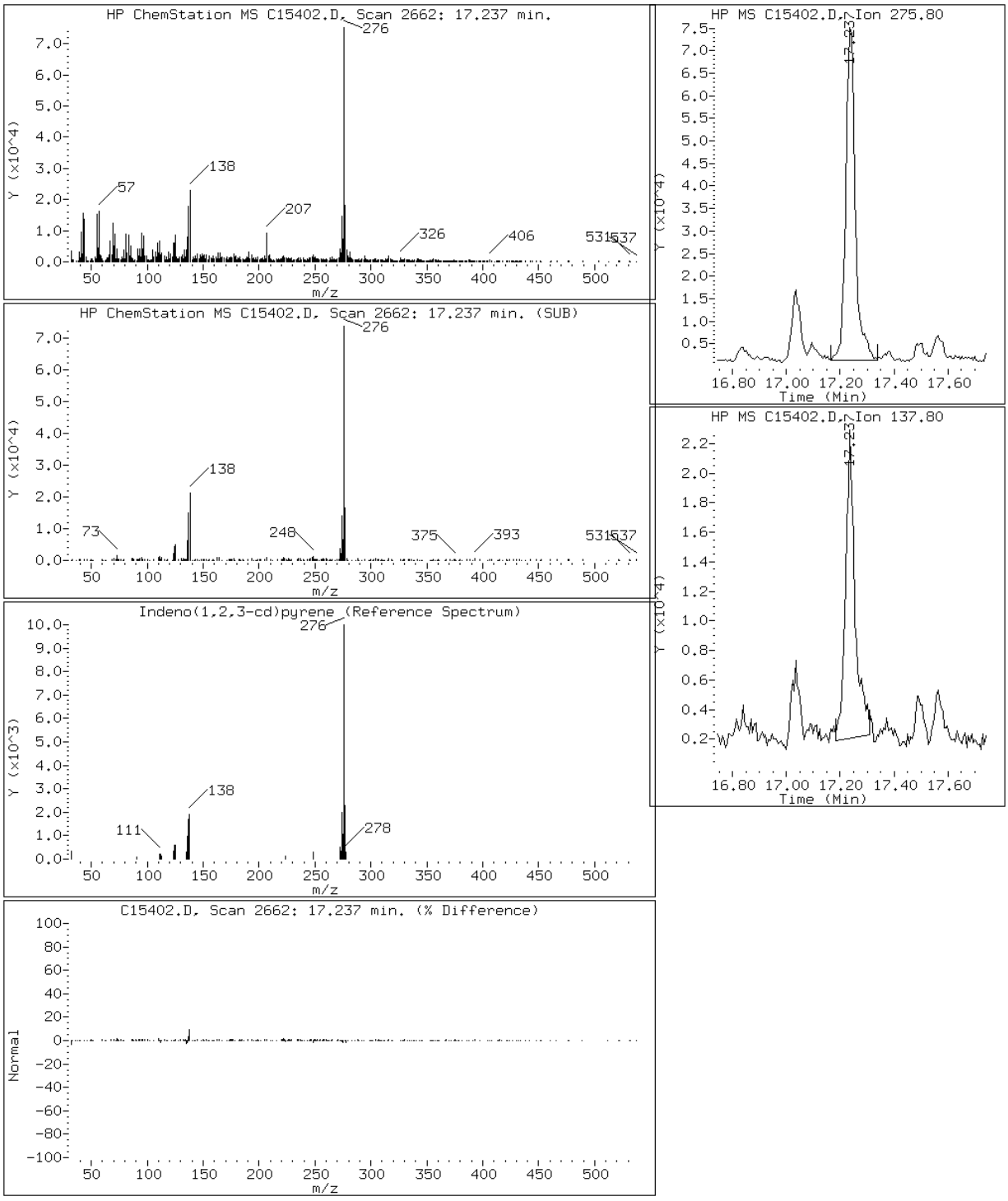
Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



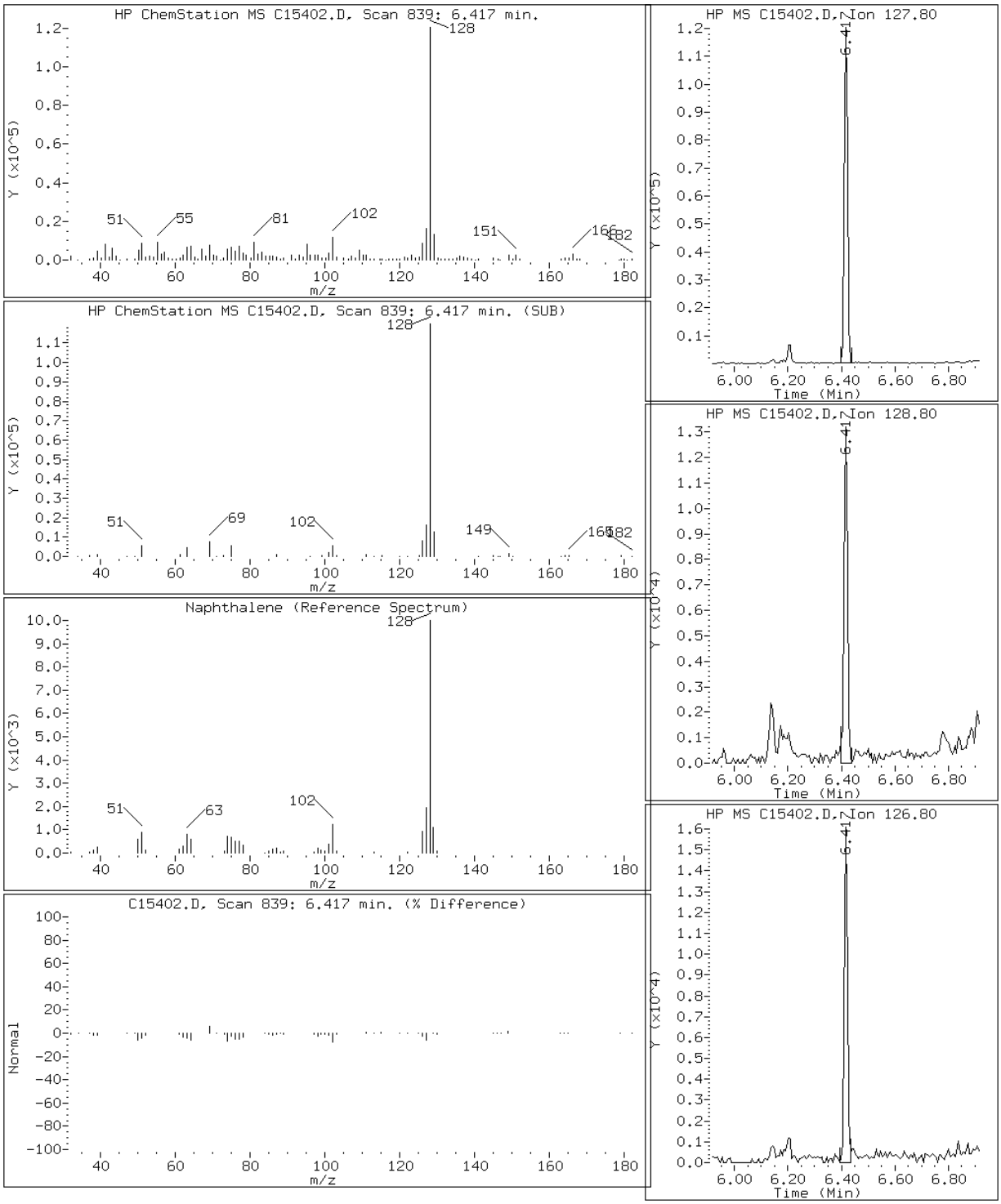
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

30 Naphthalene



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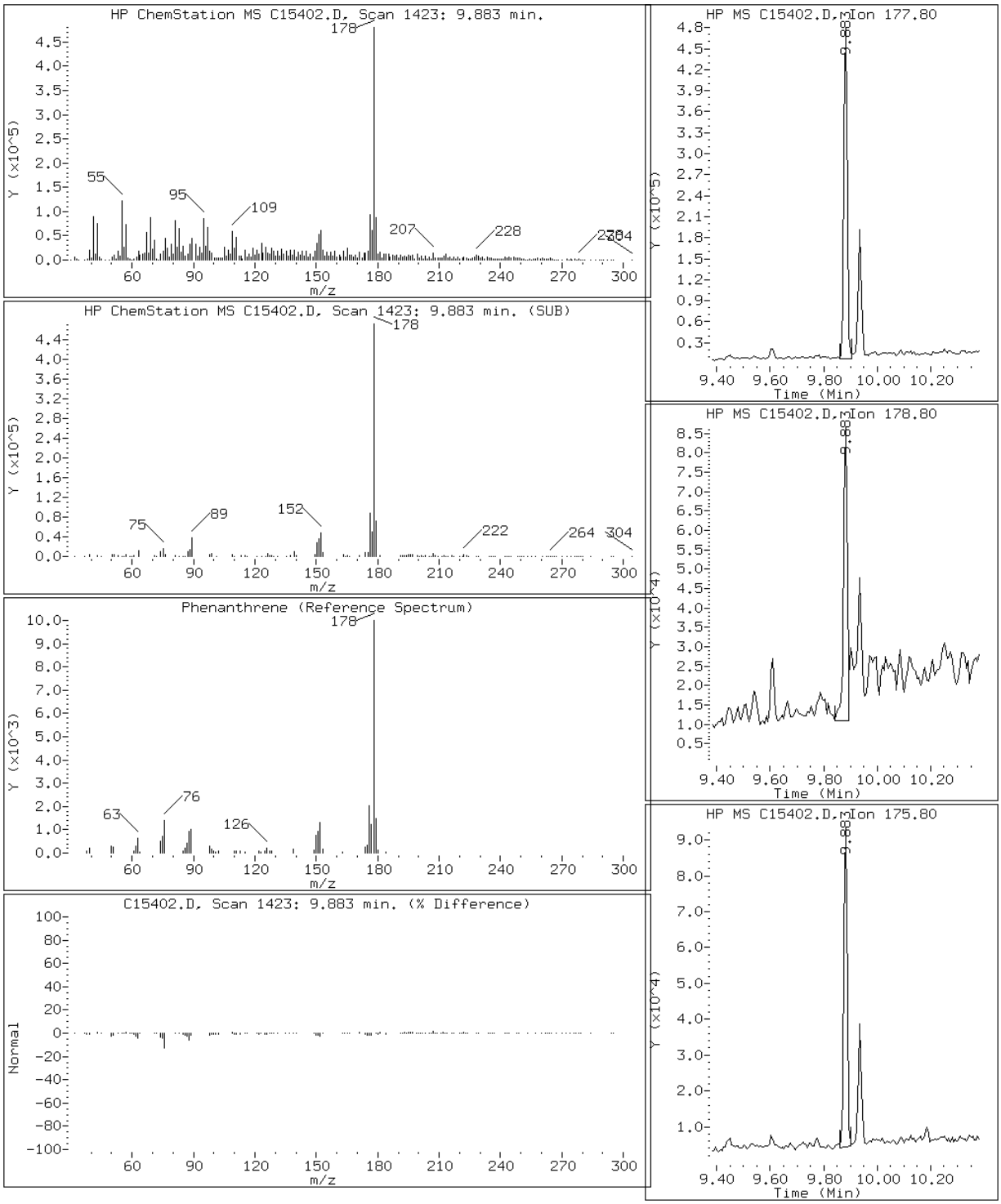
Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

64 Phenanthrene



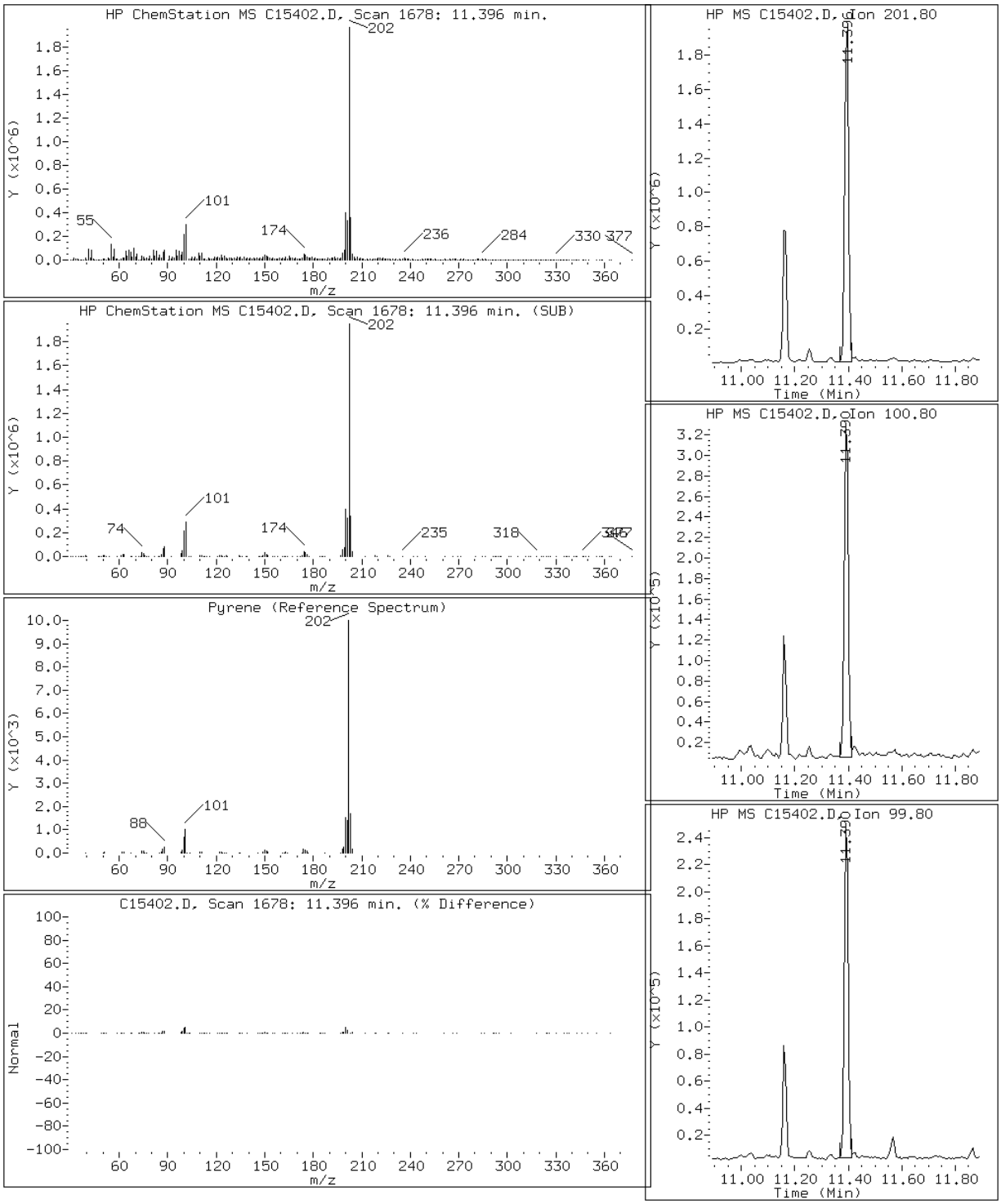
Data File: C15402.D

Date: 22-DEC-2009 17:44

Client ID: PBL-2-30-N(10') F.D Instrument: msc.i

Sample Info: 220-11066-A-11-B Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') | Lab Sample ID: 220-11066-12

Matrix: Solid | Lab File ID: C15403.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.05(g) | Date Analyzed: 12/22/2009 18:15

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	360	U	360	24
95-95-4	2,4,5-Trichlorophenol	2300	U	2300	18
88-06-2	2,4,6-Trichlorophenol	360	U	360	9.9
120-83-2	2,4-Dichlorophenol	360	U	360	19
105-67-9	2,4-Dimethylphenol	360	U	360	18
121-14-2	2,4-Dinitrotoluene	360	U	360	29
51-28-5	2,4-Dinitrophenol	2300	U	2300	110
606-20-2	2,6-Dinitrotoluene	360	U	360	11
91-58-7	2-Chloronaphthalene	360	U	360	15
95-57-8	2-Chlorophenol	360	U	360	21
91-57-6	2-Methylnaphthalene	29	J	360	10
95-48-7	2-Methylphenol	360	U	360	22
88-74-4	2-Nitroaniline	900	U	900	22
88-75-5	2-Nitrophenol	360	U	360	23
91-94-1	3,3'-Dichlorobenzidine	440	U	440	75
99-09-2	3-Nitroaniline	900	U	900	12
534-52-1	4,6-Dinitro-2-methylphenol	2300	U	2300	160
101-55-3	4-Bromophenyl phenyl ether	360	U	360	23
59-50-7	4-Chloro-3-methylphenol	360	U	360	15
106-47-8	4-Chloroaniline	360	U	360	59
7005-72-3	4-Chlorophenyl phenyl ether	360	U	360	27
106-44-5	4-Methylphenol	360	U	360	24
100-01-6	4-Nitroaniline	360	U	360	28
100-02-7	4-Nitrophenol	2300	U	2300	27
83-32-9	Acenaphthene	360	U	360	22
208-96-8	Acenaphthylene	360	U	360	18
98-86-2	Acetophenone	360	U	360	19
120-12-7	Anthracene	32	J	360	14
1912-24-9	Atrazine	440	U	440	23
100-52-7	Benzaldehyde	360	U	360	61
56-55-3	Benzo[a]anthracene	59	J	360	13
50-32-8	Benzo[a]pyrene	46	J	360	9.8
205-99-2	Benzo[b]fluoranthene	50	J	360	9.7
191-24-2	Benzo[g,h,i]perylene	360	U	360	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') | Lab Sample ID: 220-11066-12

Matrix: Solid | Lab File ID: C15403.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.05(g) | Date Analyzed: 12/22/2009 18:15

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	360	U	360	33
111-91-1	Bis(2-chloroethoxy)methane	360	U	360	17
111-44-4	Bis(2-chloroethyl)ether	360	U	360	19
117-81-7	Bis(2-ethylhexyl) phthalate	44	J B	360	35
85-68-7	Butyl benzyl phthalate	360	U	360	20
105-60-2	Caprolactam	360	U	360	29
86-74-8	Carbazole	360	U	360	20
218-01-9	Chrysene	51	J	360	27
84-74-2	Di-n-butyl phthalate	360	U	360	53
117-84-0	Di-n-octyl phthalate	360	U	360	21
53-70-3	Dibenz(a,h)anthracene	360	U	360	29
132-64-9	Dibenzofuran	360	U	360	26
84-66-2	Diethyl phthalate	360	U	360	37
131-11-3	Dimethyl phthalate	360	U	360	21
206-44-0	Fluoranthene	84	J	360	18
86-73-7	Fluorene	24	J	360	22
118-74-1	Hexachlorobenzene	360	U	360	25
87-68-3	Hexachlorobutadiene	360	U	360	28
77-47-4	Hexachlorocyclopentadiene	900	U	900	170
67-72-1	Hexachloroethane	360	U	360	21
193-39-5	Indeno[1,2,3-cd]pyrene	360	U	360	24
78-59-1	Isophorone	360	U	360	20
621-64-7	N-Nitrosodi-n-propylamine	360	U	360	24
86-30-6	N-Nitrosodiphenylamine	360	U	360	20
91-20-3	Naphthalene	32	J	360	19
98-95-3	Nitrobenzene	360	U	360	23
87-86-5	Pentachlorophenol	900	U	900	220
85-01-8	Phenanthrene	70	J	360	18
108-95-2	Phenol	360	U	360	24
129-00-0	Pyrene	250	J	360	17
108-60-1	2,2'-oxybis[1-chloropropane]	360	U	360	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') | Lab Sample ID: 220-11066-12

Matrix: Solid | Lab File ID: C15403.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.05(g) | Date Analyzed: 12/22/2009 18:15

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	75	37-120	
321-60-8	2-Fluorobiphenyl	69	41-120	
367-12-4	2-Fluorophenol	68	34-120	
4165-60-0	Nitrobenzene-d5	69	38-120	
4165-62-2	Phenol-d5	68	36-120	
1718-51-0	Terphenyl-d14	80	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15403.D
Lab Smp Id: 220-11066-A-12-B Client Smp ID: PBL-2-60-N(11')
Inj Date : 22-DEC-2009 18:15
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-12-B
Misc Info : 220-11066-A-12-B
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.050	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	25.872	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.027	5.021	(1.000)	295683	20.0000	
$	2 2-Fluorophenol	112	3.567	3.549	(0.710)	953932	50.8325	4600
$	3 Phenol-d5	99	4.677	4.671	(0.930)	1341763	51.0916	4600
*	20 Naphthalene-d8	136	6.398	6.398	(1.000)	1429679	20.0000	
$	21 Nitrobenzene-d5	82	5.627	5.627	(0.879)	913104	34.5039	3100
	30 Naphthalene	128	6.416	6.416	(1.003)	27927	0.36063	32
	34 2-Methylnaphthalene	142	7.164	7.164	(1.120)	17036	0.32218	29
*	35 Acenaphthene-d10	164	8.274	8.274	(1.000)	1050514	20.0000	
$	40 2-Fluorobiphenyl	172	7.568	7.567	(0.915)	2178022	34.3469	3100
	52 Fluorene	166	8.861	8.861	(1.071)	18560	0.27222	24
$	56 2,4,6-Tribromophenol	330	9.117	9.117	(1.102)	538077	56.1974	5000
*	57 Phenanthrene-d10	188	9.859	9.852	(1.000)	1762460	20.0000	
	64 Phenanthrene	178	9.882	9.882	(1.002)	77565	0.78029	70
	66 Anthracene	178	9.936	9.936	(1.008)	37094	0.35930	32
	68 Fluoranthene	202	11.146	11.146	(1.131)	107907	0.94134	84
*	70 Chrysene-d12	240	12.808	12.808	(1.000)	1850740	20.0000	
	72 Pyrene	202	11.390	11.390	(0.889)	301739	2.73626	250
$	73 Terphenyl-d14	244	11.562	11.562	(0.903)	3068019	39.8431	3600

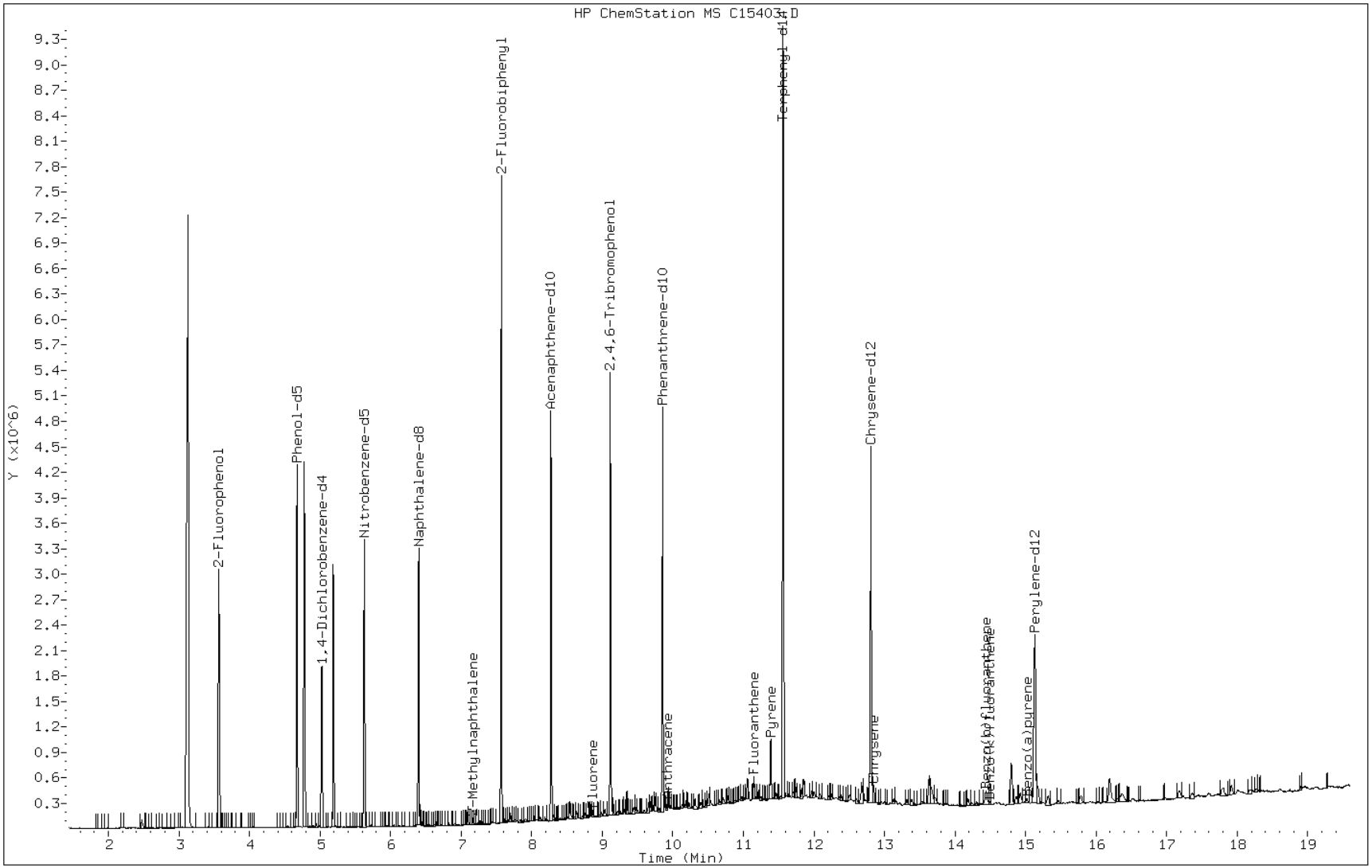
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
	76 Benzo(a)anthracene	228	12.797	12.796	(0.999)	68612	0.65550	59
	77 Chrysene	228	12.844	12.850	(1.003)	57808	0.57170	51
	78 Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	34538	0.49578	44
*	79 Perylene-d12	264	15.129	15.129	(1.000)	1133423	20.0000	
	81 Benzo(b)fluoranthene	252	14.447	14.452	(0.955)	44157	0.56302	50
	83 Benzo(a)pyrene	252	15.022	15.028	(0.993)	34160	0.51114	46

Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas



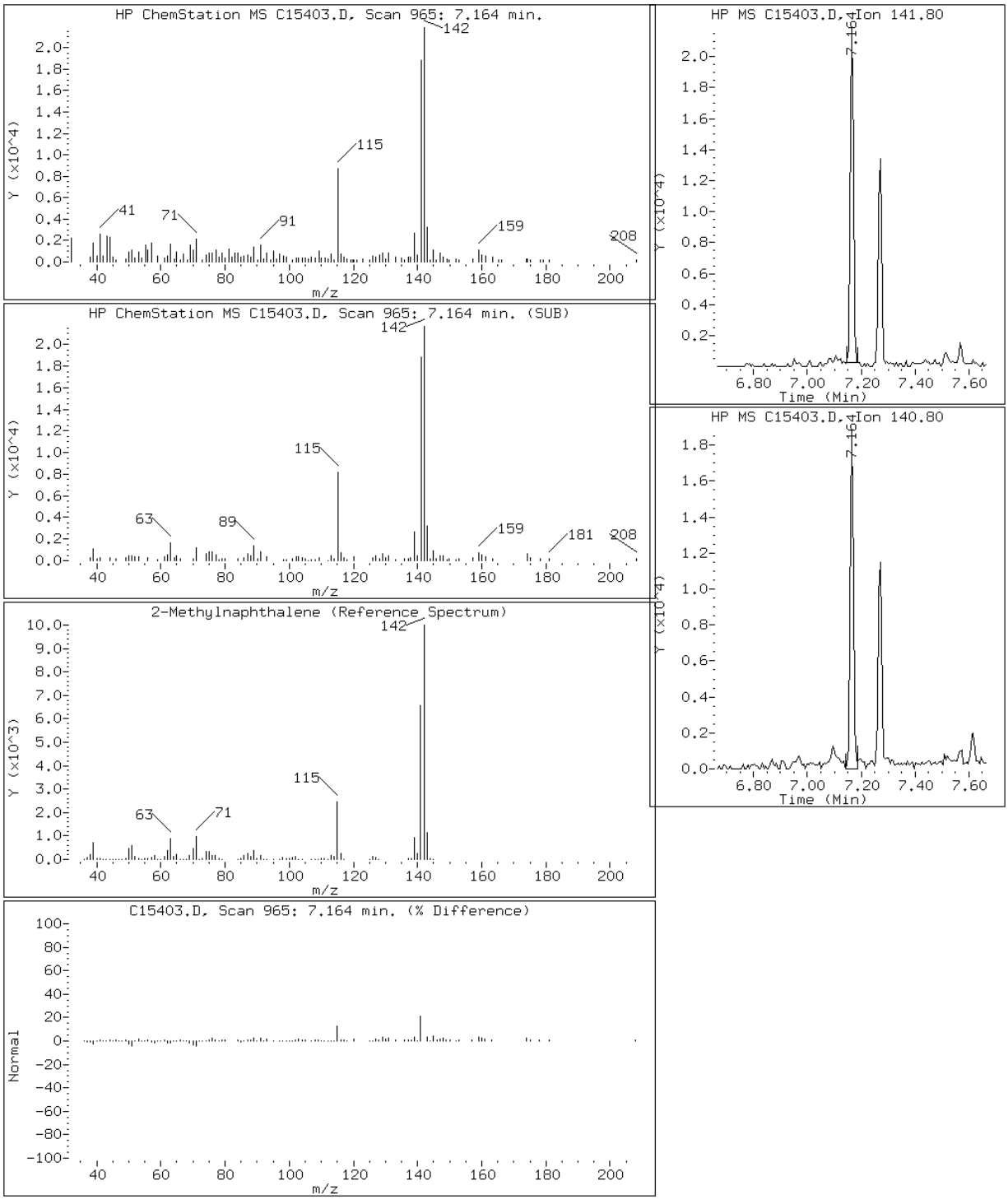
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

34 2-Methylnaphthalene



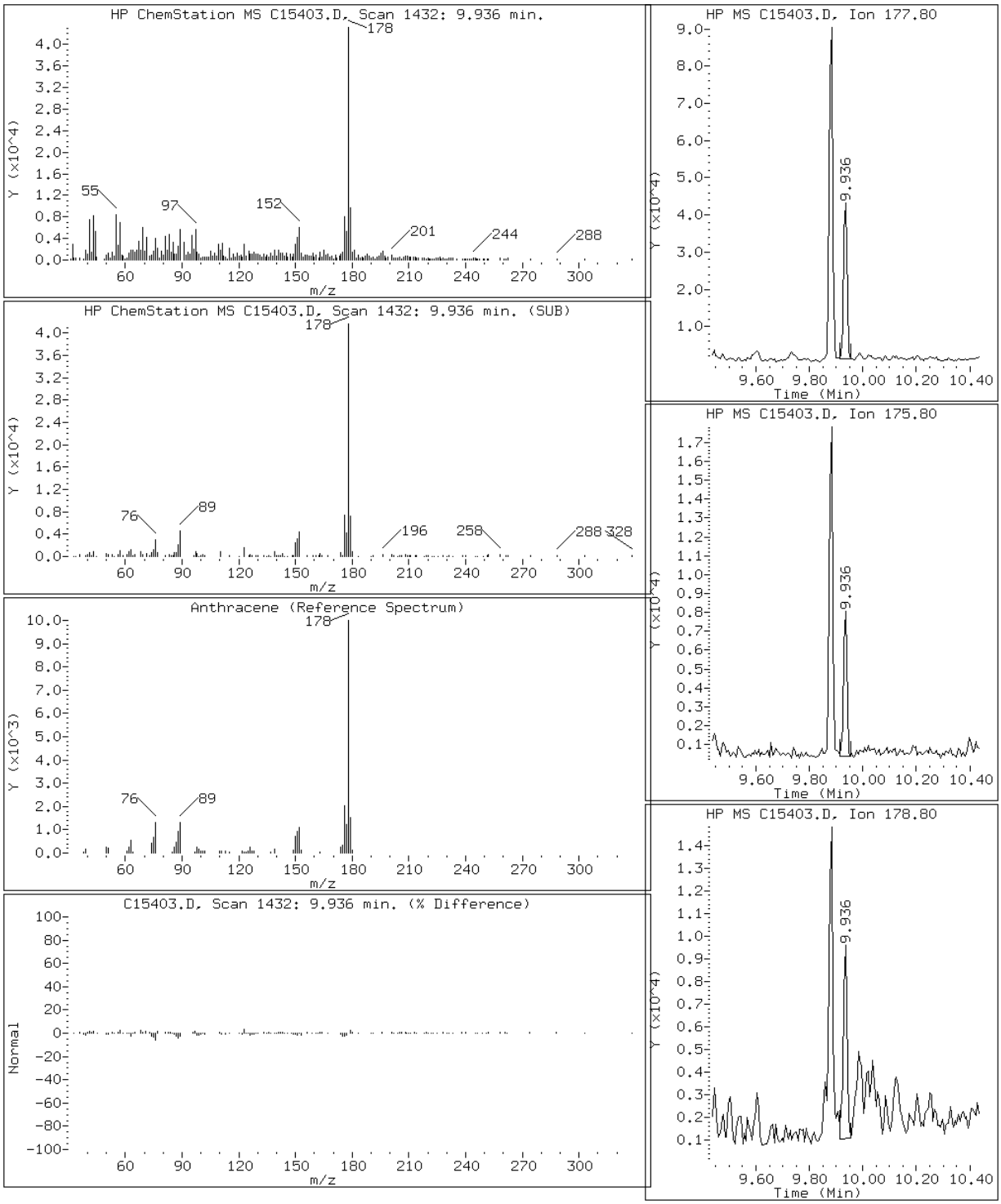
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

66 Anthracene



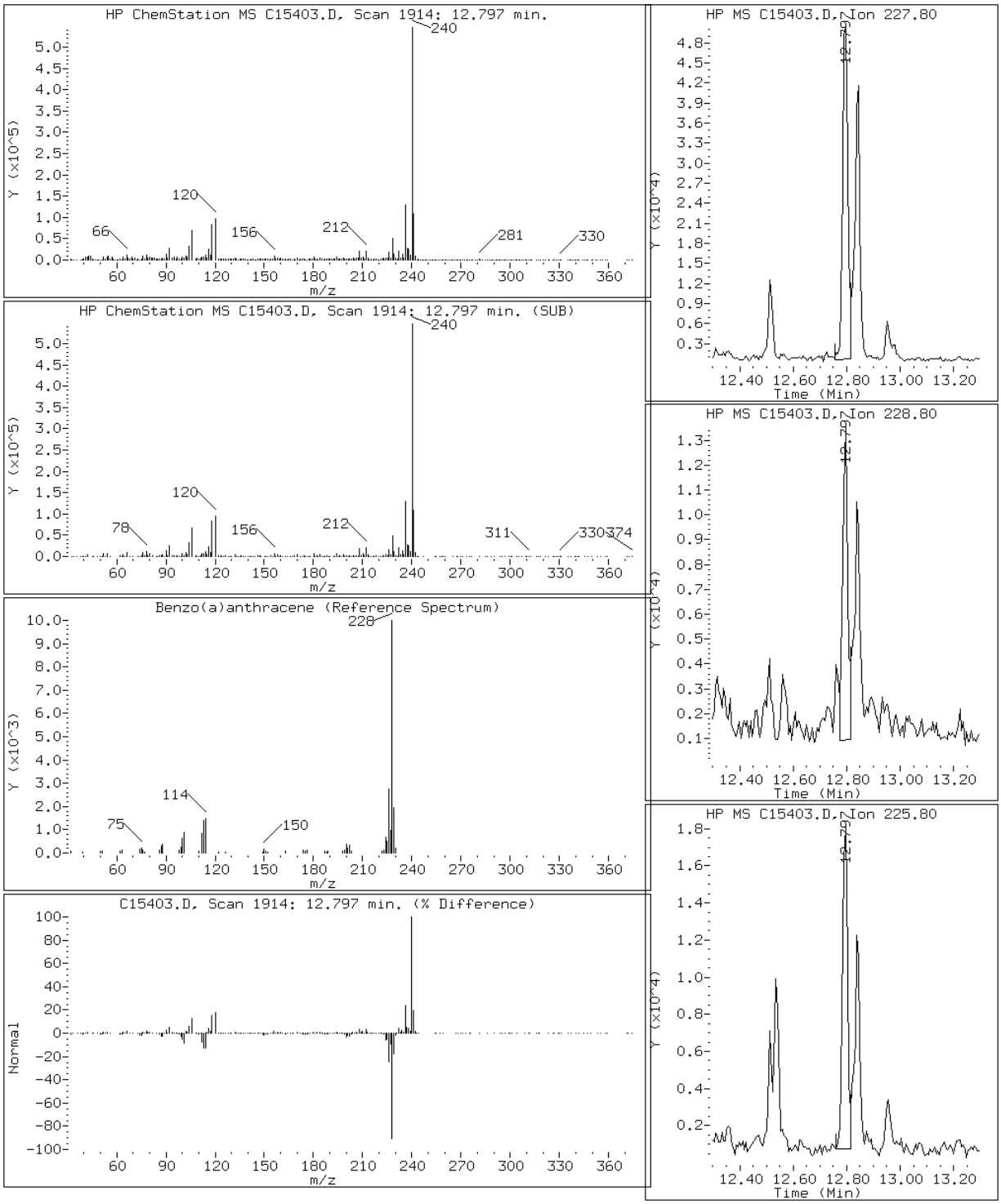
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

76 Benzo(a)anthracene



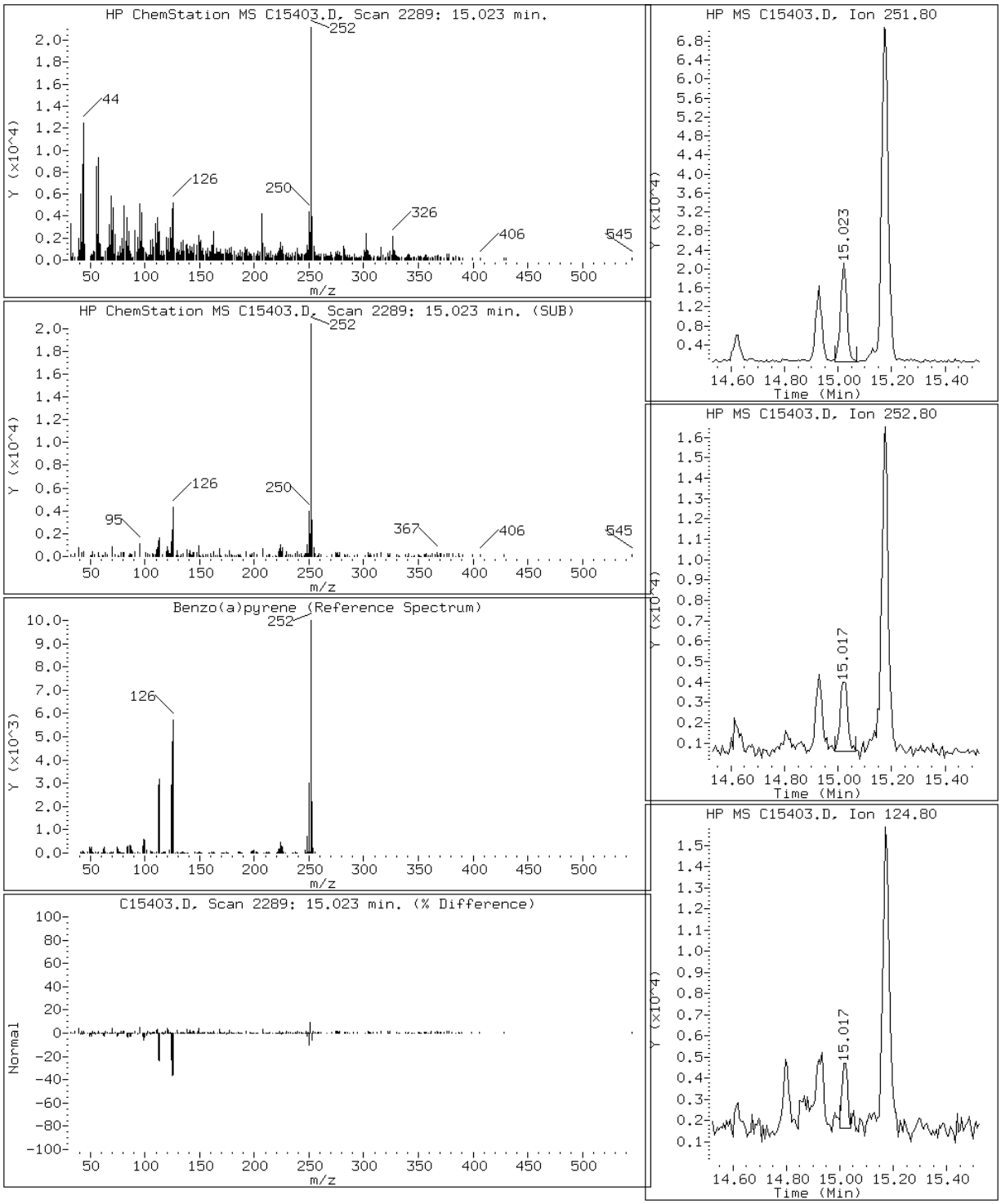
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

83 Benzo(a)pyrene



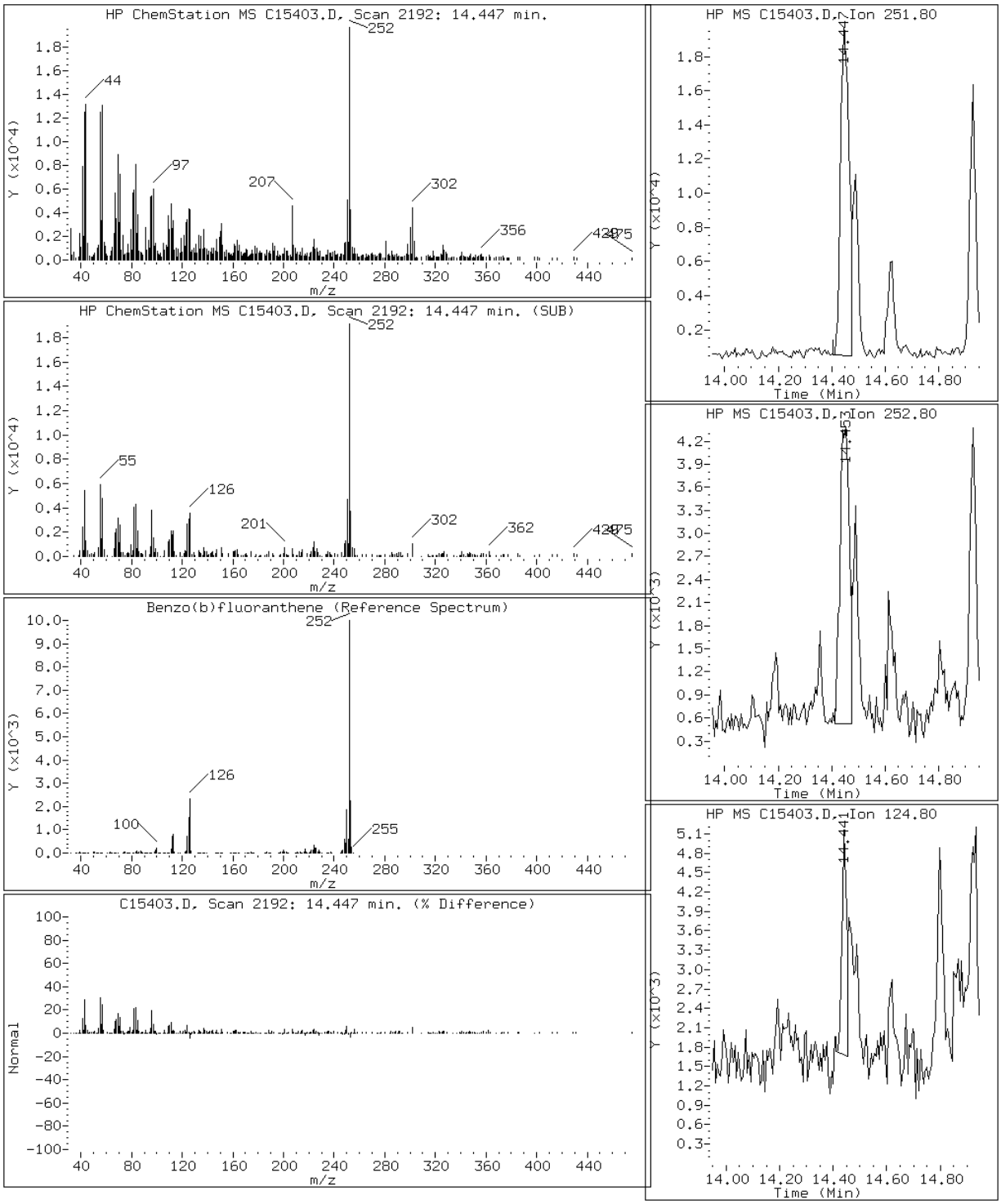
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

81 Benzo(b)fluoranthene



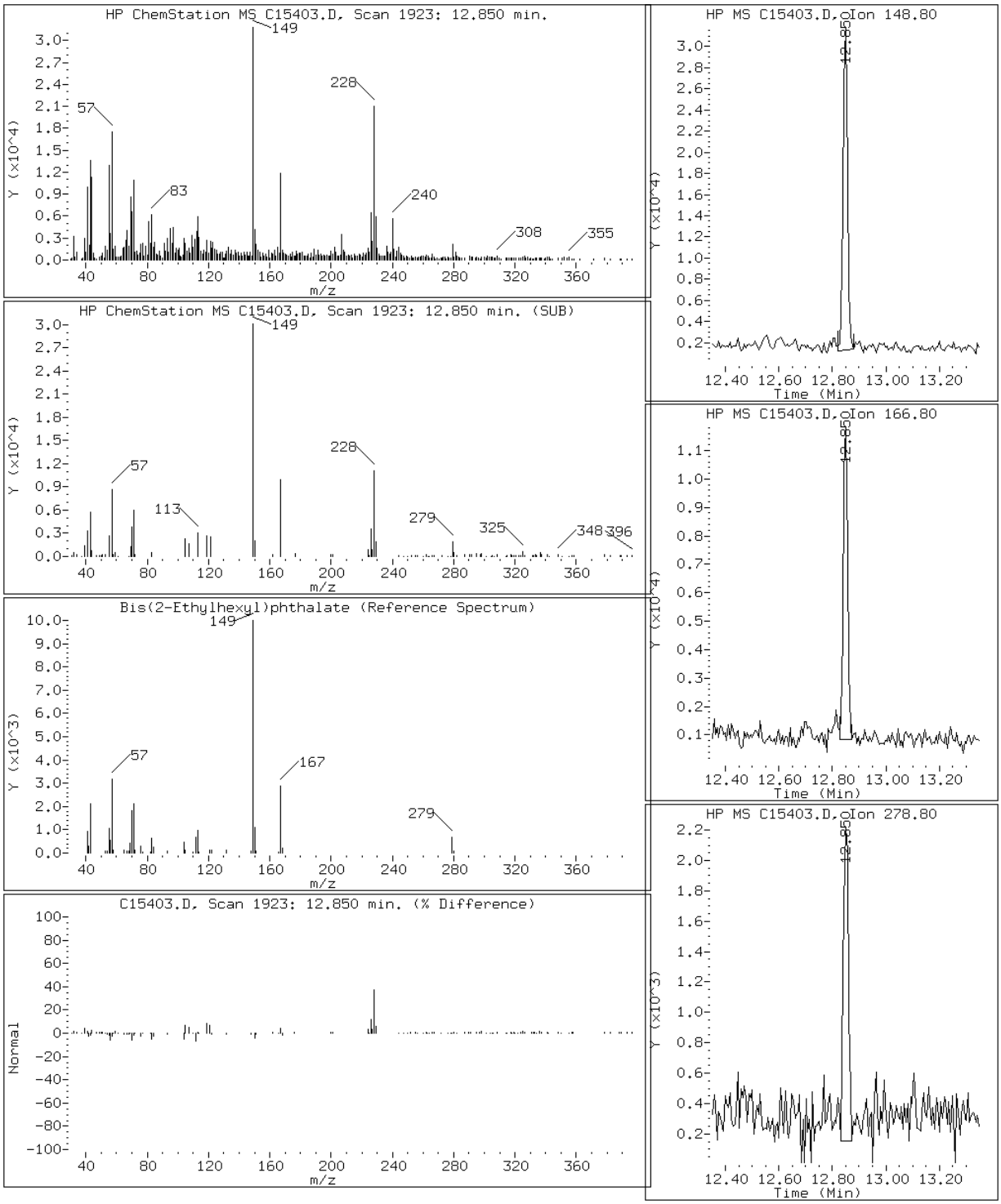
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



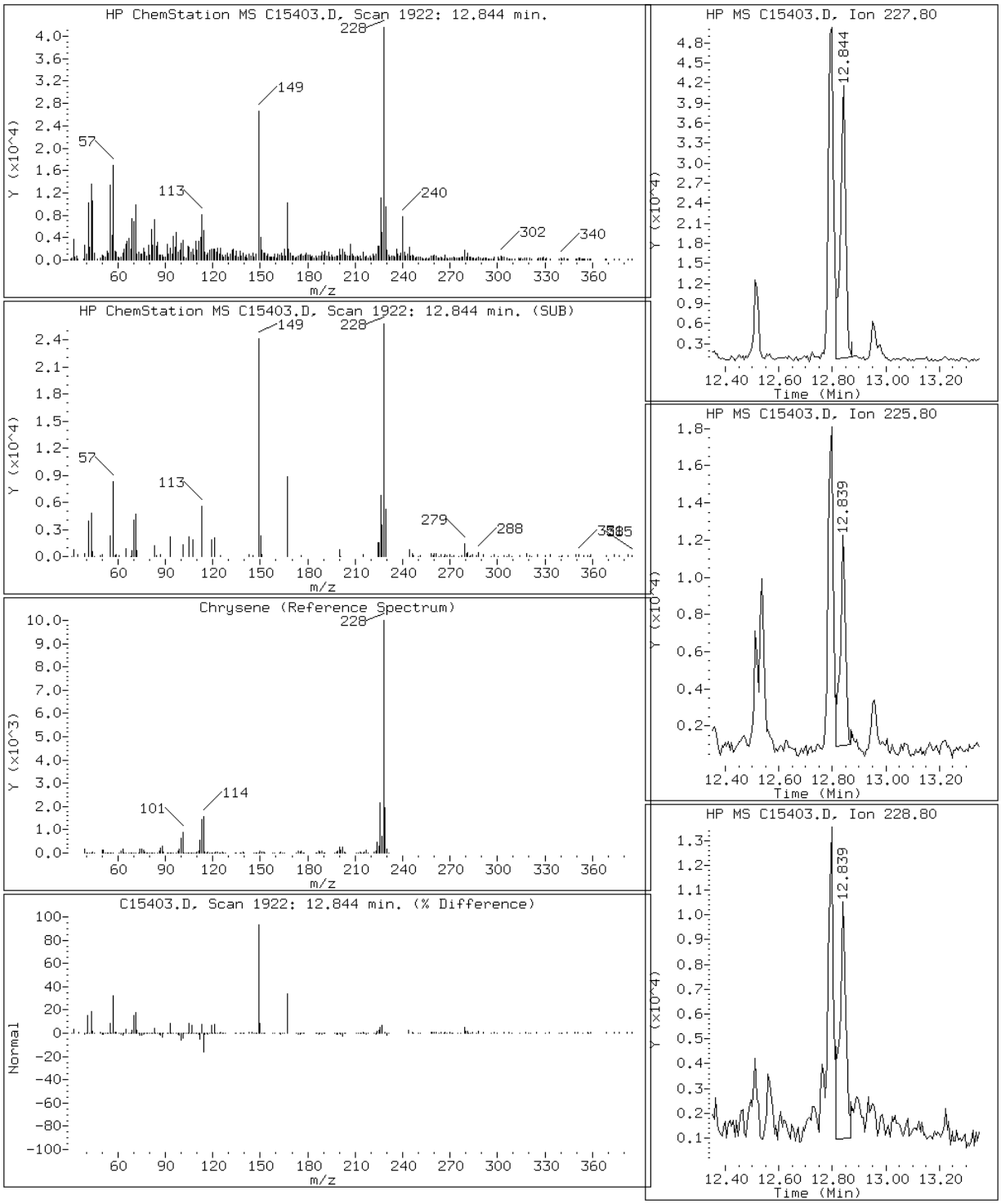
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

77 Chrysene



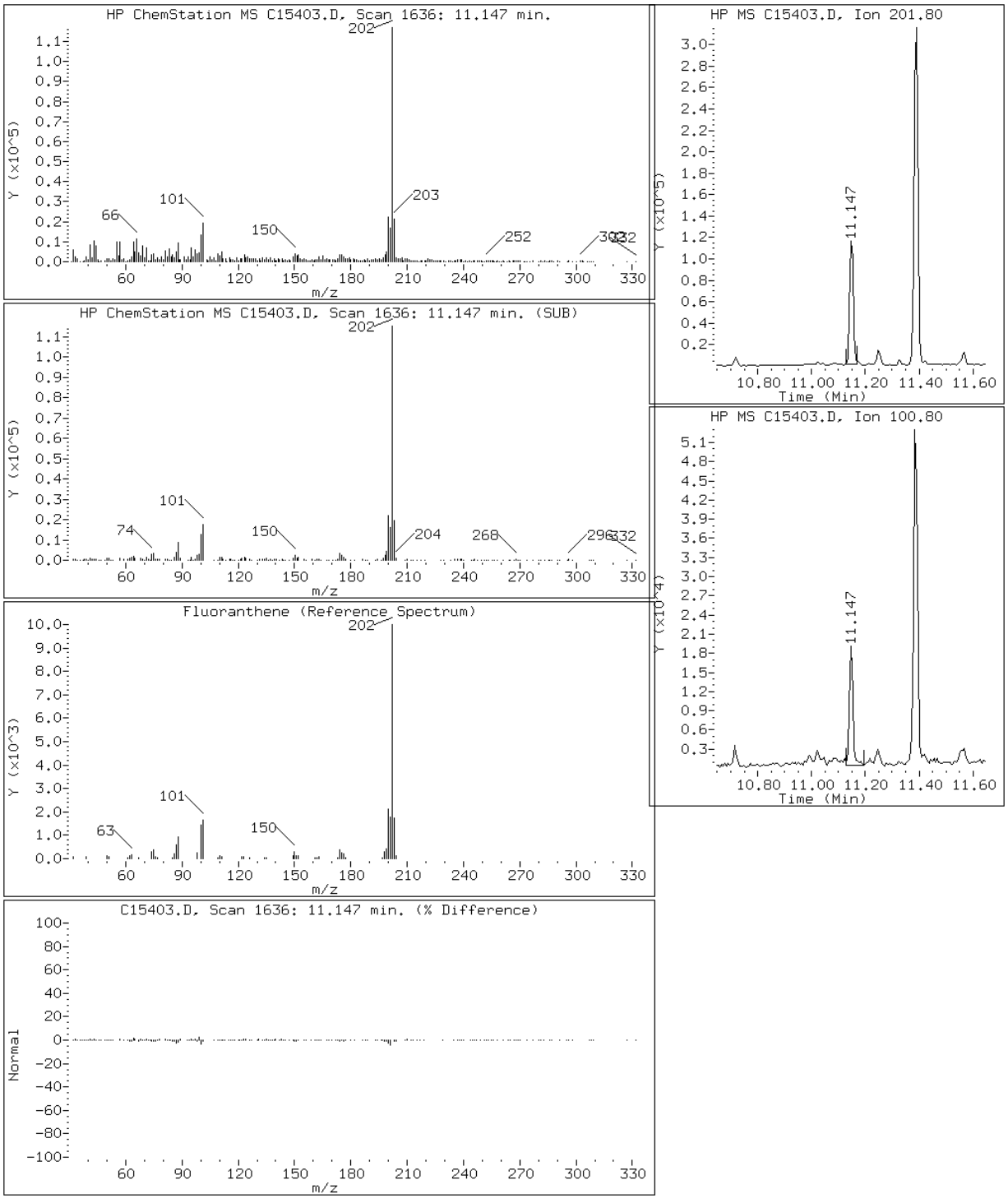
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

68 Fluoranthene



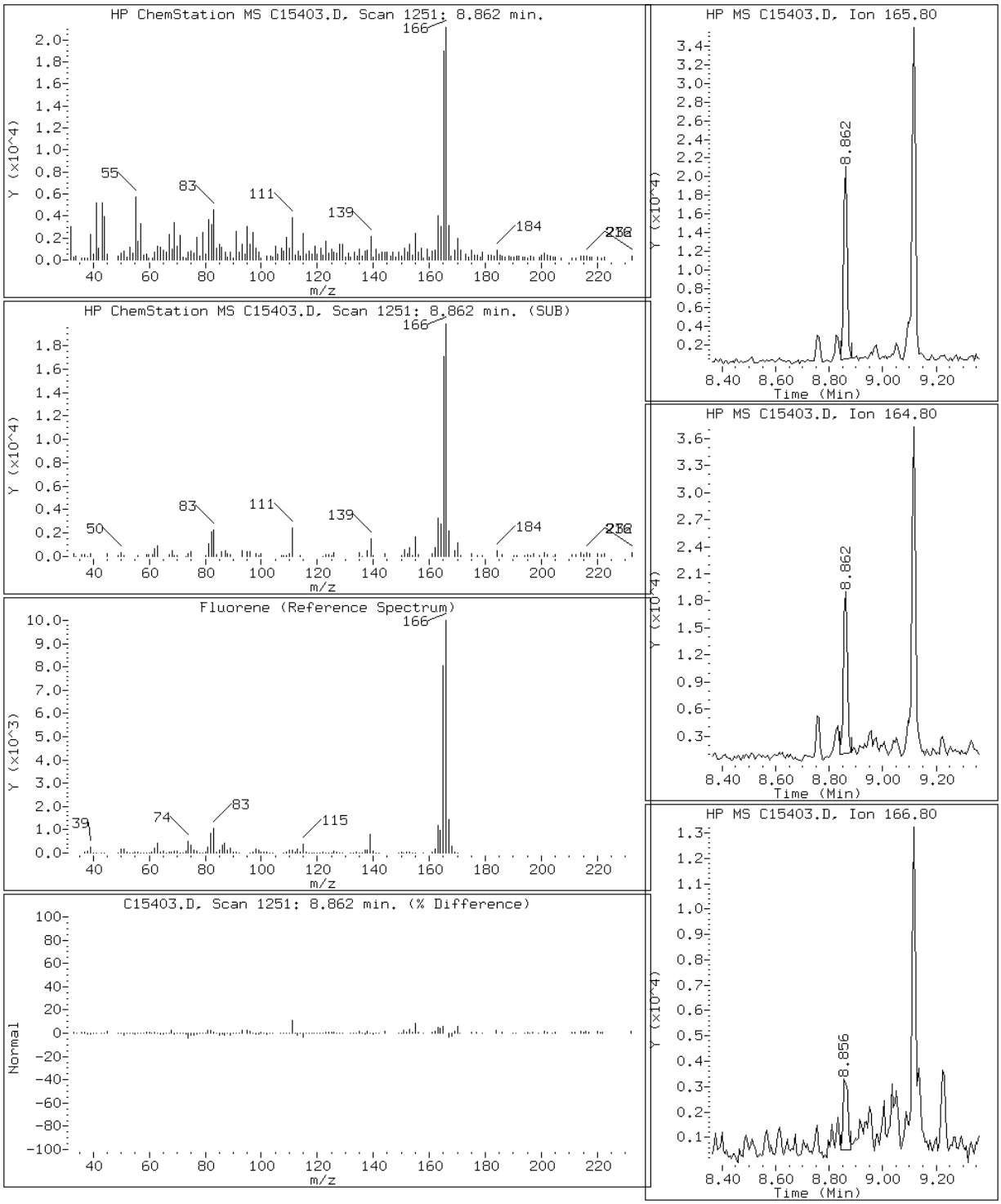
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

52 Fluorene



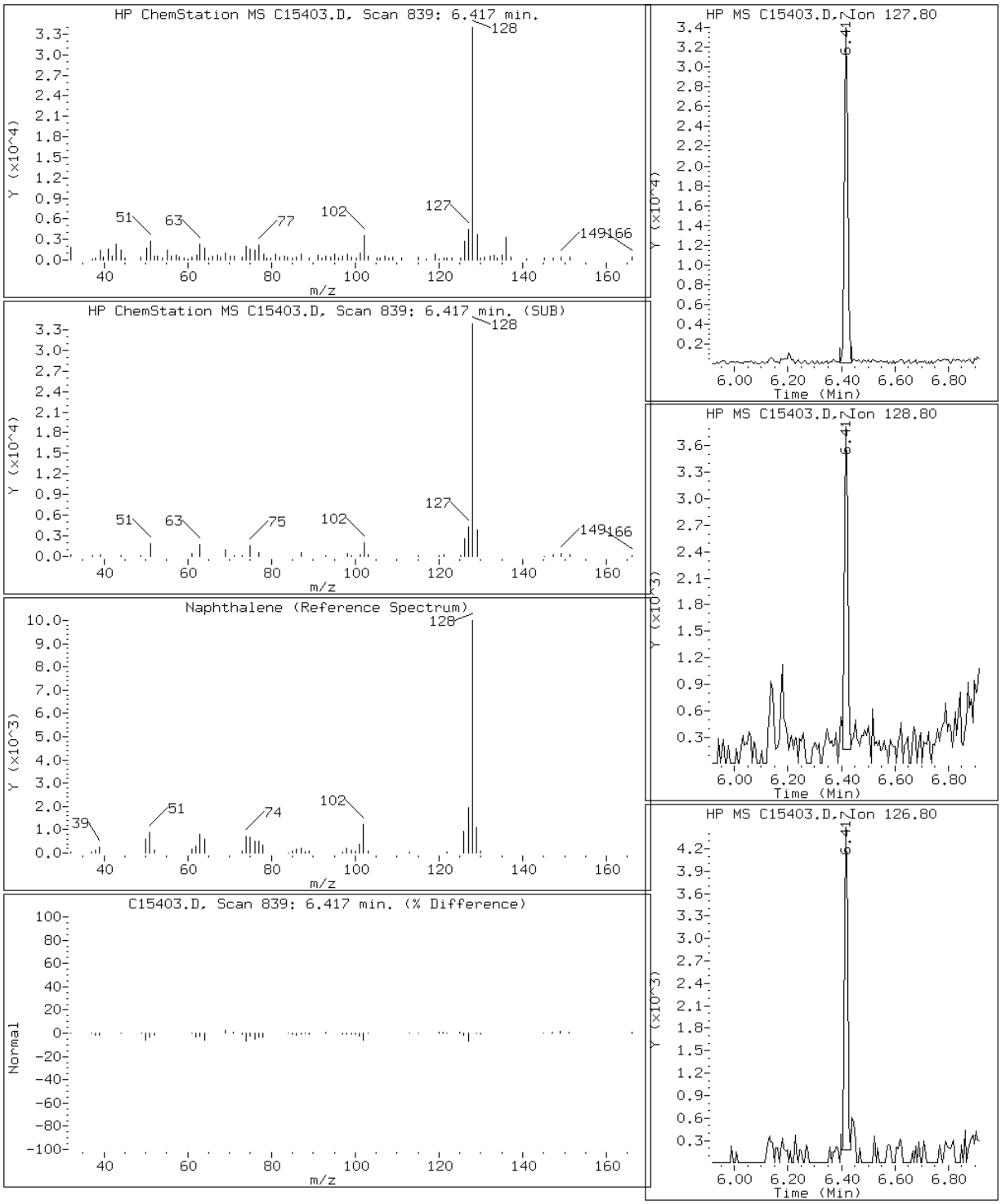
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

30 Naphthalene



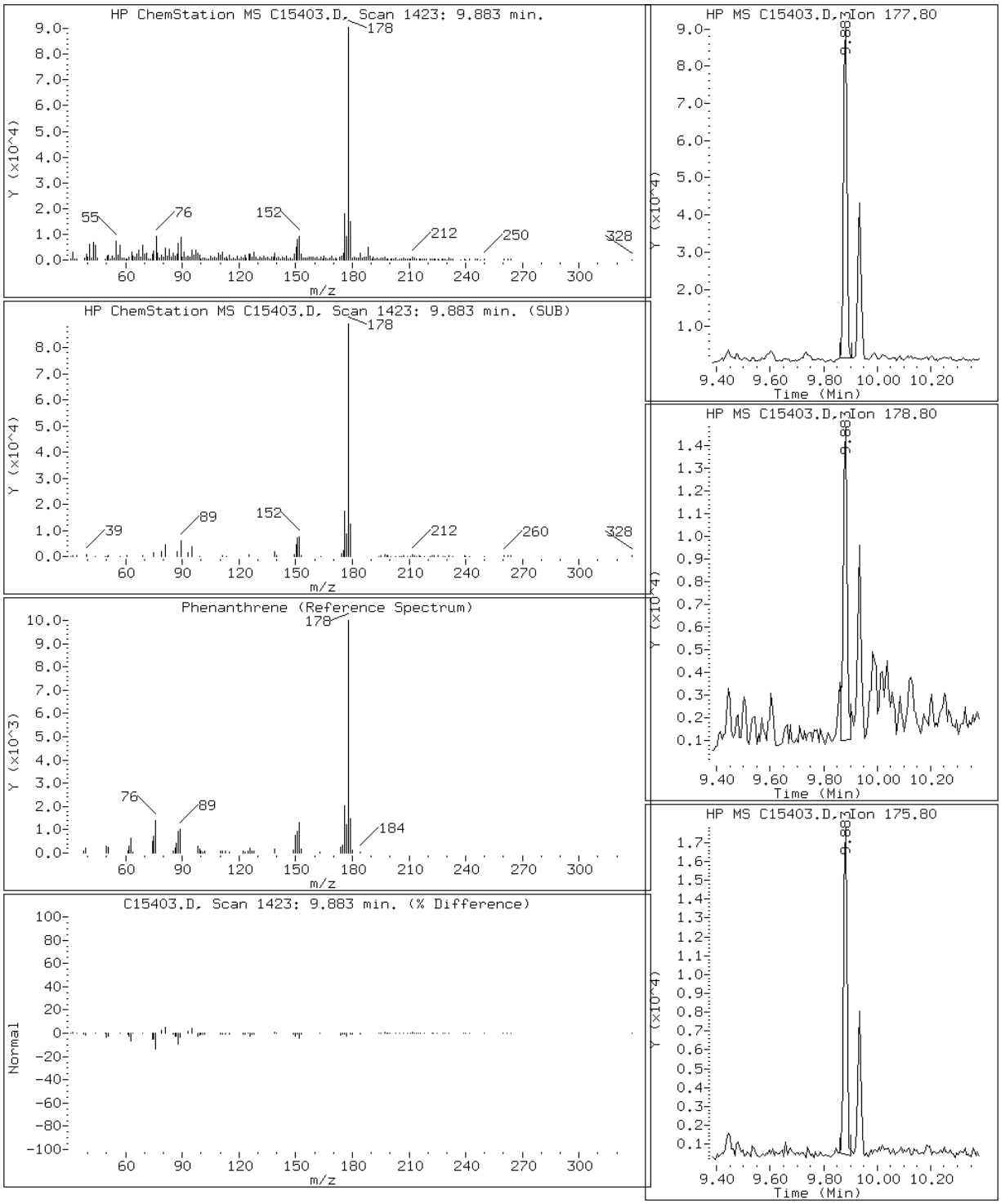
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

64 Phenanthrene



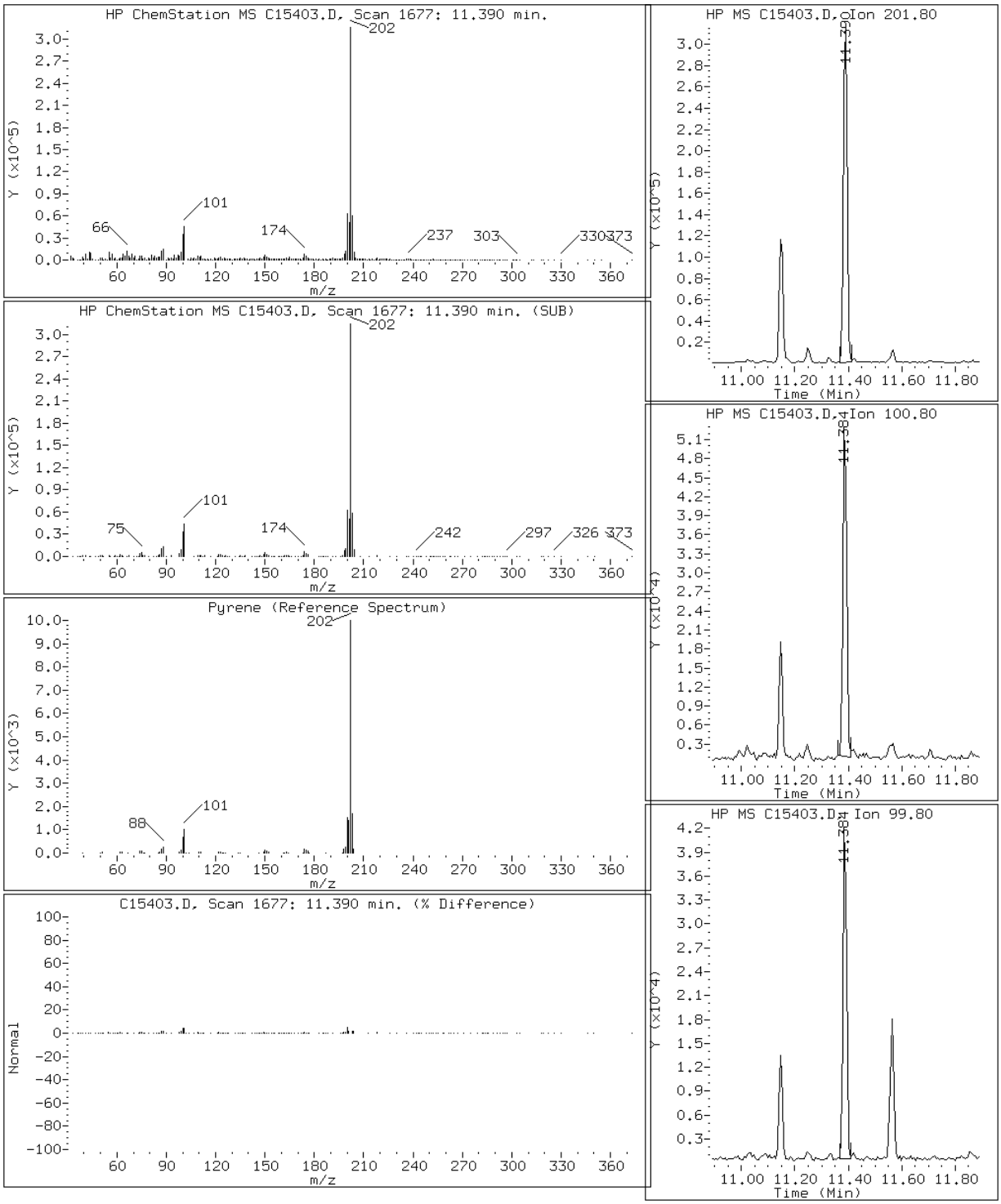
Data File: C15403.D

Date: 22-DEC-2009 18:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-B Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-8-60-S(12') | Lab Sample ID: 220-11066-13

Matrix: Solid | Lab File ID: C15397.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:30

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.25(g) | Date Analyzed: 12/22/2009 15:11

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	21	J	320	21
95-95-4	2,4,5-Trichlorophenol	2000	U	2000	16
88-06-2	2,4,6-Trichlorophenol	320	U	320	8.9
120-83-2	2,4-Dichlorophenol	320	U	320	17
105-67-9	2,4-Dimethylphenol	320	U	320	16
121-14-2	2,4-Dinitrotoluene	320	U	320	26
51-28-5	2,4-Dinitrophenol	2000	U	2000	97
606-20-2	2,6-Dinitrotoluene	320	U	320	9.5
91-58-7	2-Chloronaphthalene	320	U	320	14
95-57-8	2-Chlorophenol	320	U	320	19
91-57-6	2-Methylnaphthalene	70	J	320	9.3
95-48-7	2-Methylphenol	320	U	320	19
88-74-4	2-Nitroaniline	810	U	810	20
88-75-5	2-Nitrophenol	320	U	320	20
91-94-1	3,3'-Dichlorobenzidine	400	U	400	67
99-09-2	3-Nitroaniline	810	U	810	10
534-52-1	4,6-Dinitro-2-methylphenol	2000	U	2000	140
101-55-3	4-Bromophenyl phenyl ether	320	U	320	21
59-50-7	4-Chloro-3-methylphenol	320	U	320	13
106-47-8	4-Chloroaniline	320	U	320	53
7005-72-3	4-Chlorophenyl phenyl ether	320	U	320	24
106-44-5	4-Methylphenol	320	U	320	21
100-01-6	4-Nitroaniline	320	U	320	25
100-02-7	4-Nitrophenol	2000	U	2000	25
83-32-9	Acenaphthene	320	U	320	19
208-96-8	Acenaphthylene	17	J	320	16
98-86-2	Acetophenone	320	U	320	17
120-12-7	Anthracene	46	J	320	13
1912-24-9	Atrazine	400	U	400	21
100-52-7	Benzaldehyde	320	U	320	54
56-55-3	Benzo[a]anthracene	160	J	320	12
50-32-8	Benzo[a]pyrene	170	J	320	8.8
205-99-2	Benzo[b]fluoranthene	240	J	320	8.7
191-24-2	Benzo[g,h,i]perylene	110	J	320	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-8-60-S(12') | Lab Sample ID: 220-11066-13

Matrix: Solid | Lab File ID: C15397.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:30

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.25(g) | Date Analyzed: 12/22/2009 15:11

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	64	J	320	29
111-91-1	Bis(2-chloroethoxy)methane	320	U	320	15
111-44-4	Bis(2-chloroethyl)ether	320	U	320	17
117-81-7	Bis(2-ethylhexyl) phthalate	2900	B	320	31
85-68-7	Butyl benzyl phthalate	320	U	320	18
105-60-2	Caprolactam	44	J	320	25
86-74-8	Carbazole	24	J	320	18
218-01-9	Chrysene	240	J	320	24
84-74-2	Di-n-butyl phthalate	50	J	320	47
117-84-0	Di-n-octyl phthalate	320	U	320	18
53-70-3	Dibenz(a,h)anthracene	26	J	320	25
132-64-9	Dibenzofuran	320	U	320	23
84-66-2	Diethyl phthalate	320	U	320	33
131-11-3	Dimethyl phthalate	320	U	320	19
206-44-0	Fluoranthene	300	J	320	16
86-73-7	Fluorene	320	U	320	19
118-74-1	Hexachlorobenzene	320	U	320	22
87-68-3	Hexachlorobutadiene	320	U	320	25
77-47-4	Hexachlorocyclopentadiene	810	U	810	150
67-72-1	Hexachloroethane	320	U	320	19
193-39-5	Indeno[1,2,3-cd]pyrene	100	J	320	21
78-59-1	Isophorone	320	U	320	18
621-64-7	N-Nitrosodi-n-propylamine	320	U	320	22
86-30-6	N-Nitrosodiphenylamine	320	U	320	18
91-20-3	Naphthalene	260	J	320	17
98-95-3	Nitrobenzene	320	U	320	21
87-86-5	Pentachlorophenol	810	U	810	200
85-01-8	Phenanthrene	320	J	320	16
108-95-2	Phenol	320	U	320	22
129-00-0	Pyrene	330		320	15
108-60-1	2,2'-oxybis[1-chloropropane]	320	U	320	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-8-60-S(12') | Lab Sample ID: 220-11066-13

Matrix: Solid | Lab File ID: C15397.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:30

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.25(g) | Date Analyzed: 12/22/2009 15:11

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	56	37-120	
321-60-8	2-Fluorobiphenyl	61	41-120	
367-12-4	2-Fluorophenol	59	34-120	
4165-60-0	Nitrobenzene-d5	61	38-120	
4165-62-2	Phenol-d5	60	36-120	
1718-51-0	Terphenyl-d14	75	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15397.D
Lab Smp Id: 220-11066-A-13-B Client Smp ID: PBL-8-60-S(12')
Inj Date : 22-DEC-2009 15:11
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-13-B
Misc Info : 220-11066-A-13-B
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.250	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	18.193	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.027	5.021	(1.000)	272843	20.0000	
$	2 2-Fluorophenol	112	3.567	3.549	(0.710)	768126	44.3578	3600
$	3 Phenol-d5	99	4.677	4.671	(0.930)	1089179	44.9455	3600
*	20 Naphthalene-d8	136	6.398	6.398	(1.000)	1329617	20.0000	
$	21 Nitrobenzene-d5	82	5.627	5.627	(0.879)	747657	30.3782	2400
	30 Naphthalene	128	6.416	6.416	(1.003)	232092	3.22258	260
	129 Caprolactam	113	6.826	6.879	(1.067)	4557	0.55056	44(H)
	34 2-Methylnaphthalene	142	7.164	7.164	(1.120)	42954	0.87348	70
*	35 Acenaphthene-d10	164	8.274	8.274	(1.000)	976837	20.0000	
$	40 2-Fluorobiphenyl	172	7.568	7.567	(0.915)	1808093	30.6638	2500
	130 1,1'-Biphenyl	154	7.668	7.668	(0.927)	16492	0.26488	21
	43 Acenaphthylene	152	8.120	8.119	(0.981)	18907	0.21816	17
$	56 2,4,6-Tribromophenol	330	9.117	9.117	(1.102)	375887	42.2191	3400
*	57 Phenanthrene-d10	188	9.859	9.852	(1.000)	1652402	20.0000	
	64 Phenanthrene	178	9.882	9.882	(1.002)	373467	4.00722	320
	65 Carbazole	167	10.108	10.108	(1.025)	27660	0.29838	24
	66 Anthracene	178	9.936	9.936	(1.008)	55996	0.57851	46
	67 Di-n-butylphthalate	149	10.500	10.499	(1.065)	69999	0.62666	50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	68 Fluoranthene	202	11.147	11.146	(1.131)	402738	3.74733	300
*	70 Chrysene-d12	240	12.808	12.808	(1.000)	1742993	20.0000	
	72 Pyrene	202	11.390	11.390	(0.889)	421268	4.05634	330
$	73 Terphenyl-d14	244	11.562	11.562	(0.903)	2716523	37.4592	3000
	76 Benzo(a)anthracene	228	12.797	12.796	(0.999)	197708	2.00560	160
	77 Chrysene	228	12.844	12.850	(1.003)	283254	2.97447	240
	78 Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	2349710	35.8144	2900
*	79 Perylene-d12	264	15.135	15.129	(1.000)	1066052	20.0000	
	81 Benzo(b)fluoranthene	252	14.447	14.452	(0.955)	224460	3.04280	240
	82 Benzo(k)fluoranthene	252	14.488	14.500	(0.957)	64430	0.80226	64
	83 Benzo(a)pyrene	252	15.022	15.028	(0.993)	132798	2.11265	170
	84 Indeno(1,2,3-cd)pyrene	276	17.236	17.242	(1.139)	69855	1.26630	100
	85 Dibenzo(a,h)anthracene	278	17.296	17.301	(1.143)	19235	0.32820	26
	86 Benzo(g,h,i)perylene	276	17.788	17.794	(1.175)	83939	1.39807	110

QC Flag Legend

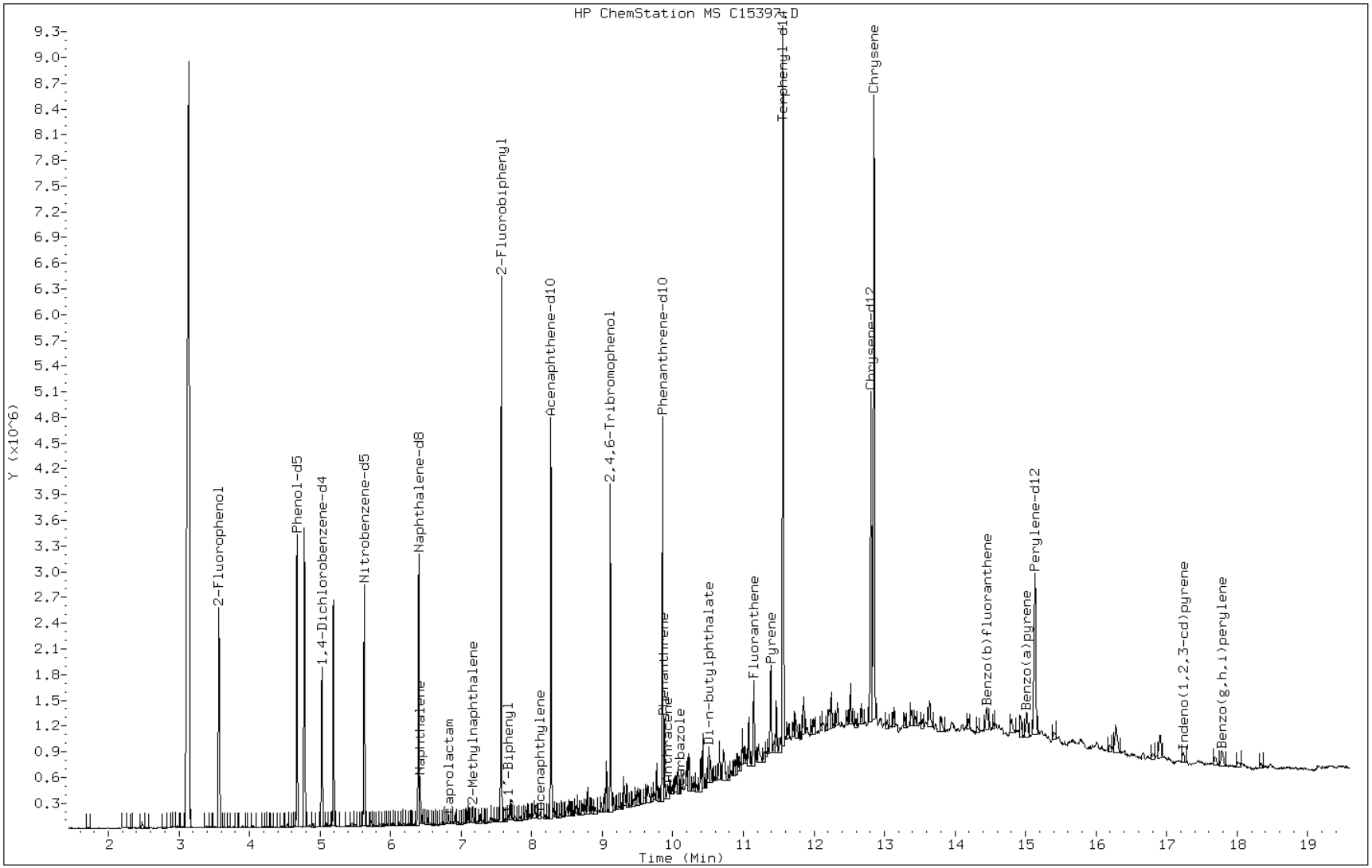
H - Operator selected an alternate compound hit.

Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas



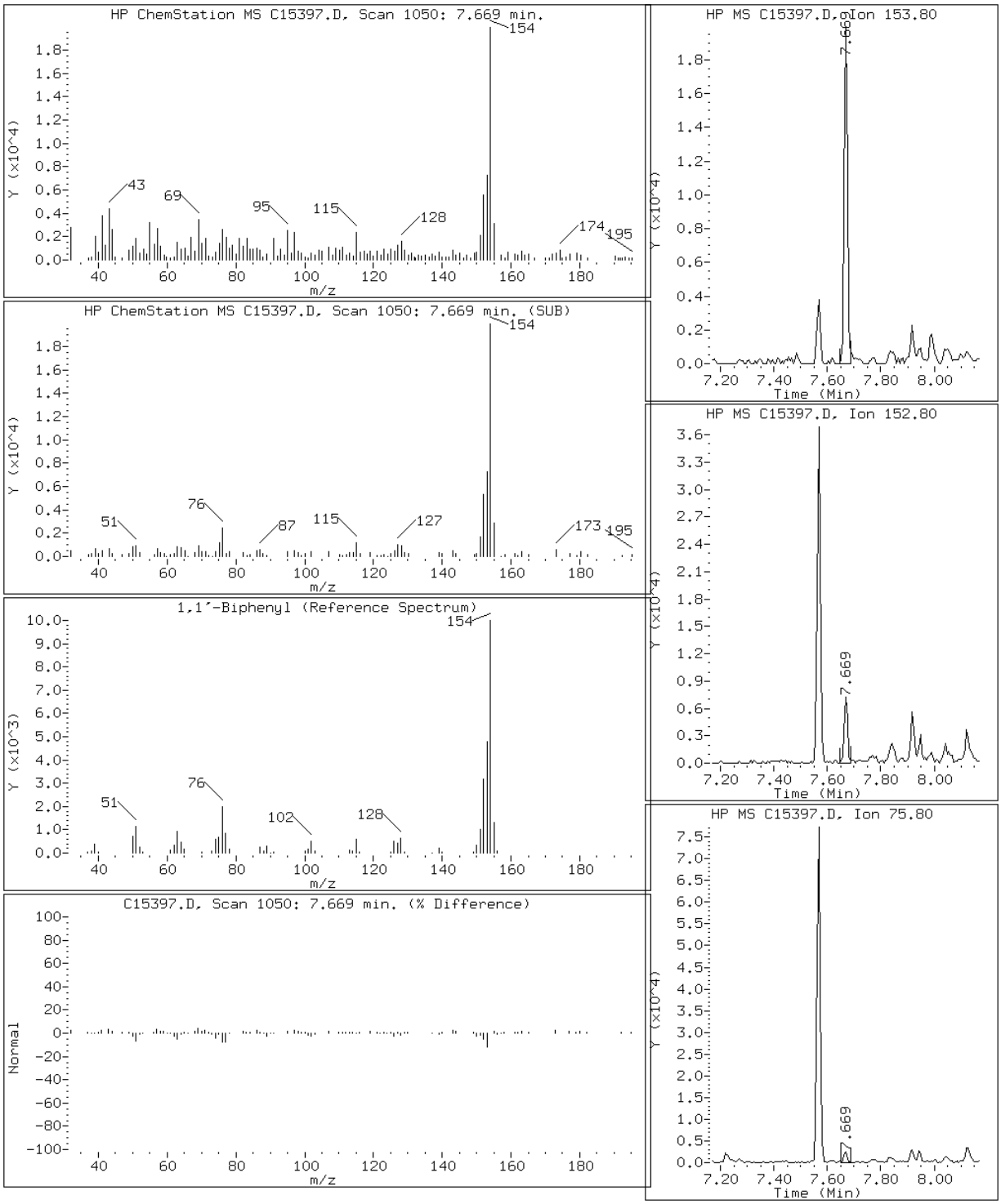
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

130 1,1'-Biphenyl



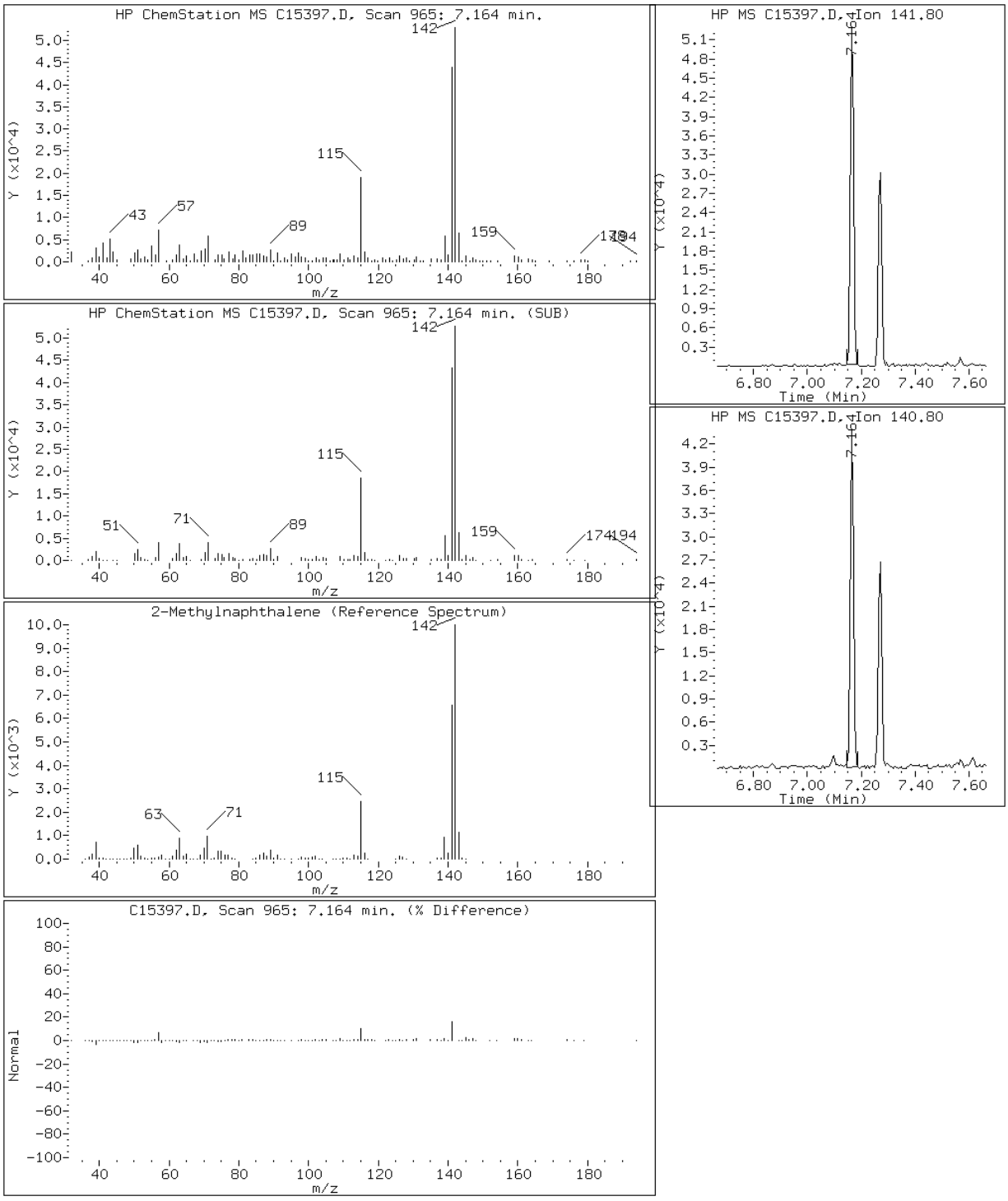
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

34 2-Methylnaphthalene



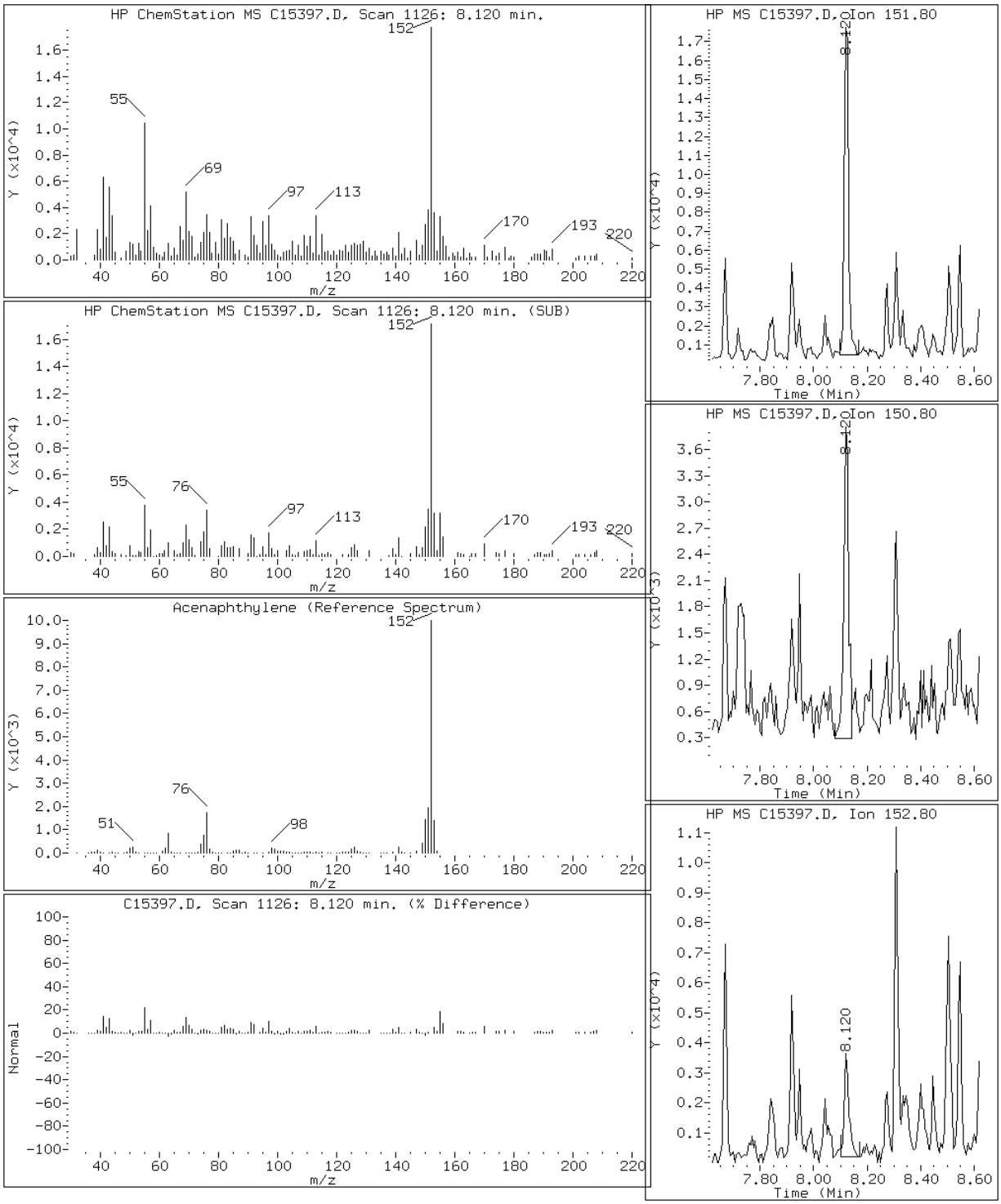
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

43 Acenaphthylene



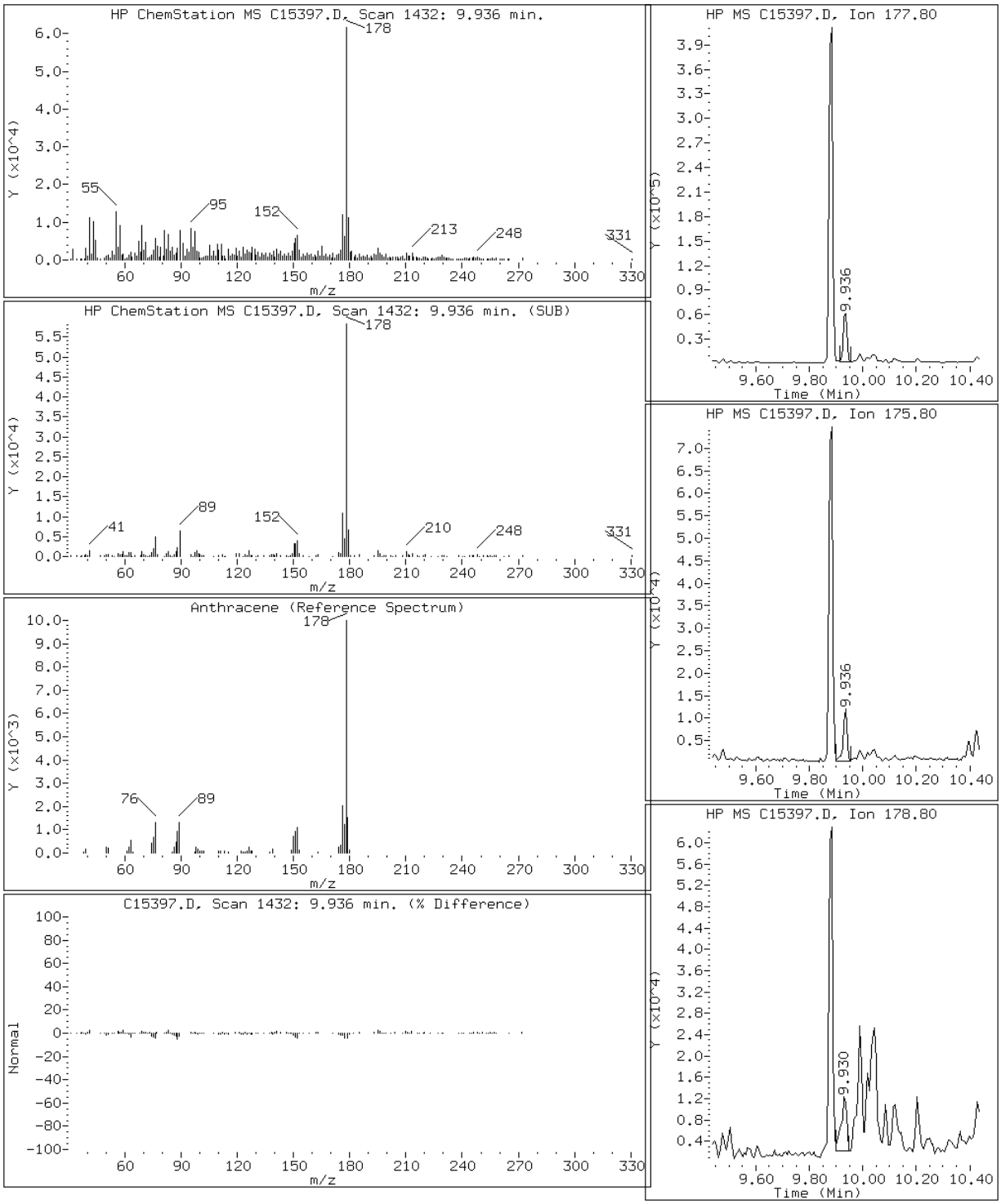
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

66 Anthracene



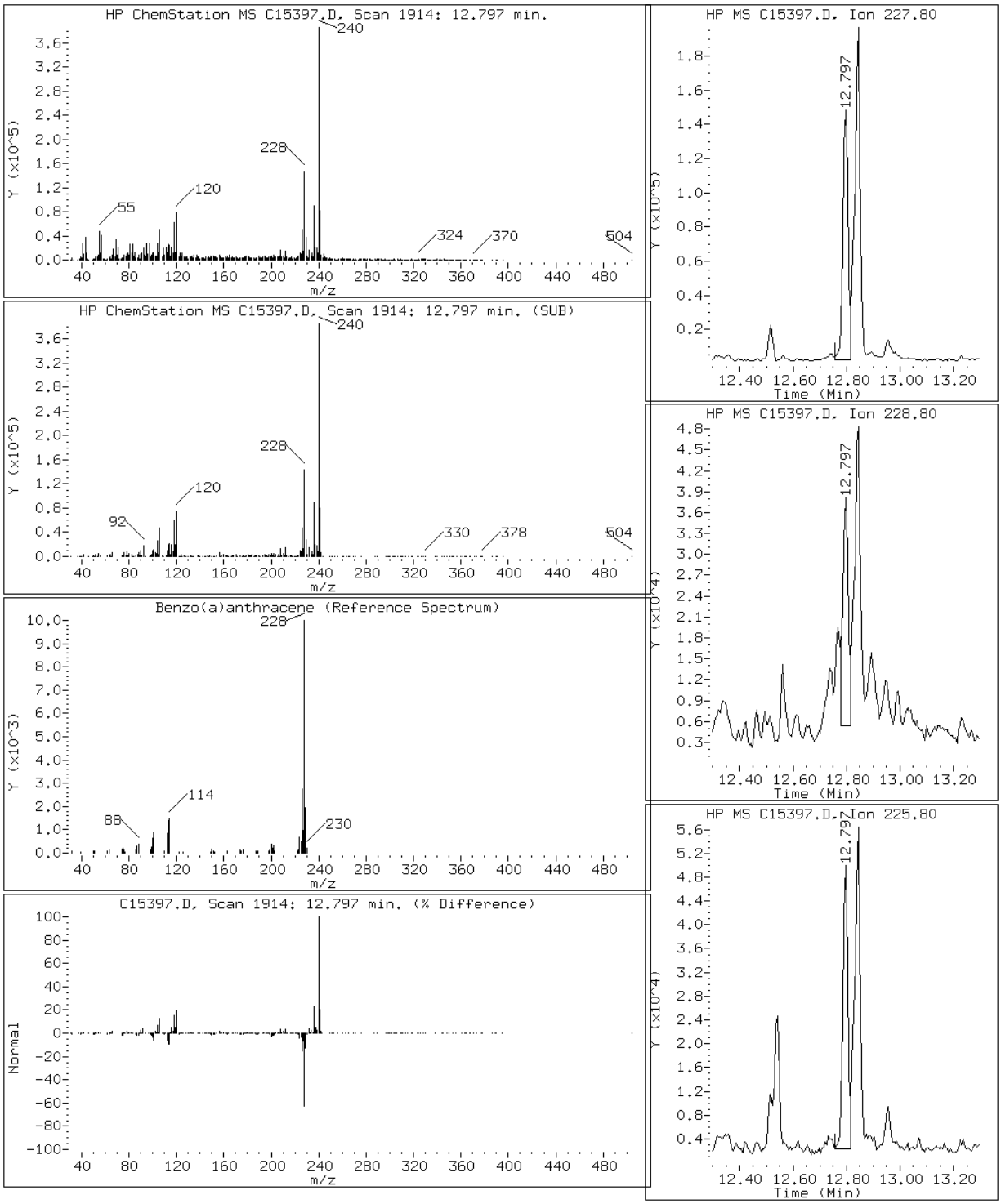
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

76 Benzo(a)anthracene



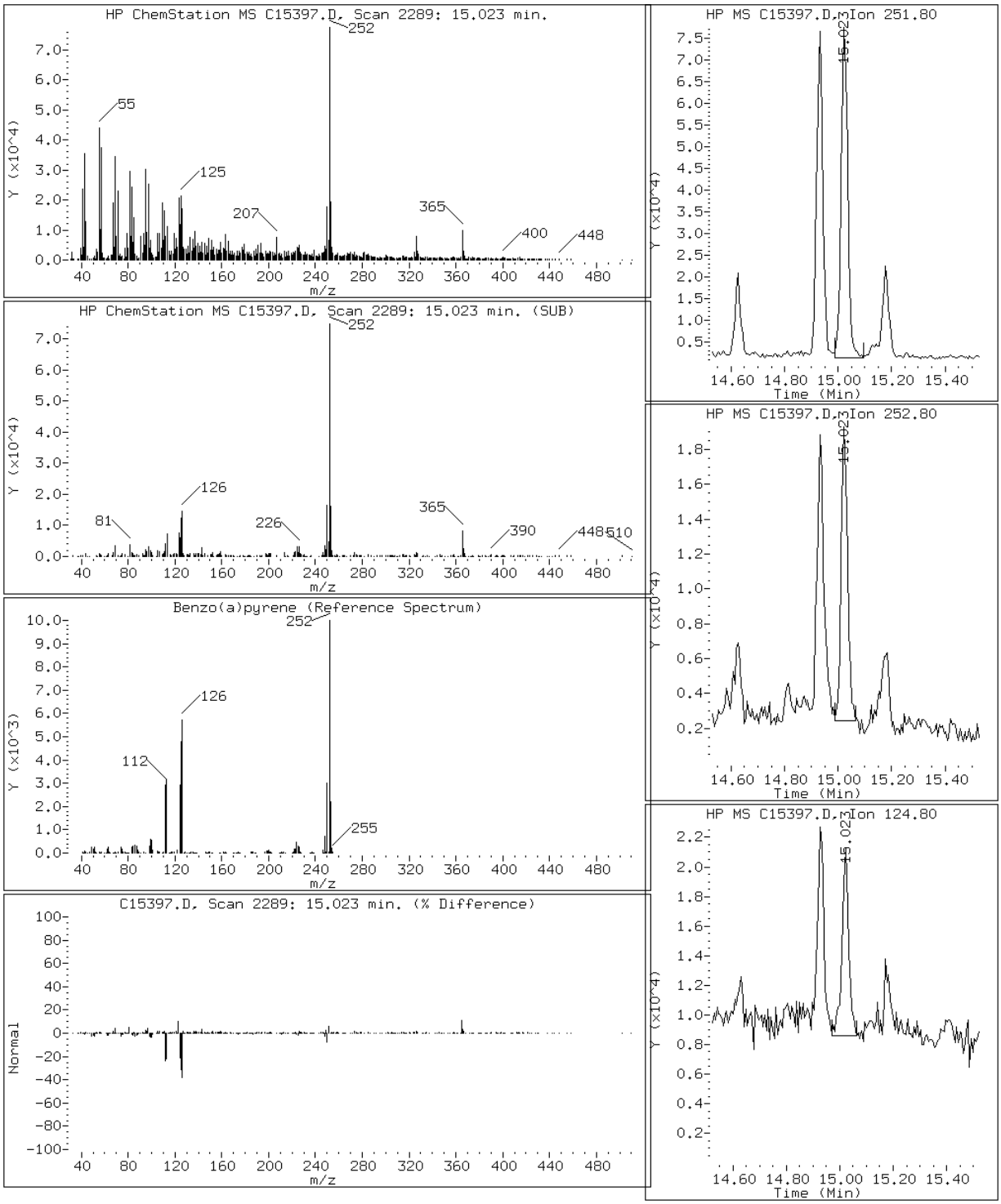
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

83 Benzo(a)pyrene



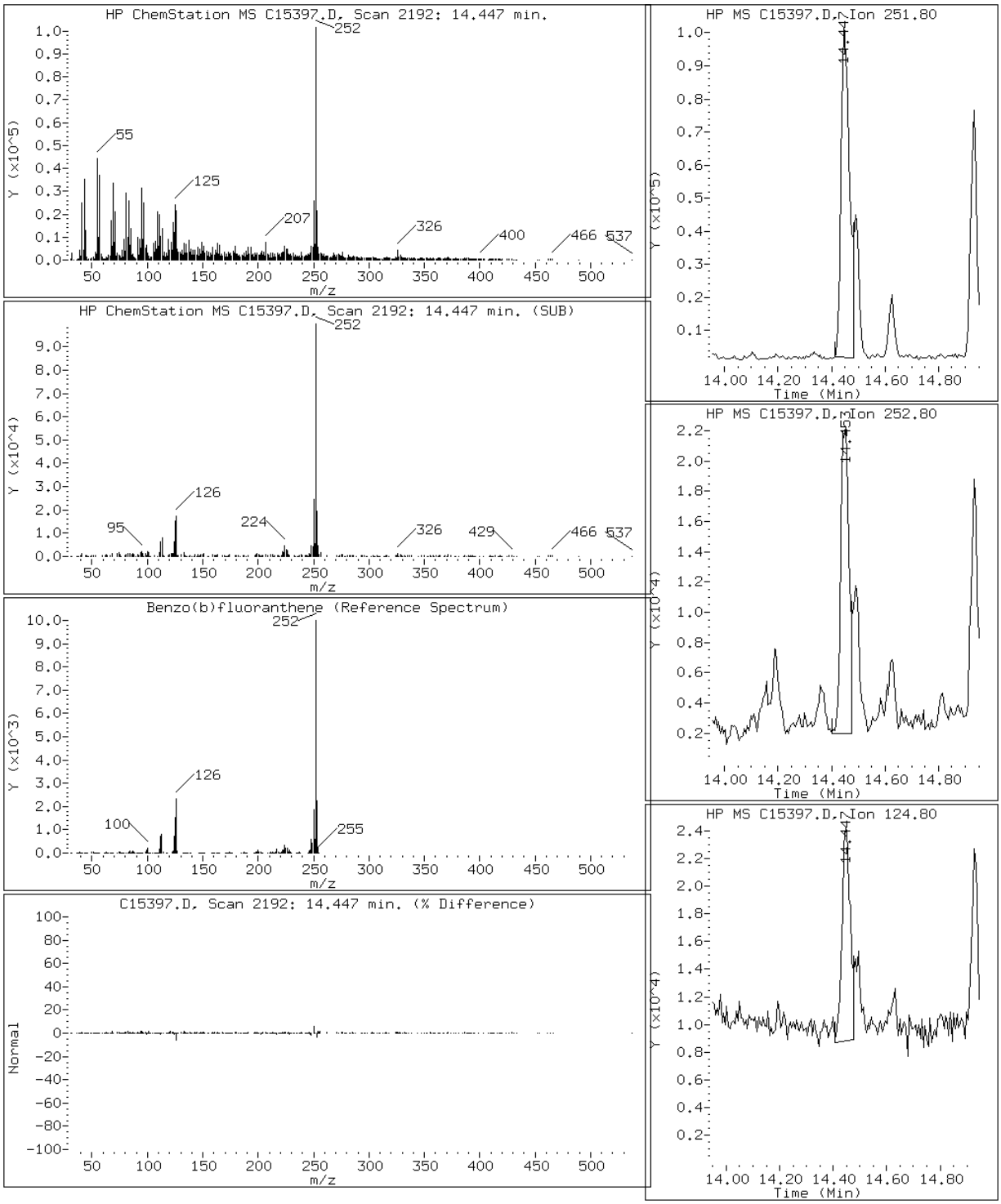
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

81 Benzo(b)fluoranthene



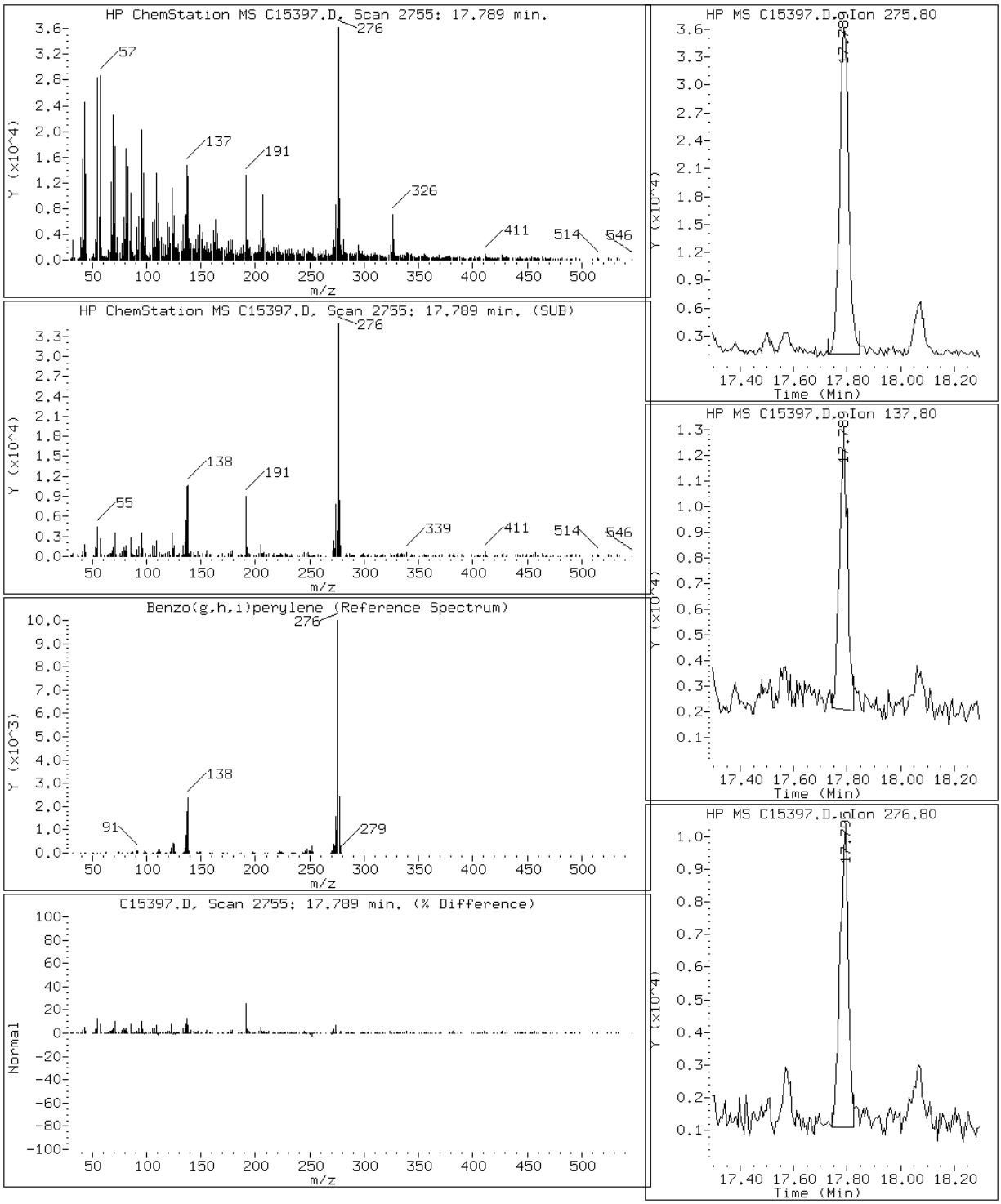
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

86 Benzo(g,h,i)perylene



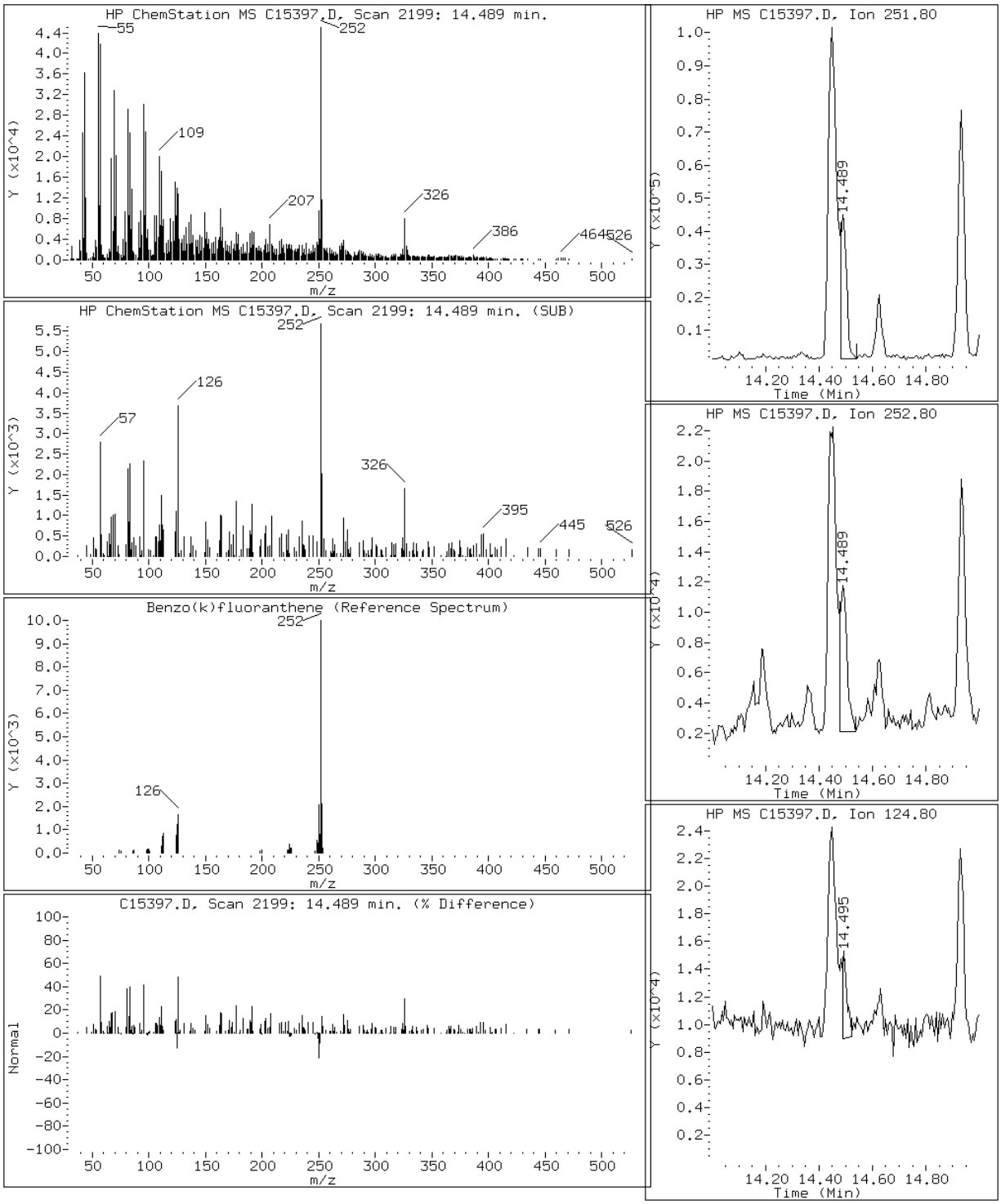
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

82 Benzo(k)fluoranthene



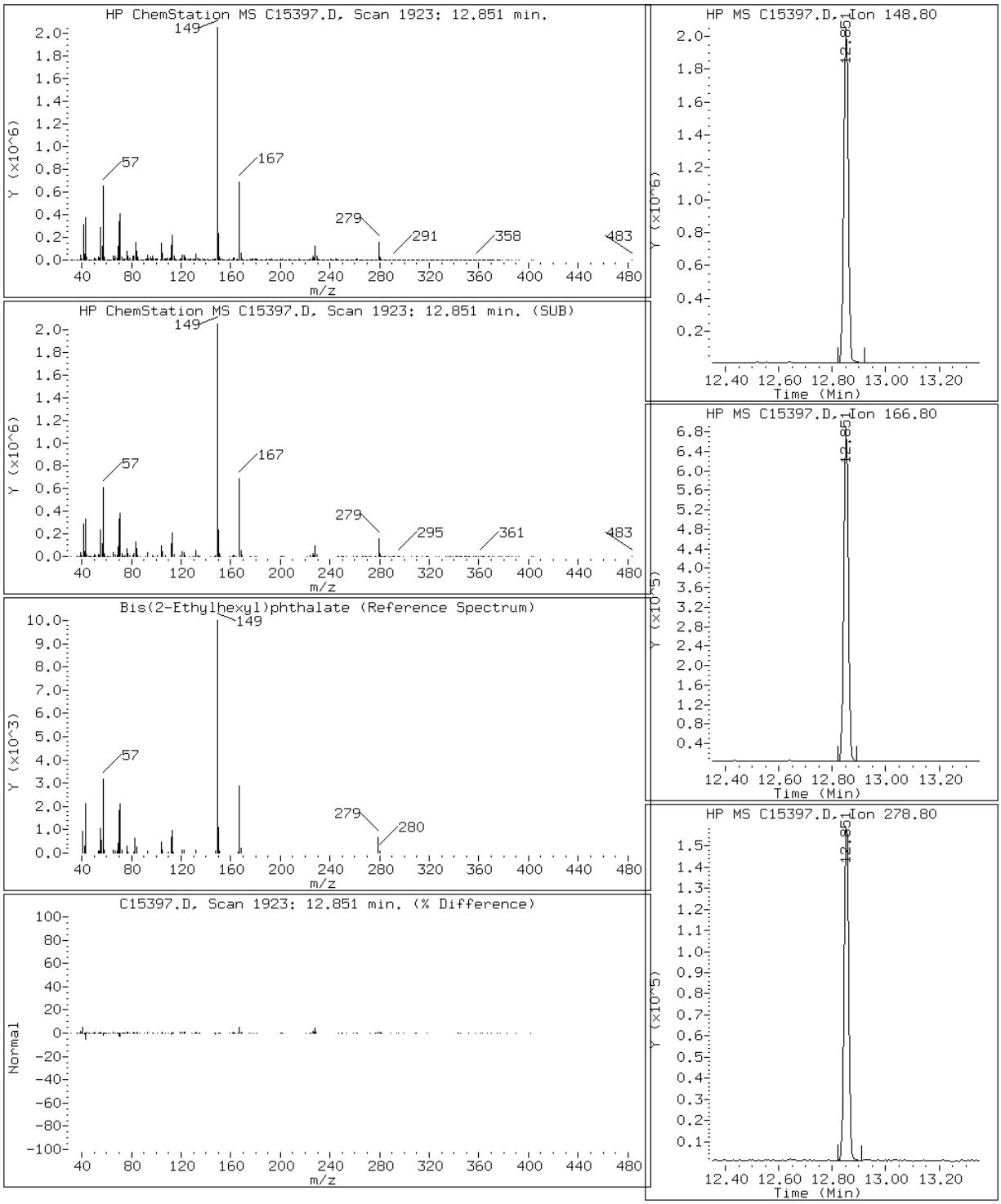
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



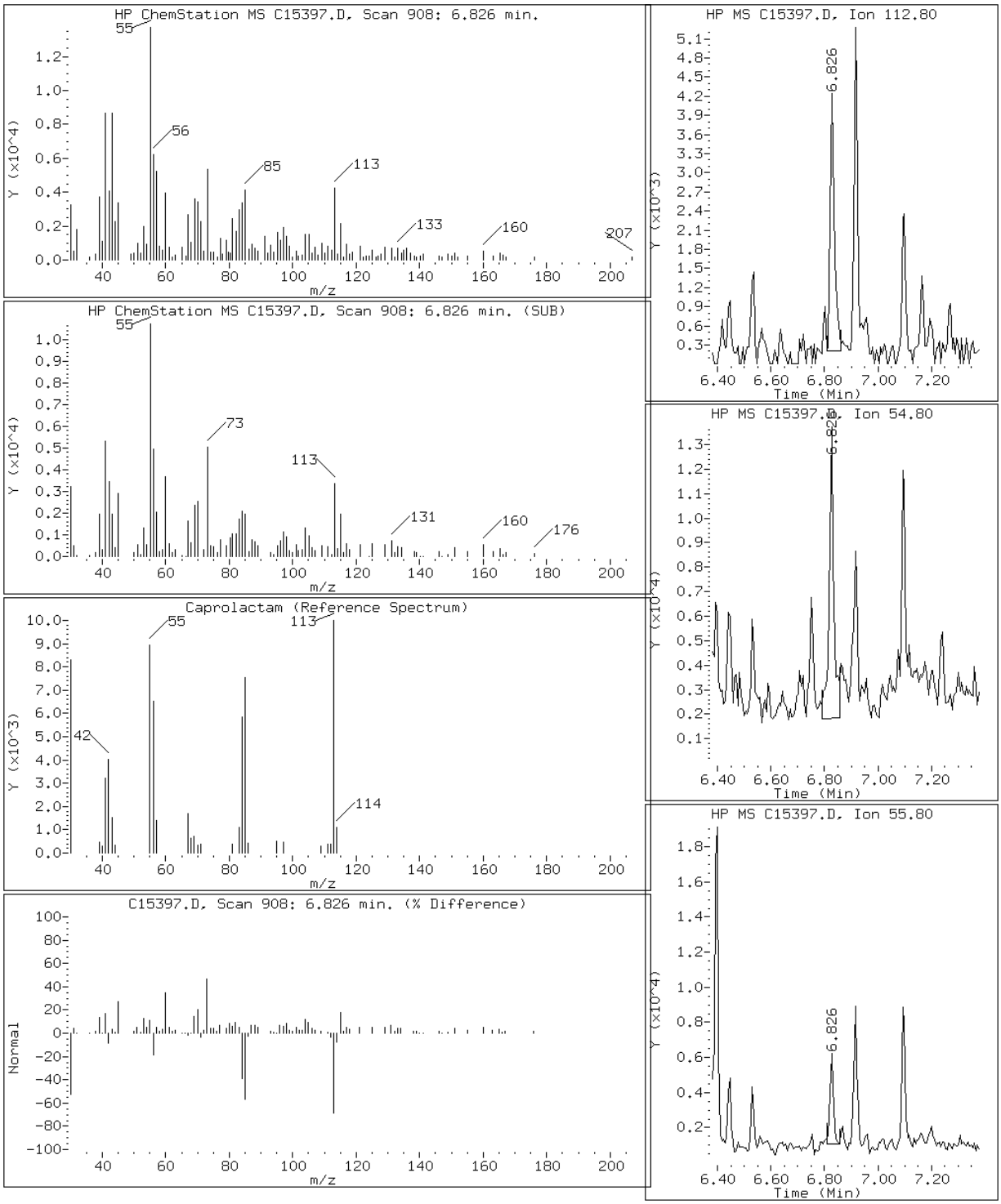
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

129 Caprolactam



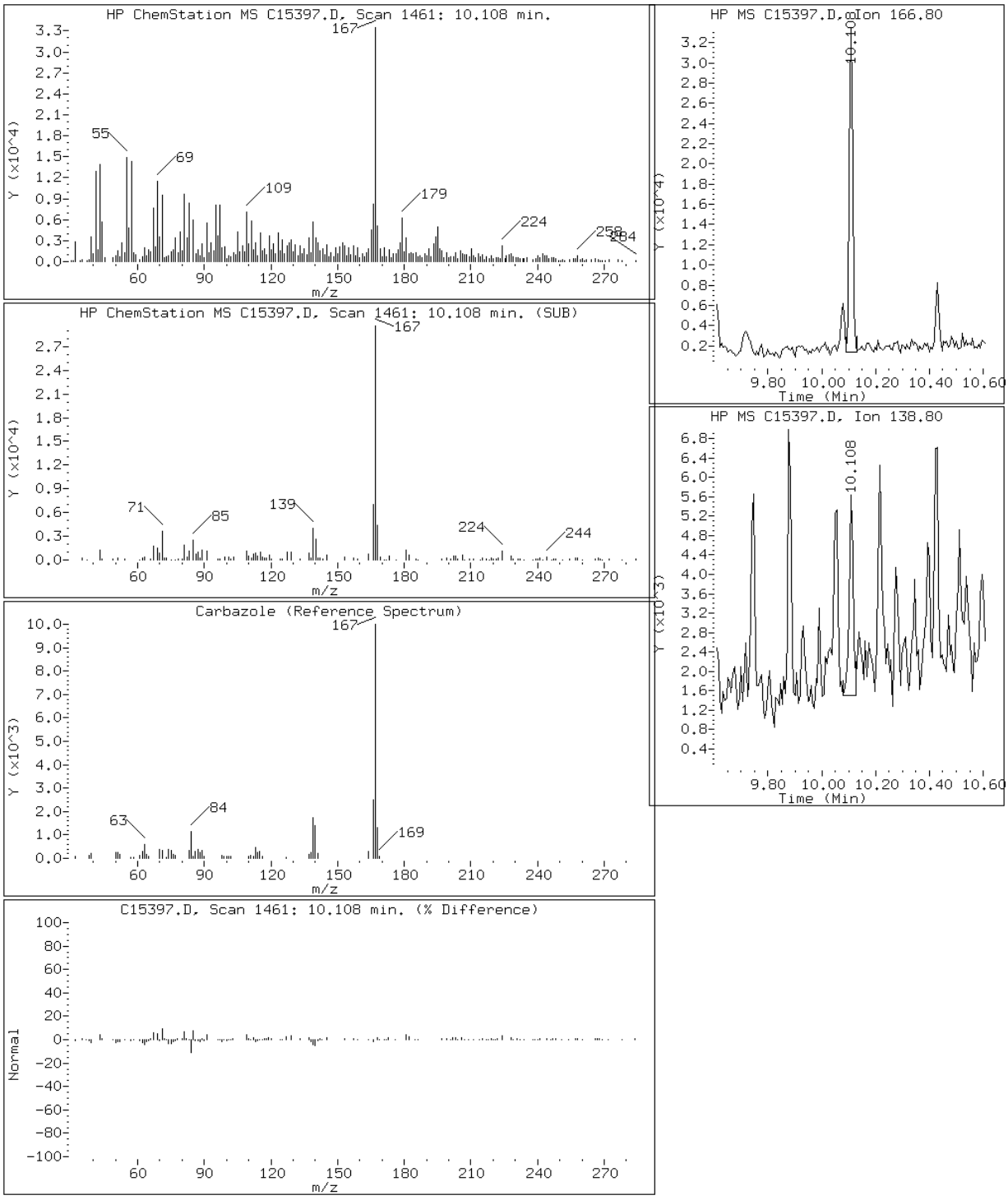
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

65 Carbazole



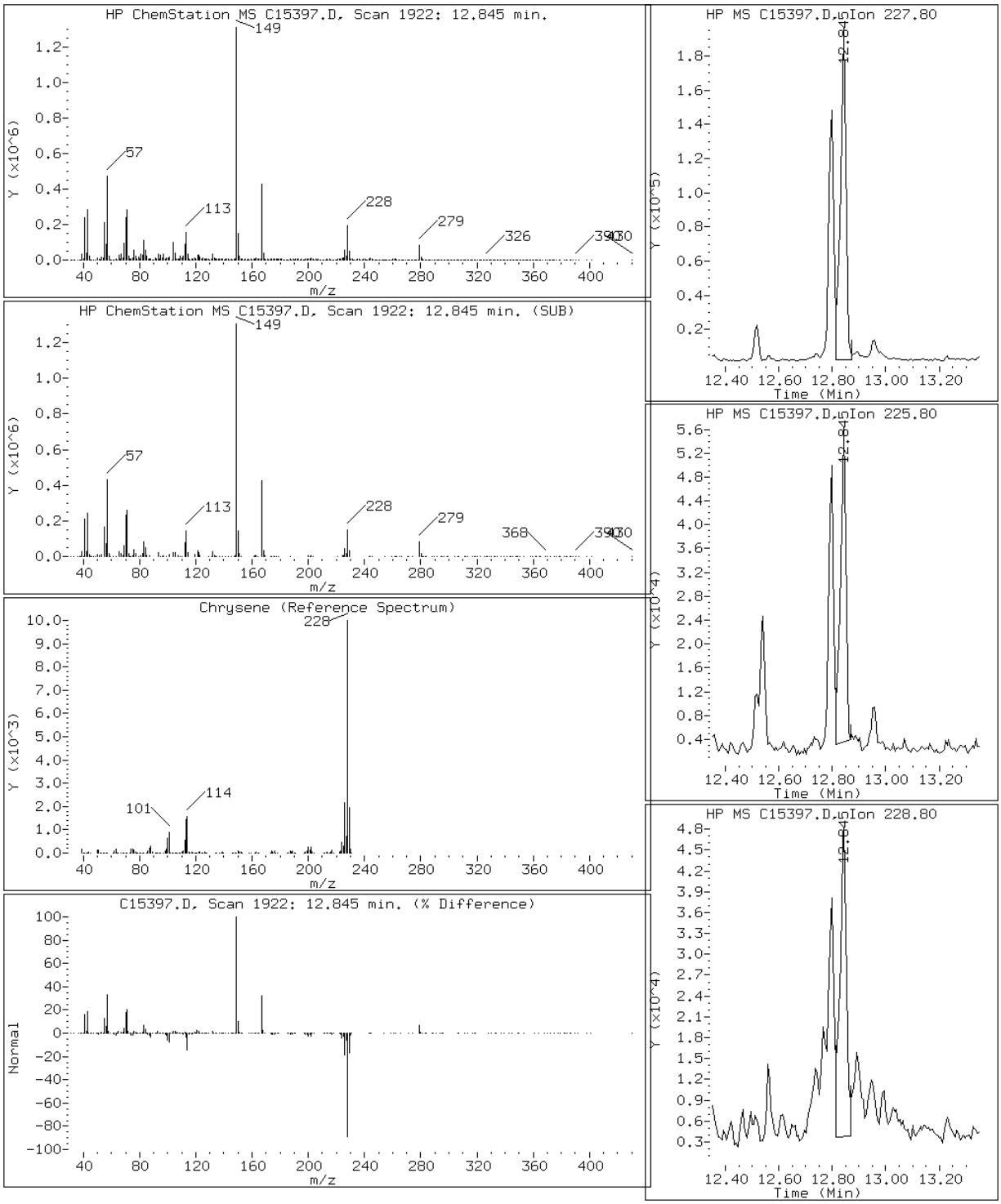
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

77 Chrysene



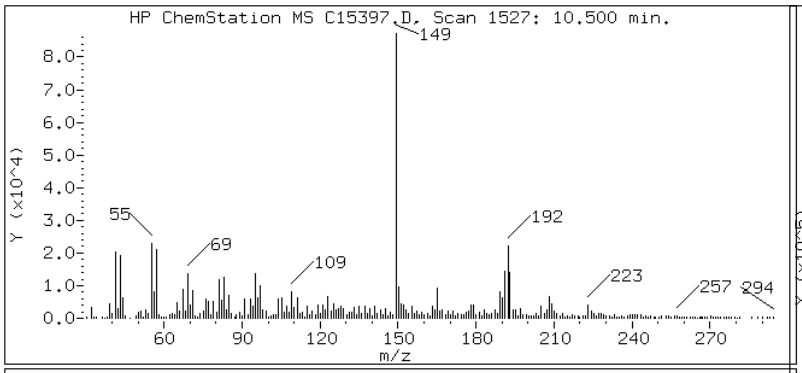
Data File: C15397.D

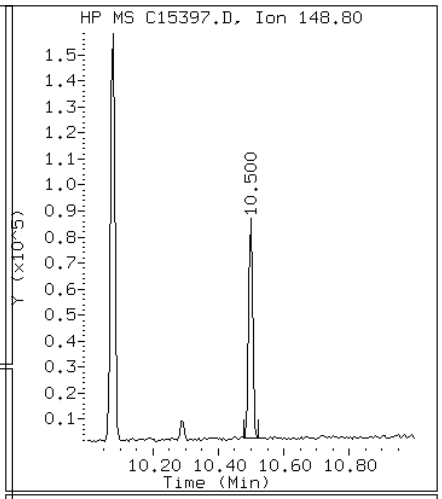
Date: 22-DEC-2009 15:11

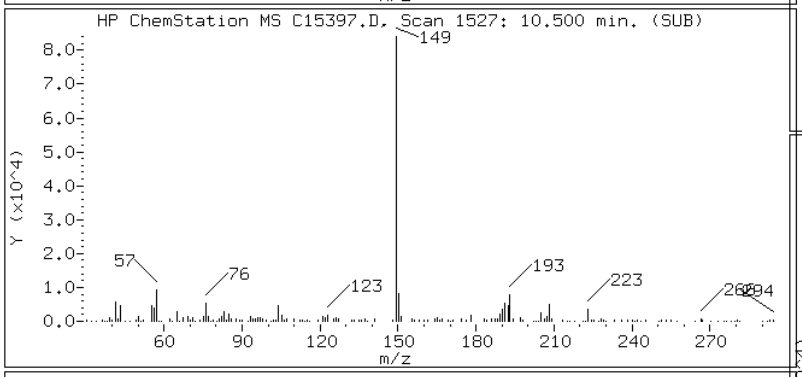
Client ID: PBL-8-60-S(12') Instrument: msc.i

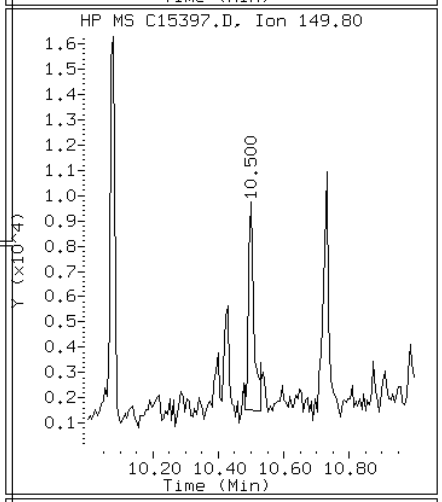
Sample Info: 220-11066-A-13-B Operator: S.Jonas

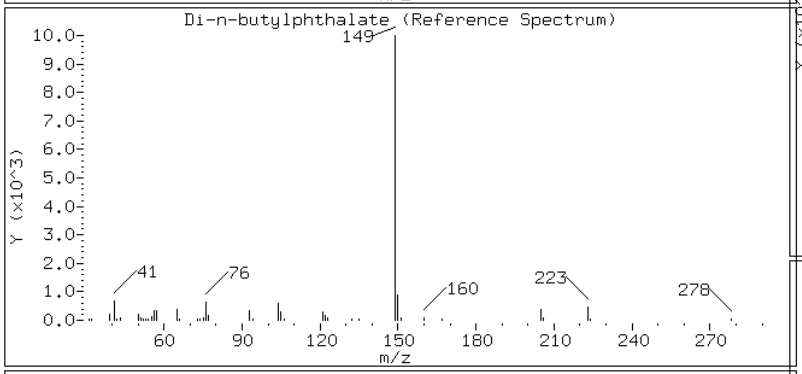
67 Di-n-butylphthalate

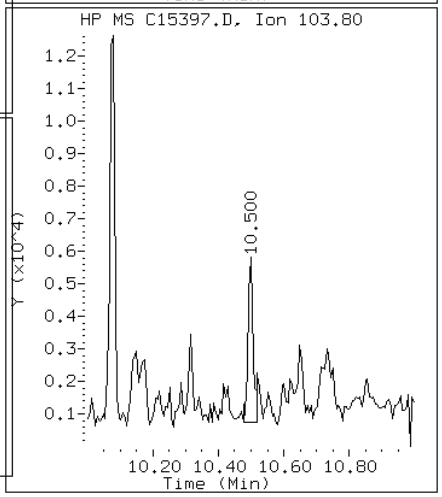


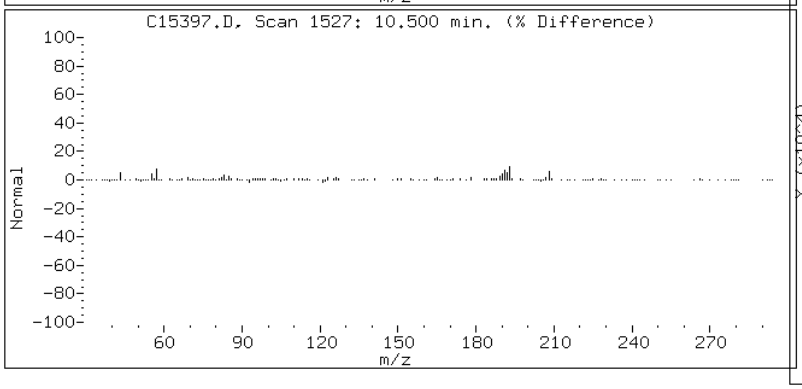












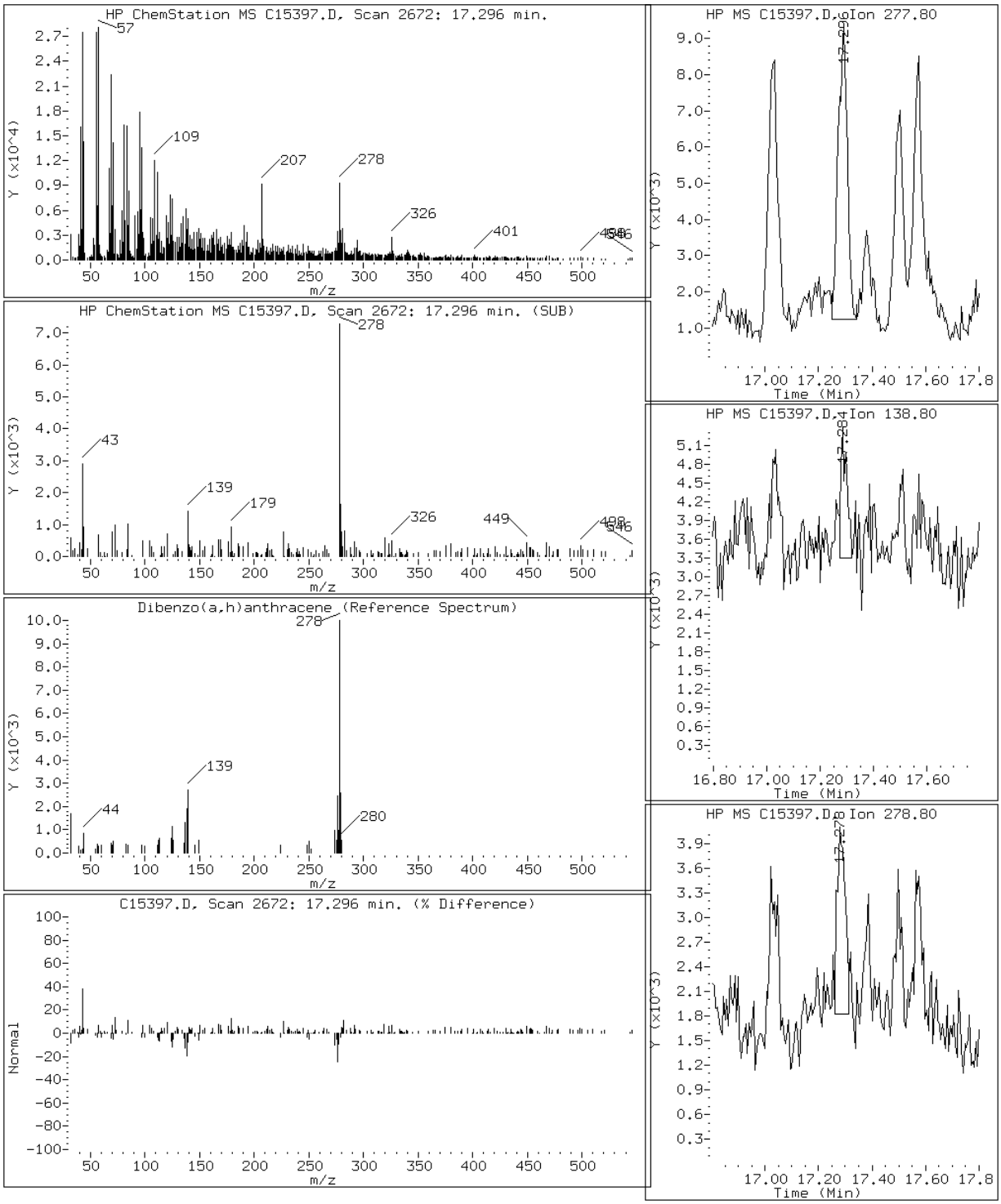
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

85 Dibenzo(a,h)anthracene



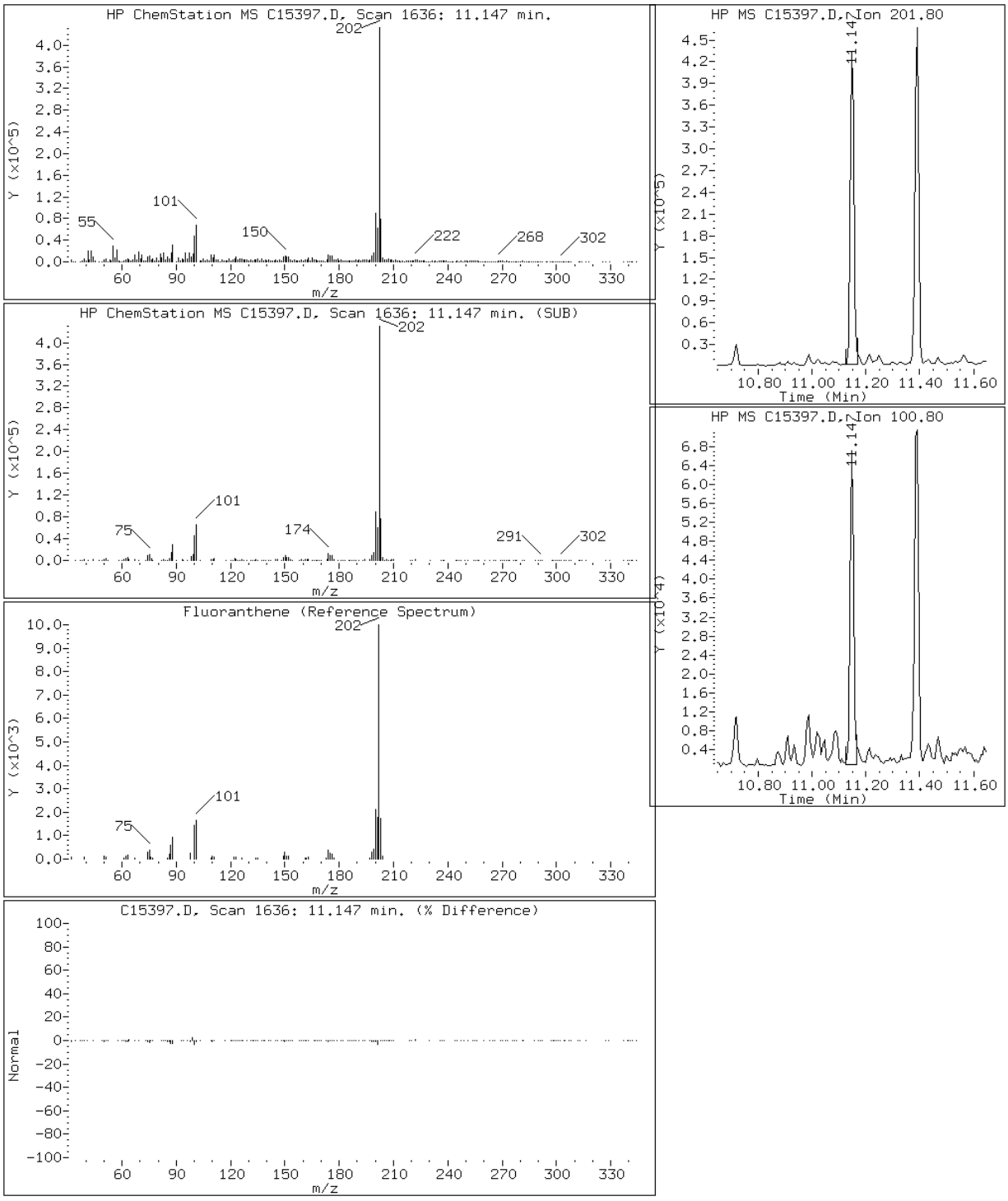
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

68 Fluoranthene



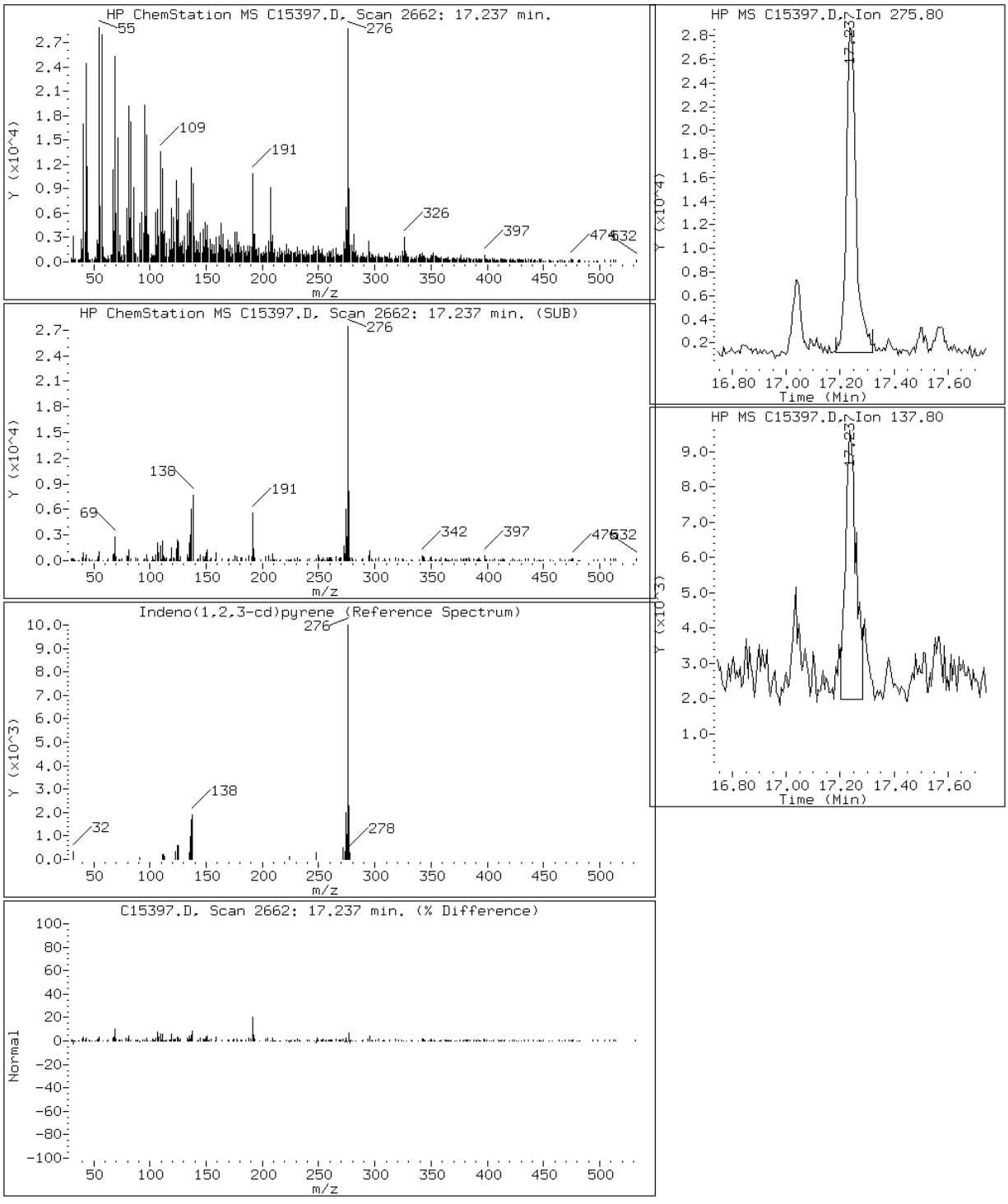
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

84 Indeno(1,2,3-cd)pyrene



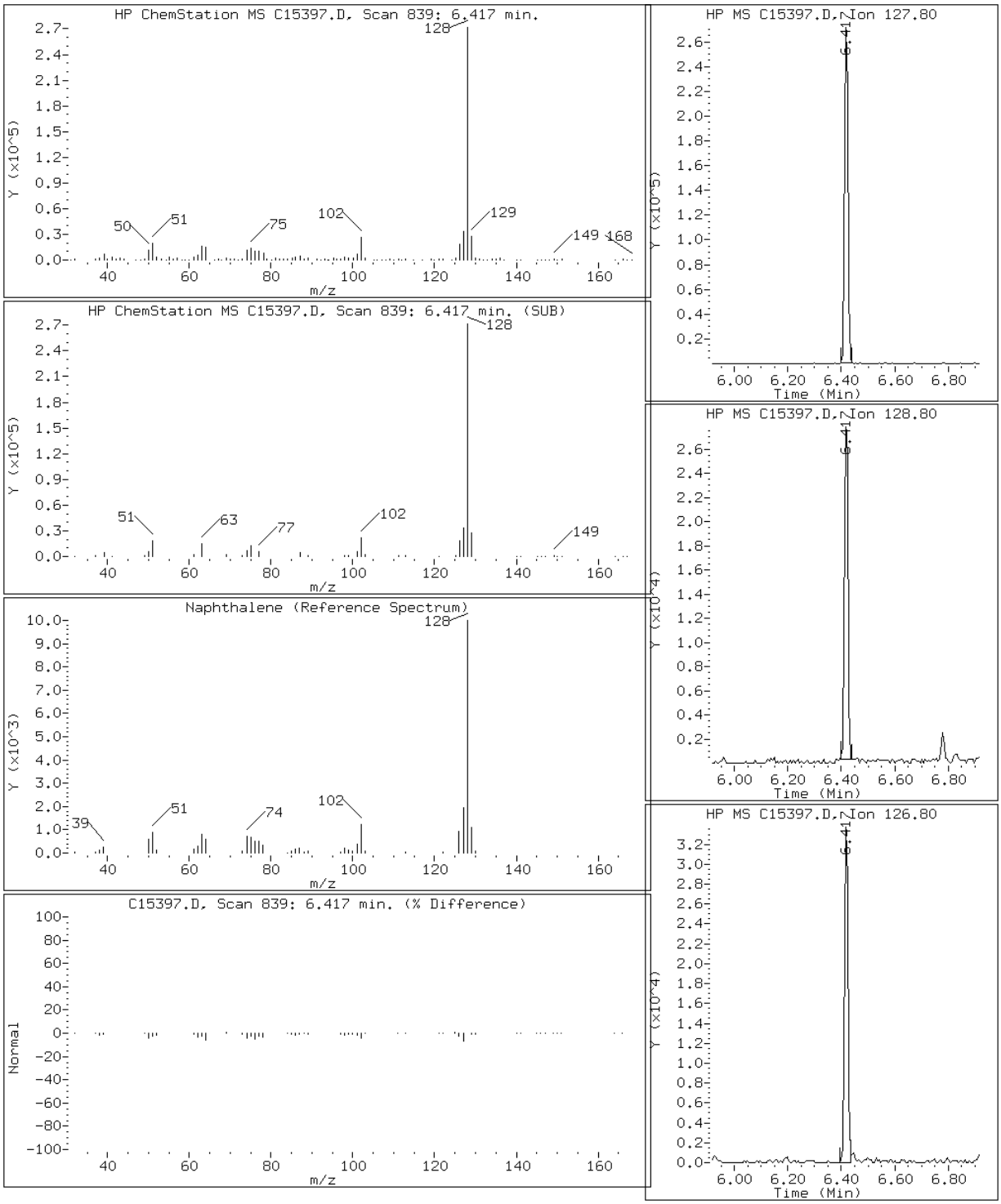
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

30 Naphthalene



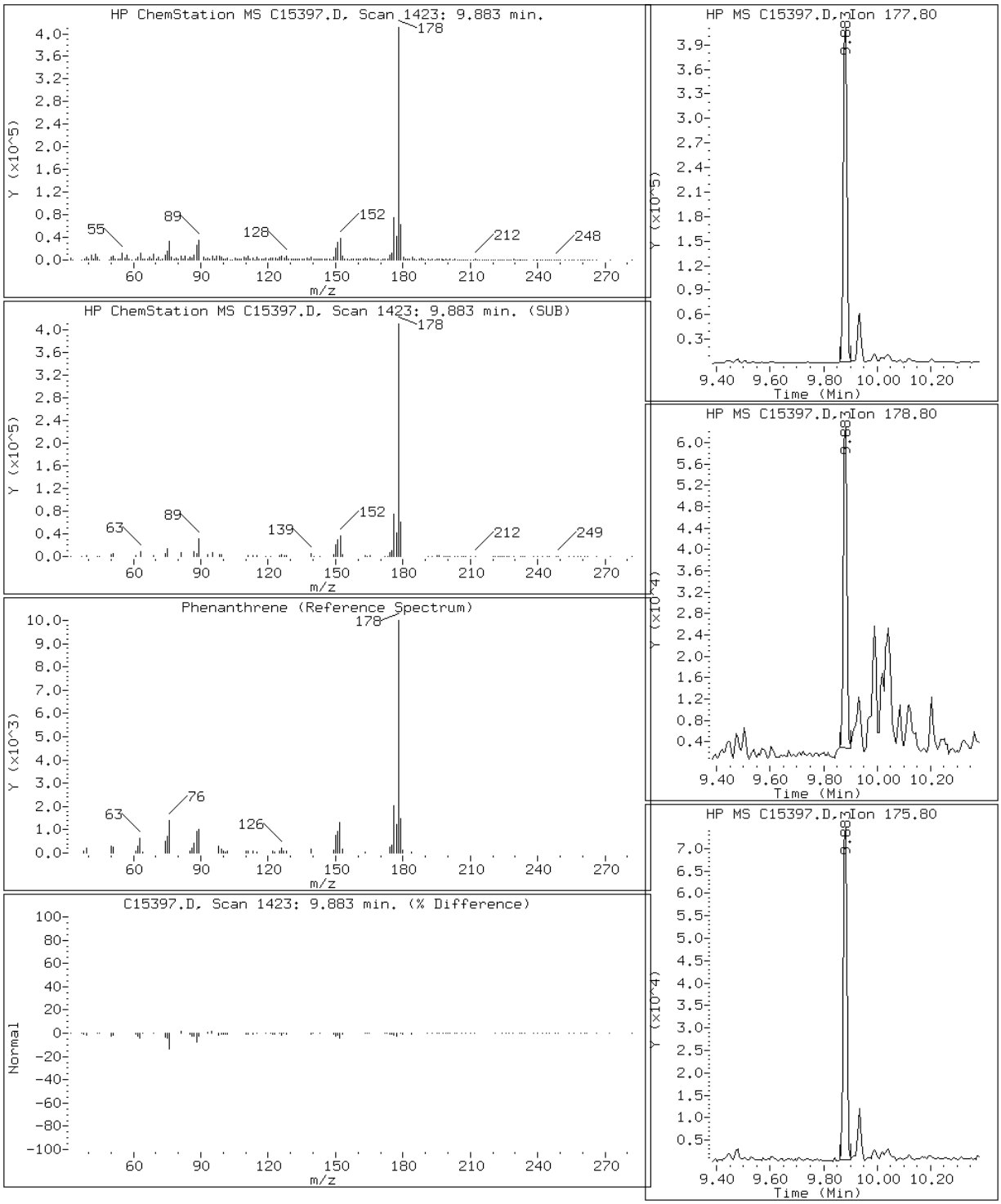
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

64 Phenanthrene



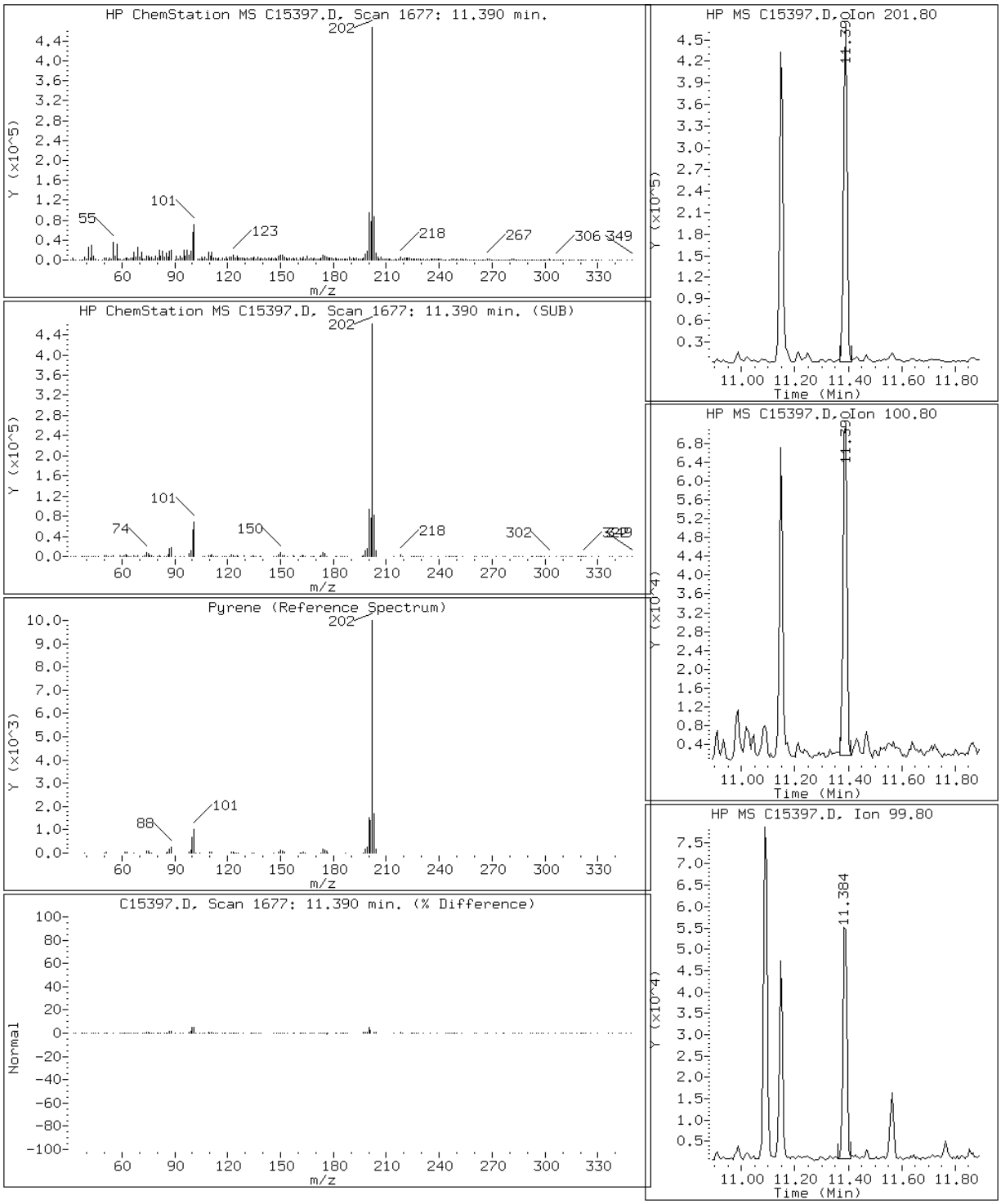
Data File: C15397.D

Date: 22-DEC-2009 15:11

Client ID: PBL-8-60-S(12') Instrument: msc.i

Sample Info: 220-11066-A-13-B Operator: S.Jonas

72 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-1 | Lab Sample ID: 220-11066-14

Matrix: Water | Lab File ID: Z14577.D

Analysis Method: 8270C | Date Collected: 12/15/2009 15:00

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 15:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	4.0	U	4.0	0.37
95-95-4	2,4,5-Trichlorophenol	10	U	10	0.28
88-06-2	2,4,6-Trichlorophenol	4.0	U	4.0	0.37
120-83-2	2,4-Dichlorophenol	4.0	U	4.0	0.33
105-67-9	2,4-Dimethylphenol	4.0	U	4.0	0.33
121-14-2	2,4-Dinitrotoluene	4.0	U	4.0	0.40
51-28-5	2,4-Dinitrophenol	25	U	25	0.43
606-20-2	2,6-Dinitrotoluene	4.0	U	4.0	0.26
91-58-7	2-Chloronaphthalene	4.0	U	4.0	0.39
95-57-8	2-Chlorophenol	4.0	U	4.0	0.23
91-57-6	2-Methylnaphthalene	4.0	U	4.0	0.27
95-48-7	2-Methylphenol	4.0	U	4.0	0.24
88-74-4	2-Nitroaniline	4.0	U	4.0	0.34
88-75-5	2-Nitrophenol	4.0	U	4.0	0.27
91-94-1	3,3'-Dichlorobenzidine	4.0	U	4.0	0.36
99-09-2	3-Nitroaniline	4.0	U	4.0	0.23
534-52-1	4,6-Dinitro-2-methylphenol	25	U	25	1.9
101-55-3	4-Bromophenyl phenyl ether	4.0	U	4.0	0.44
59-50-7	4-Chloro-3-methylphenol	5.0	U	5.0	0.34
106-47-8	4-Chloroaniline	4.0	U	4.0	0.29
7005-72-3	4-Chlorophenyl phenyl ether	4.0	U	4.0	0.35
106-44-5	4-Methylphenol	4.0	U	4.0	0.29
100-01-6	4-Nitroaniline	4.0	U	4.0	0.20
100-02-7	4-Nitrophenol	10	U	10	1.4
83-32-9	Acenaphthene	4.0	U	4.0	0.31
208-96-8	Acenaphthylene	4.0	U	4.0	0.34
98-86-2	Acetophenone	4.0	U	4.0	0.33
120-12-7	Anthracene	4.0	U	4.0	0.29
1912-24-9	Atrazine	4.0	U	4.0	0.18
100-52-7	Benzaldehyde	1.2	J	10	0.68
56-55-3	Benzo[a]anthracene	4.0	U	4.0	0.30
50-32-8	Benzo[a]pyrene	4.0	U	4.0	0.35
205-99-2	Benzo[b]fluoranthene	4.0	U	4.0	0.36
191-24-2	Benzo[g,h,i]perylene	4.0	U	4.0	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-1 | Lab Sample ID: 220-11066-14

Matrix: Water | Lab File ID: Z14577.D

Analysis Method: 8270C | Date Collected: 12/15/2009 15:00

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 15:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	4.0	U	4.0	0.40
111-91-1	Bis(2-chloroethoxy)methane	4.0	U	4.0	0.31
111-44-4	Bis(2-chloroethyl)ether	4.0	U	4.0	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	4.0	U	4.0	0.54
85-68-7	Butyl benzyl phthalate	4.0	U	4.0	0.35
105-60-2	Caprolactam	4.0	U	4.0	0.92
86-74-8	Carbazole	4.0	U	4.0	0.33
218-01-9	Chrysene	4.0	U	4.0	0.25
84-74-2	Di-n-butyl phthalate	4.0	U	4.0	0.35
117-84-0	Di-n-octyl phthalate	4.0	U	4.0	0.38
53-70-3	Dibenz(a,h)anthracene	4.0	U	4.0	0.38
132-64-9	Dibenzofuran	4.0	U	4.0	0.43
84-66-2	Diethyl phthalate	4.0	U	4.0	0.43
131-11-3	Dimethyl phthalate	4.0	U	4.0	0.38
206-44-0	Fluoranthene	4.0	U	4.0	0.31
86-73-7	Fluorene	4.0	U	4.0	0.26
118-74-1	Hexachlorobenzene	4.0	U	4.0	0.33
87-68-3	Hexachlorobutadiene	4.0	U	4.0	0.20
77-47-4	Hexachlorocyclopentadiene	4.0	U	4.0	0.35
67-72-1	Hexachloroethane	4.0	U	4.0	0.37
193-39-5	Indeno[1,2,3-cd]pyrene	4.0	U	4.0	0.28
78-59-1	Isophorone	4.0	U	4.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	4.0	U	4.0	0.33
86-30-6	N-Nitrosodiphenylamine	4.0	U	4.0	0.33
91-20-3	Naphthalene	4.0	U	4.0	0.30
98-95-3	Nitrobenzene	4.0	U	4.0	0.28
87-86-5	Pentachlorophenol	25	U	25	0.31
85-01-8	Phenanthrene	4.0	U	4.0	0.28
108-95-2	Phenol	4.0	U	4.0	0.19
129-00-0	Pyrene	4.0	U	4.0	0.33
108-60-1	2,2'-oxybis[1-chloropropane]	4.0	U	4.0	0.25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-1 | Lab Sample ID: 220-11066-14

Matrix: Water | Lab File ID: Z14577.D

Analysis Method: 8270C | Date Collected: 12/15/2009 15:00

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 15:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	69	36-120	
321-60-8	2-Fluorobiphenyl	63	39-120	
367-12-4	2-Fluorophenol	33	13-120	
4165-60-0	Nitrobenzene-d5	62	40-120	
4165-62-2	Phenol-d5	23	10-120	
1718-51-0	Terphenyl-d14	85	10-120	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14577.D
Lab Smp Id: 220-11066-A-14-A Client Smp ID: FB-1
Inj Date : 21-DEC-2009 15:36
Operator : S.Jonas Inst ID: msz.i
Smp Info : 220-11066-A-14-A
Misc Info : 220-11066-A-14-A
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

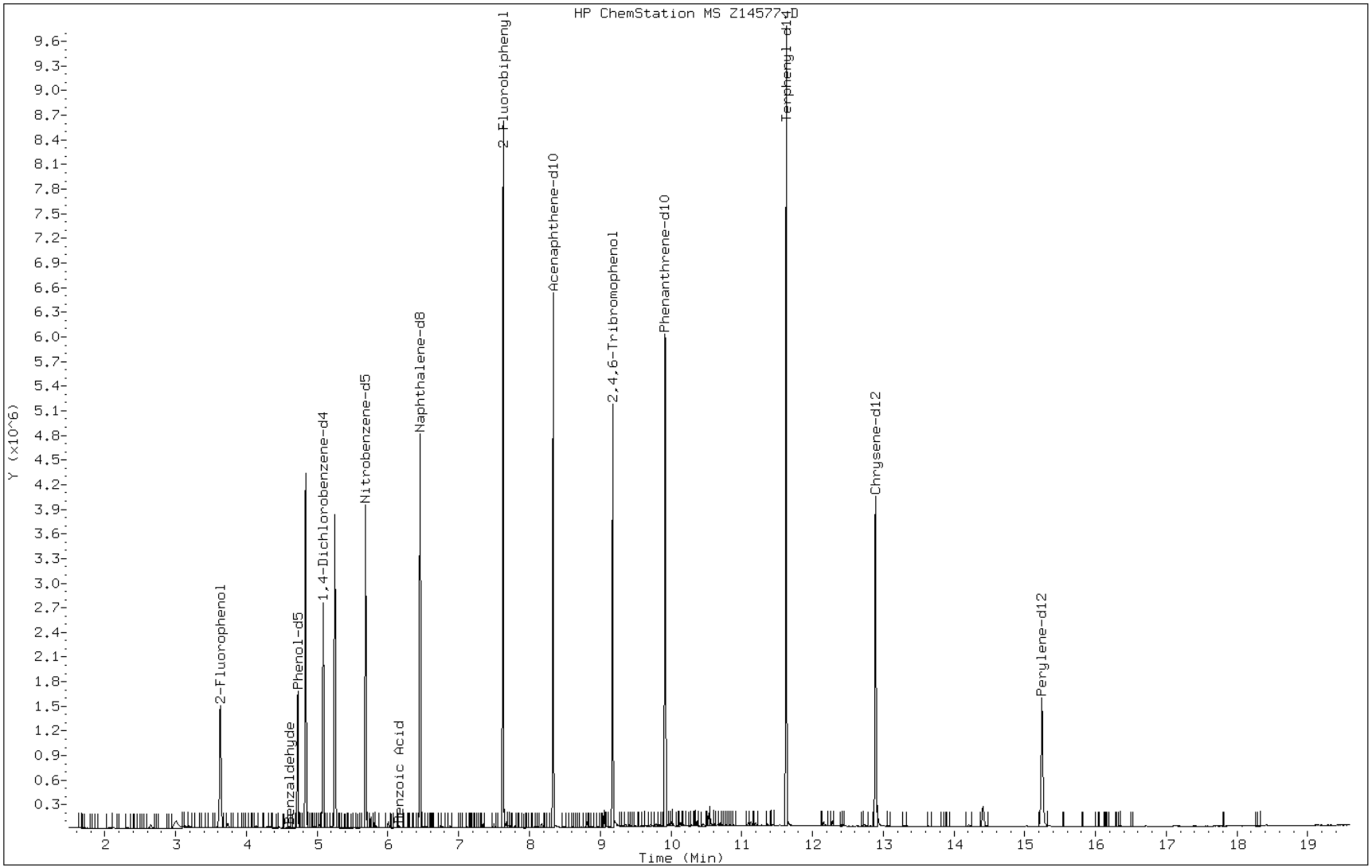
		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.086	5.087	(1.000)	521196	20.0000	
$	2 2-Fluorophenol	112	3.633	3.634	(0.714)	768454	24.7756	25
$	3 Phenol-d5	99	4.727	4.734	(0.929)	700980	17.0610	17
	128 Benzaldehyde	77	4.604	4.604	(0.905)	4688	1.18657	1
*	20 Naphthalene-d8	136	6.451	6.457	(1.000)	2307412	20.0000	
$	21 Nitrobenzene-d5	82	5.686	5.693	(0.881)	1187602	31.0652	31
	26 Benzoic Acid	122	6.168	6.281	(0.956)	5073	6.25539	6
*	35 Acenaphthene-d10	164	8.333	8.339	(1.000)	1463453	20.0000	
$	40 2-Fluorobiphenyl	172	7.627	7.634	(0.915)	2796746	31.3290	31
$	56 2,4,6-Tribromophenol	330	9.180	9.186	(1.102)	662310	52.0945	52
*	57 Phenanthrene-d10	188	9.915	9.922	(1.000)	2387952	20.0000	
*	70 Chrysene-d12	240	12.892	12.904	(1.000)	1889248	20.0000	
$	73 Terphenyl-d14	244	11.627	11.633	(0.902)	3356199	42.5936	43
*	79 Perylene-d12	264	15.244	15.257	(1.000)	880874	20.0000	

Data File: Z14577.D

Date: 21-DEC-2009 15:36

Client ID: FB-1 Instrument: msz.i

Sample Info: 220-11066-A-14-A Operator: S.Jonas



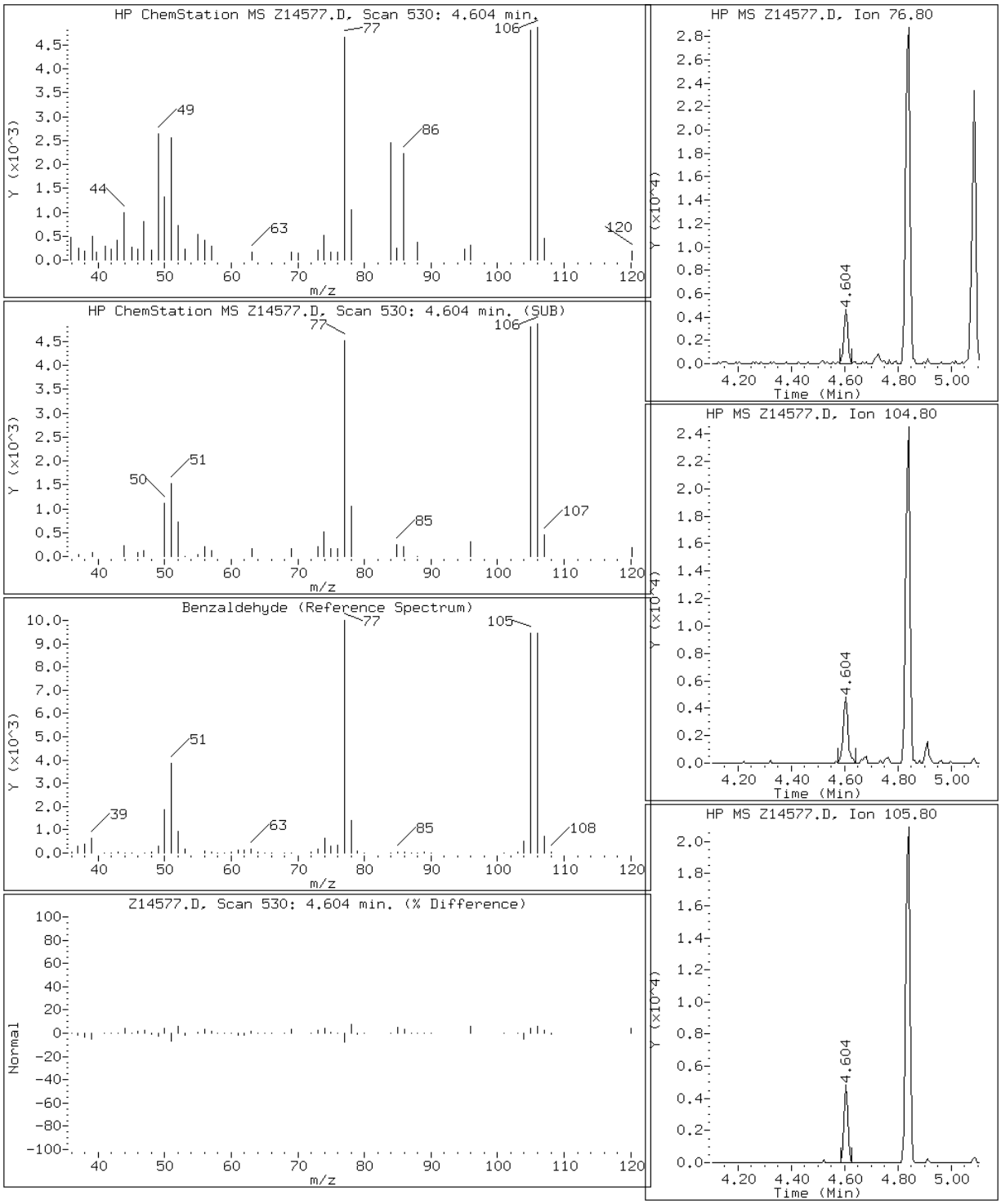
Data File: Z14577.D

Date: 21-DEC-2009 15:36

Client ID: FB-1 Instrument: msz.i

Sample Info: 220-11066-A-14-A Operator: S.Jonas

128 Benzaldehyde



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-2 | Lab Sample ID: 220-11066-15

Matrix: Water | Lab File ID: Z14578.D

Analysis Method: 8270C | Date Collected: 12/15/2009 14:25

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 16:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	4.0	U	4.0	0.37
95-95-4	2,4,5-Trichlorophenol	10	U	10	0.28
88-06-2	2,4,6-Trichlorophenol	4.0	U	4.0	0.37
120-83-2	2,4-Dichlorophenol	4.0	U	4.0	0.33
105-67-9	2,4-Dimethylphenol	4.0	U	4.0	0.33
121-14-2	2,4-Dinitrotoluene	4.0	U	4.0	0.40
51-28-5	2,4-Dinitrophenol	25	U	25	0.43
606-20-2	2,6-Dinitrotoluene	4.0	U	4.0	0.26
91-58-7	2-Chloronaphthalene	4.0	U	4.0	0.39
95-57-8	2-Chlorophenol	4.0	U	4.0	0.23
91-57-6	2-Methylnaphthalene	4.0	U	4.0	0.27
95-48-7	2-Methylphenol	4.0	U	4.0	0.24
88-74-4	2-Nitroaniline	4.0	U	4.0	0.34
88-75-5	2-Nitrophenol	4.0	U	4.0	0.27
91-94-1	3,3'-Dichlorobenzidine	4.0	U	4.0	0.36
99-09-2	3-Nitroaniline	4.0	U	4.0	0.23
534-52-1	4,6-Dinitro-2-methylphenol	25	U	25	1.9
101-55-3	4-Bromophenyl phenyl ether	4.0	U	4.0	0.44
59-50-7	4-Chloro-3-methylphenol	5.0	U	5.0	0.34
106-47-8	4-Chloroaniline	4.0	U	4.0	0.29
7005-72-3	4-Chlorophenyl phenyl ether	4.0	U	4.0	0.35
106-44-5	4-Methylphenol	4.0	U	4.0	0.29
100-01-6	4-Nitroaniline	4.0	U	4.0	0.20
100-02-7	4-Nitrophenol	10	U	10	1.4
83-32-9	Acenaphthene	4.0	U	4.0	0.31
208-96-8	Acenaphthylene	4.0	U	4.0	0.34
98-86-2	Acetophenone	4.0	U	4.0	0.33
120-12-7	Anthracene	4.0	U	4.0	0.29
1912-24-9	Atrazine	4.0	U	4.0	0.18
100-52-7	Benzaldehyde	0.99	J	10	0.68
56-55-3	Benzo[a]anthracene	4.0	U	4.0	0.30
50-32-8	Benzo[a]pyrene	4.0	U	4.0	0.35
205-99-2	Benzo[b]fluoranthene	4.0	U	4.0	0.36
191-24-2	Benzo[g,h,i]perylene	4.0	U	4.0	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-2 | Lab Sample ID: 220-11066-15

Matrix: Water | Lab File ID: Z14578.D

Analysis Method: 8270C | Date Collected: 12/15/2009 14:25

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 16:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	4.0	U	4.0	0.40
111-91-1	Bis(2-chloroethoxy)methane	4.0	U	4.0	0.31
111-44-4	Bis(2-chloroethyl)ether	4.0	U	4.0	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	4.0	U	4.0	0.54
85-68-7	Butyl benzyl phthalate	4.0	U	4.0	0.35
105-60-2	Caprolactam	4.0	U	4.0	0.92
86-74-8	Carbazole	4.0	U	4.0	0.33
218-01-9	Chrysene	4.0	U	4.0	0.25
84-74-2	Di-n-butyl phthalate	4.0	U	4.0	0.35
117-84-0	Di-n-octyl phthalate	4.0	U	4.0	0.38
53-70-3	Dibenz(a,h)anthracene	4.0	U	4.0	0.38
132-64-9	Dibenzofuran	4.0	U	4.0	0.43
84-66-2	Diethyl phthalate	4.0	U	4.0	0.43
131-11-3	Dimethyl phthalate	4.0	U	4.0	0.38
206-44-0	Fluoranthene	4.0	U	4.0	0.31
86-73-7	Fluorene	4.0	U	4.0	0.26
118-74-1	Hexachlorobenzene	4.0	U	4.0	0.33
87-68-3	Hexachlorobutadiene	4.0	U	4.0	0.20
77-47-4	Hexachlorocyclopentadiene	4.0	U	4.0	0.35
67-72-1	Hexachloroethane	4.0	U	4.0	0.37
193-39-5	Indeno[1,2,3-cd]pyrene	4.0	U	4.0	0.28
78-59-1	Isophorone	4.0	U	4.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	4.0	U	4.0	0.33
86-30-6	N-Nitrosodiphenylamine	4.0	U	4.0	0.33
91-20-3	Naphthalene	4.0	U	4.0	0.30
98-95-3	Nitrobenzene	4.0	U	4.0	0.28
87-86-5	Pentachlorophenol	25	U	25	0.31
85-01-8	Phenanthrene	4.0	U	4.0	0.28
108-95-2	Phenol	4.0	U	4.0	0.19
129-00-0	Pyrene	4.0	U	4.0	0.33
108-60-1	2,2'-oxybis[1-chloropropane]	4.0	U	4.0	0.25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-2 | Lab Sample ID: 220-11066-15

Matrix: Water | Lab File ID: Z14578.D

Analysis Method: 8270C | Date Collected: 12/15/2009 14:25

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 16:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	68	36-120	
321-60-8	2-Fluorobiphenyl	63	39-120	
367-12-4	2-Fluorophenol	34	13-120	
4165-60-0	Nitrobenzene-d5	63	40-120	
4165-62-2	Phenol-d5	23	10-120	
1718-51-0	Terphenyl-d14	90	10-120	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14578.D
Lab Smp Id: 220-11066-B-15-A Client Smp ID: FB-2
Inj Date : 21-DEC-2009 16:04
Operator : S.Jonas Inst ID: msz.i
Smp Info : 220-11066-B-15-A
Misc Info : 220-11066-B-15-A
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

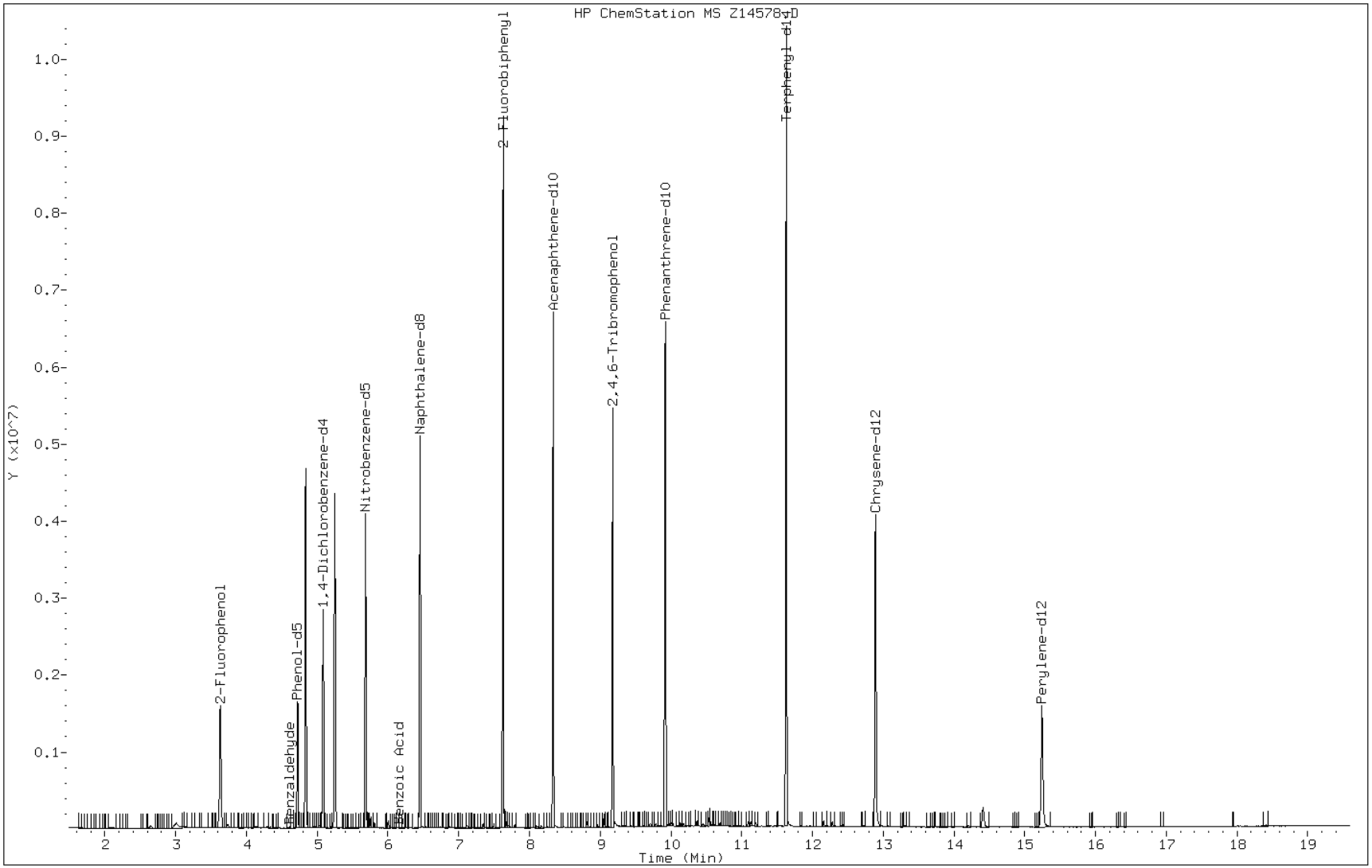
		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.080	5.087	(1.000)	531088	20.0000	
$	2 2-Fluorophenol	112	3.633	3.634	(0.715)	816770	25.8428	26
$	3 Phenol-d5	99	4.727	4.734	(0.931)	708515	16.9232	17
	128 Benzaldehyde	77	4.604	4.604	(0.906)	3991	0.99134	1.0
*	20 Naphthalene-d8	136	6.451	6.457	(1.000)	2411420	20.0000	
$	21 Nitrobenzene-d5	82	5.686	5.693	(0.881)	1265437	31.6735	32
	26 Benzoic Acid	122	6.162	6.281	(0.955)	2811	6.16120	6
*	35 Acenaphthene-d10	164	8.333	8.339	(1.000)	1548280	20.0000	
$	40 2-Fluorobiphenyl	172	7.627	7.634	(0.915)	2990390	31.6629	32
$	56 2,4,6-Tribromophenol	330	9.180	9.186	(1.102)	687046	51.0794	51
*	57 Phenanthrene-d10	188	9.921	9.922	(1.000)	2550121	20.0000	
*	70 Chrysene-d12	240	12.891	12.904	(1.000)	1930458	20.0000	
$	73 Terphenyl-d14	244	11.627	11.633	(0.902)	3629037	45.0730	45
*	79 Perylene-d12	264	15.244	15.257	(1.000)	899572	20.0000	

Data File: Z14578.D

Date: 21-DEC-2009 16:04

Client ID: FB-2 Instrument: msz.i

Sample Info: 220-11066-B-15-A Operator: S.Jonas



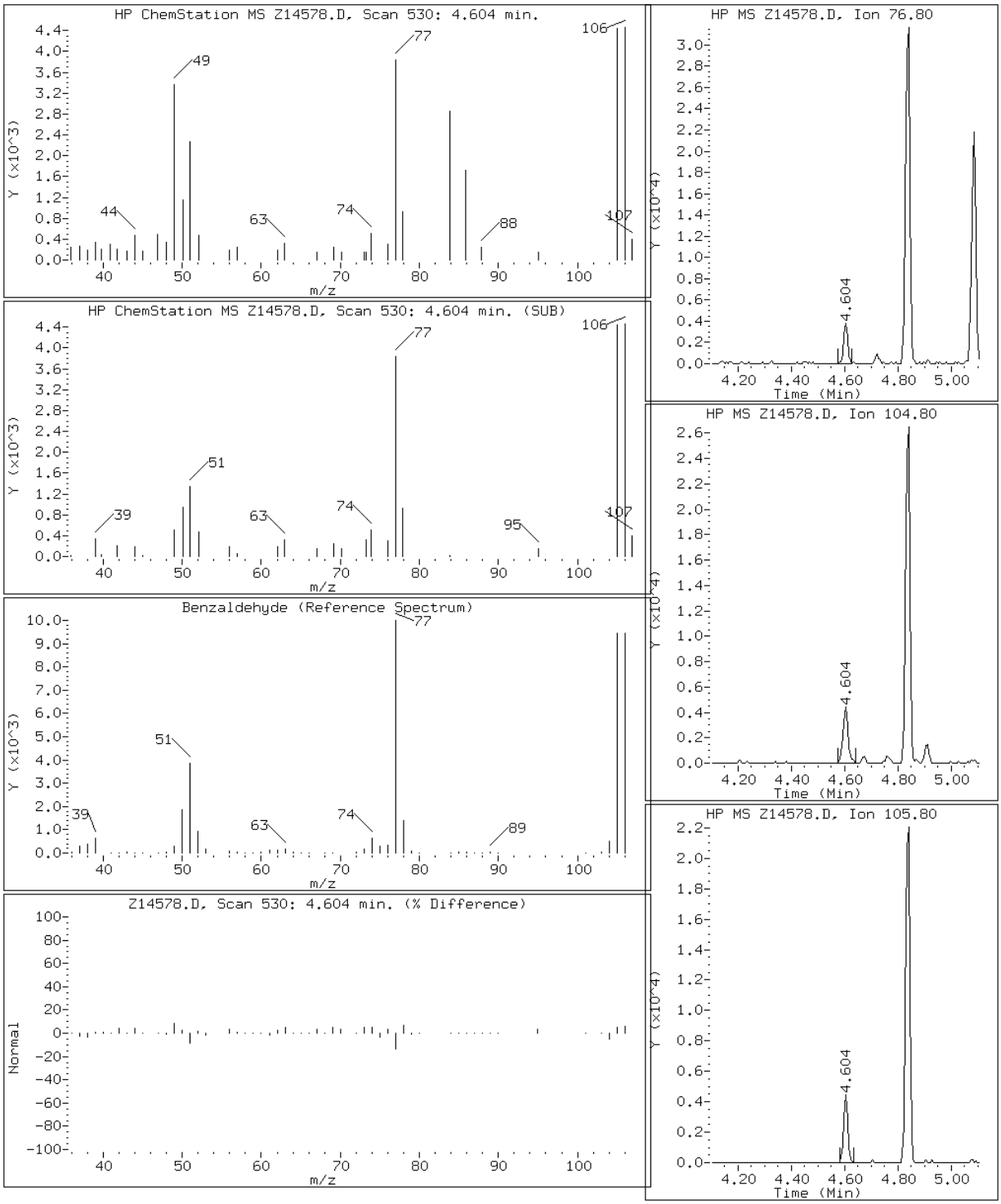
Data File: Z14578.D

Date: 21-DEC-2009 16:04

Client ID: FB-2 Instrument: msz.i

Sample Info: 220-11066-B-15-A Operator: S.Jonas

128 Benzaldehyde



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-3 | Lab Sample ID: 220-11066-16

Matrix: Water | Lab File ID: Z14579.D

Analysis Method: 8270C | Date Collected: 12/15/2009 15:00

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	4.0	U	4.0	0.37
95-95-4	2,4,5-Trichlorophenol	10	U	10	0.28
88-06-2	2,4,6-Trichlorophenol	4.0	U	4.0	0.37
120-83-2	2,4-Dichlorophenol	4.0	U	4.0	0.33
105-67-9	2,4-Dimethylphenol	4.0	U	4.0	0.33
121-14-2	2,4-Dinitrotoluene	4.0	U	4.0	0.40
51-28-5	2,4-Dinitrophenol	25	U	25	0.43
606-20-2	2,6-Dinitrotoluene	4.0	U	4.0	0.26
91-58-7	2-Chloronaphthalene	4.0	U	4.0	0.39
95-57-8	2-Chlorophenol	4.0	U	4.0	0.23
91-57-6	2-Methylnaphthalene	4.0	U	4.0	0.27
95-48-7	2-Methylphenol	4.0	U	4.0	0.24
88-74-4	2-Nitroaniline	4.0	U	4.0	0.34
88-75-5	2-Nitrophenol	4.0	U	4.0	0.27
91-94-1	3,3'-Dichlorobenzidine	4.0	U	4.0	0.36
99-09-2	3-Nitroaniline	4.0	U	4.0	0.23
534-52-1	4,6-Dinitro-2-methylphenol	25	U	25	1.9
101-55-3	4-Bromophenyl phenyl ether	4.0	U	4.0	0.44
59-50-7	4-Chloro-3-methylphenol	5.0	U	5.0	0.34
106-47-8	4-Chloroaniline	4.0	U	4.0	0.29
7005-72-3	4-Chlorophenyl phenyl ether	4.0	U	4.0	0.35
106-44-5	4-Methylphenol	4.0	U	4.0	0.29
100-01-6	4-Nitroaniline	4.0	U	4.0	0.20
100-02-7	4-Nitrophenol	10	U	10	1.4
83-32-9	Acenaphthene	4.0	U	4.0	0.31
208-96-8	Acenaphthylene	4.0	U	4.0	0.34
98-86-2	Acetophenone	4.0	U	4.0	0.33
120-12-7	Anthracene	4.0	U	4.0	0.29
1912-24-9	Atrazine	4.0	U	4.0	0.18
100-52-7	Benzaldehyde	10	U	10	0.68
56-55-3	Benzo[a]anthracene	4.0	U	4.0	0.30
50-32-8	Benzo[a]pyrene	4.0	U	4.0	0.35
205-99-2	Benzo[b]fluoranthene	4.0	U	4.0	0.36
191-24-2	Benzo[g,h,i]perylene	4.0	U	4.0	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-3 | Lab Sample ID: 220-11066-16

Matrix: Water | Lab File ID: Z14579.D

Analysis Method: 8270C | Date Collected: 12/15/2009 15:00

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	4.0	U	4.0	0.40
111-91-1	Bis(2-chloroethoxy)methane	4.0	U	4.0	0.31
111-44-4	Bis(2-chloroethyl)ether	4.0	U	4.0	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	4.0	U	4.0	0.54
85-68-7	Butyl benzyl phthalate	4.0	U	4.0	0.35
105-60-2	Caprolactam	4.0	U	4.0	0.92
86-74-8	Carbazole	4.0	U	4.0	0.33
218-01-9	Chrysene	4.0	U	4.0	0.25
84-74-2	Di-n-butyl phthalate	4.0	U	4.0	0.35
117-84-0	Di-n-octyl phthalate	4.0	U	4.0	0.38
53-70-3	Dibenz(a,h)anthracene	4.0	U	4.0	0.38
132-64-9	Dibenzofuran	4.0	U	4.0	0.43
84-66-2	Diethyl phthalate	4.0	U	4.0	0.43
131-11-3	Dimethyl phthalate	4.0	U	4.0	0.38
206-44-0	Fluoranthene	4.0	U	4.0	0.31
86-73-7	Fluorene	4.0	U	4.0	0.26
118-74-1	Hexachlorobenzene	4.0	U	4.0	0.33
87-68-3	Hexachlorobutadiene	4.0	U	4.0	0.20
77-47-4	Hexachlorocyclopentadiene	4.0	U	4.0	0.35
67-72-1	Hexachloroethane	4.0	U	4.0	0.37
193-39-5	Indeno[1,2,3-cd]pyrene	4.0	U	4.0	0.28
78-59-1	Isophorone	4.0	U	4.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	4.0	U	4.0	0.33
86-30-6	N-Nitrosodiphenylamine	4.0	U	4.0	0.33
91-20-3	Naphthalene	4.0	U	4.0	0.30
98-95-3	Nitrobenzene	4.0	U	4.0	0.28
87-86-5	Pentachlorophenol	25	U	25	0.31
85-01-8	Phenanthrene	4.0	U	4.0	0.28
108-95-2	Phenol	4.0	U	4.0	0.19
129-00-0	Pyrene	4.0	U	4.0	0.33
108-60-1	2,2'-oxybis[1-chloropropane]	4.0	U	4.0	0.25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: FB-3 | Lab Sample ID: 220-11066-16

Matrix: Water | Lab File ID: Z14579.D

Analysis Method: 8270C | Date Collected: 12/15/2009 15:00

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	68	36-120	
321-60-8	2-Fluorobiphenyl	62	39-120	
367-12-4	2-Fluorophenol	36	13-120	
4165-60-0	Nitrobenzene-d5	62	40-120	
4165-62-2	Phenol-d5	24	10-120	
1718-51-0	Terphenyl-d14	89	10-120	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14579.D
Lab Smp Id: 220-11066-A-16-A Client Smp ID: FB-3
Inj Date : 21-DEC-2009 16:33
Operator : S.Jonas Inst ID: msz.i
Smp Info : 220-11066-A-16-A
Misc Info : 220-11066-A-16-A
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

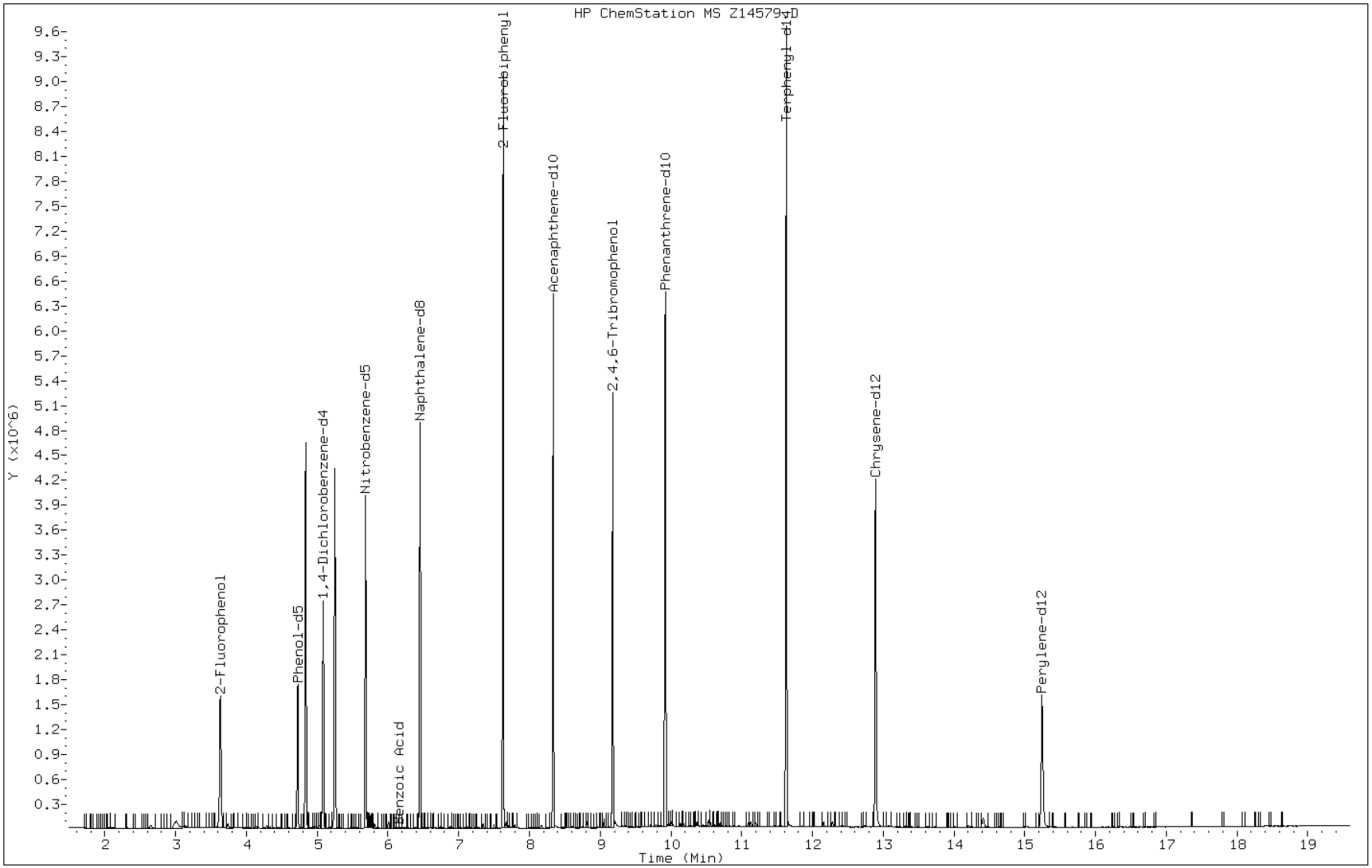
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.086	5.087	(1.000)	522485	20.0000	
$	2 2-Fluorophenol	112	3.633	3.634	(0.714)	830829	26.7205	27
$	3 Phenol-d5	99	4.727	4.734	(0.929)	741247	17.9965	18
*	20 Naphthalene-d8	136	6.457	6.457	(1.000)	2372995	20.0000	
$	21 Nitrobenzene-d5	82	5.686	5.693	(0.881)	1218228	30.9856	31
	26 Benzoic Acid	122	6.162	6.281	(0.954)	2519	6.15170	6
*	35 Acenaphthene-d10	164	8.333	8.339	(1.000)	1527285	20.0000	
$	40 2-Fluorobiphenyl	172	7.627	7.634	(0.915)	2889663	31.0170	31
$	56 2,4,6-Tribromophenol	330	9.180	9.186	(1.102)	677361	51.0516	51
*	57 Phenanthrene-d10	188	9.921	9.922	(1.000)	2501506	20.0000	
*	70 Chrysene-d12	240	12.891	12.904	(1.000)	1894592	20.0000	
$	73 Terphenyl-d14	244	11.627	11.633	(0.902)	3511608	44.4402	44
*	79 Perylene-d12	264	15.244	15.257	(1.000)	894925	20.0000	

Data File: Z14579.D

Date: 21-DEC-2009 16:33

Client ID: FB-3 Instrument: msz.i

Sample Info: 220-11066-A-16-A Operator: S.Jonas



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34520/2	A9213.D
Level 2	IC 220-34520/3	A9215.D
Level 3	IC 220-34520/5	A9216.D
Level 4	ICIS 220-34520/1	A9212.D
Level 5	IC 220-34520/6	A9217.D
Level 6	IC 220-34520/7	A9218.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodimethylamine	0.1411 0.1364	0.1280	0.1349	0.1343	0.1418	Ave		0.1361				3.7		15.0			
Pyridine	0.1656 0.1750	0.1617	0.1731	0.1717	0.1805	Ave		0.1713				3.9		15.0			
Cyclohexanone	0.6505 0.4511	0.6633	0.6649	0.6121	0.5547	Ave		0.5994				14.0		15.0			
Benzaldehyde	0.0584 0.1723	0.1732	0.2748	0.2457	0.2056	Ave		0.1883				40.0	*	15.0			
Aniline	1.9146 1.9148	2.0453	2.0472	1.9363	2.0208	Ave		1.9798				3.3		15.0			
Phenol	1.6554 1.6079	1.7015	1.7237	1.6353	1.6645	Ave		1.6647				2.6		30.0			
Bis(2-chloroethyl)ether	1.1033 1.0415	1.0909	1.0722	1.0322	1.0999	Ave		1.0733				2.8		15.0			
2-Chlorophenol	1.3625 1.3117	1.4230	1.4375	1.3714	1.4123	Ave		1.3864				3.4		15.0			
1,3-Dichlorobenzene	1.5747 1.4962	1.6272	1.6270	1.5422	1.5940	Ave		1.5769				3.2		15.0			
1,4-Dichlorobenzene	1.6482 1.5003	1.6309	1.6659	1.5745	1.6122	Ave		1.6053				3.8		30.0			
1,2-Dichlorobenzene	1.5789 1.3254	1.6177	1.5552	1.4262	1.4409	Ave		1.4907				7.5		15.0			
Benzyl alcohol	0.8305 0.8414	0.9078	0.9052	0.8539	0.8863	Ave		0.8709				3.8		15.0			
2-Methylphenol	1.3149 1.2238	1.3495	1.3579	1.2627	1.2963	Ave		1.3008				4.0		15.0			
2,2'-oxybis[1-chloropropane]	2.3427 2.0629	2.4099	2.3706	2.1932	2.2306	Ave		2.2683				5.8		15.0			
Acetophenone	1.8736 1.8648	1.9771	1.9548	1.8601	1.9679	Ave		1.9164				2.9		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodi-n-propylamine	1.1063 1.0051	1.1238	1.1342	1.0757	1.0971	Ave		1.0904			0.0500	4.3		15.0			
4-Methylphenol	1.4279 1.3249	1.4908	1.4937	1.3823	1.4158	Ave		1.4226				4.5		15.0			
Hexachloroethane	0.6795 0.6490	0.7082	0.7105	0.6807	0.6904	Ave		0.6864				3.3		15.0			
Nitrobenzene	0.3360 0.3213	0.3439	0.3472	0.3329	0.3410	Ave		0.3370				2.8		15.0			
Isophorone	0.6156 0.6336	0.6272	0.6450	0.6202	0.6459	Ave		0.6313				2.0		15.0			
2-Nitrophenol	0.1763 0.1852	0.1891	0.1935	0.1901	0.1934	Ave		0.1879				3.5		30.0			
2,4-Dimethylphenol	0.2757 0.2782	0.2860	0.2938	0.2829	0.2894	Ave		0.2843				2.4		15.0			
Bis(2-chloroethoxy)methane	0.4028 0.3695	0.4078	0.4060	0.3839	0.3880	Ave		0.3930				3.8		15.0			
Benzoic acid	+++++ 0.2364	0.1882	0.2190	0.2148	0.2331	Ave		0.2183				8.8		15.0			
2,4-Dichlorophenol	0.2780 0.2700	0.2877	0.3002	0.2840	0.2867	Ave		0.2844				3.6		30.0			
1,2,4-Trichlorobenzene	0.3054 0.2815	0.3147	0.3165	0.2975	0.3023	Ave		0.3030				4.2		15.0			
Naphthalene	1.0683 0.9037	1.0846	1.0860	0.9972	0.9830	Ave		1.0205				7.1		15.0			
4-Chloroaniline	0.4080 0.3953	0.4561	0.4611	0.4228	0.4322	Ave		0.4293				6.1		15.0			
Hexachlorobutadiene	0.1638 0.1472	0.1643	0.1662	0.1588	0.1598	Ave		0.1600				4.3		30.0			
Caprolactam	0.0983 0.1009	0.1050	0.1082	0.1019	0.1066	Ave		0.1035				3.6		15.0			
4-Chloro-3-methylphenol	0.2915 0.2841	0.2963	0.3124	0.3050	0.3049	Ave		0.2990				3.5		30.0			
2,4,5-Trichlorotoluene	1.3647 1.3033	1.4518	1.4456	1.3134	1.3783	Ave		1.3762				4.6		15.0			
2-Methylnaphthalene	0.7353 0.6282	0.7530	0.7511	0.6928	0.6804	Ave		0.7068				6.9		15.0			
Hexachlorocyclopentadiene	0.1847 0.2312	0.2179	0.2476	0.2582	0.2502	Ave		0.2316			0.0500	11.7		15.0			
2,4,6-Trichlorophenol	0.3030 0.3084	0.3188	0.3237	0.3159	0.3219	Ave		0.3153				2.6		30.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,4,5-Trichlorophenol	0.3203 0.3274	0.3215	0.3333	0.3401	0.3417	Ave		0.3307				2.8		15.0			
1,1'-Biphenyl	1.3362 0.9313	1.3336	1.2958	1.1871	1.0864	Ave		1.1951				13.5		15.0			
2-Chloronaphthalene	1.0569 0.8058	1.0409	1.0080	0.9462	0.8963	Ave		0.9590				10.0		15.0			
2-Nitroaniline	0.3316 0.3394	0.3408	0.3520	0.3470	0.3504	Ave		0.3435				2.2		15.0			
Dimethyl phthalate	1.1481 1.1275	1.1509	1.1717	1.1454	1.1725	Ave		1.1527				1.5		15.0			
2,6-Dinitrotoluene	0.2485 0.2724	0.2685	0.2797	0.2755	0.2855	Ave		0.2717				4.7		15.0			
Acenaphthylene	1.8066 1.5768	1.8520	1.8668	1.7749	1.7207	Ave		1.7663				6.1		15.0			
3-Nitroaniline	0.3060 0.3447	0.3354	0.3551	0.3450	0.3575	Ave		0.3406				5.5		15.0			
Acenaphthene	1.1751 0.9609	1.1624	1.1419	1.0914	1.0510	Ave		1.0971				7.4		30.0			
2,4-Dinitrophenol	0.0821 0.1794	0.1228	0.1433	0.1559	0.1751	Lin	0.3927	0.1985			0.0500			15.0	0.9975		0.9900
4-Nitrophenol	0.1391 0.1617	0.1499	0.1561	0.1627	0.1683	Ave		0.1563			0.0500	6.7		15.0			
2,4-Dinitrotoluene	0.3598 0.3279	0.3667	0.3694	0.3522	0.3502	Ave		0.3544				4.2		15.0			
Dibenzofuran	1.6135 1.2799	1.6049	1.5759	1.4672	1.4070	Ave		1.4914				8.9		15.0			
Diethyl phthalate	1.2769 1.1893	1.2907	1.3096	1.2596	1.2583	Ave		1.2641				3.3		15.0			
Fluorene	1.3482 1.0414	1.3525	1.3568	1.2407	1.1736	Ave		1.2522				10.2		15.0			
4-Chlorophenyl phenyl ether	0.5682 0.4591	0.5634	0.5623	0.5334	0.5088	Ave		0.5325				8.0		15.0			
4-Nitroaniline	0.3407 0.3618	0.3339	0.3562	0.3595	0.3802	Ave		0.3554				4.6		15.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1291	0.1118	0.1225	0.1243	0.1317	Ave		0.1239				6.2		15.0			
N-Nitrosodiphenylamine	0.5394 0.4845	0.5475	0.5527	0.5310	0.5286	Ave		0.5306				4.6		30.0			
1,2-Diphenylhydrazine	0.8675 0.7188	0.8551	0.8626	0.8079	0.7759	Ave		0.8146				7.3		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Bromophenyl phenyl ether	0.1941 0.1703	0.1935	0.1977	0.1864	0.1815	Ave		0.1873				5.4		15.0			
Hexachlorobenzene	0.2254 0.1808	0.2201	0.2195	0.2028	0.1934	Ave		0.2070				8.5		15.0			
Simazine	0.0893 0.1014	0.0946	0.0983	0.0970	0.1026	Ave		0.0972				5.0		15.0			
Atrazine	0.1761 0.1870	0.1850	0.1903	0.1824	0.1999	Ave		0.1868				4.3		15.0			
Pentachlorophenol	0.1117 0.1329	0.1234	0.1327	0.1359	0.1391	Ave		0.1293				7.8		30.0			
Benzidine	0.0258 0.0360	0.0259	0.0272	0.0293	0.0324	Ave		0.0294				13.8		15.0			
Phenanthrene	1.1517 0.9431	1.1334	1.1529	1.0808	1.0374	Ave		1.0832				7.6		15.0			
Anthracene	1.1444 0.9289	1.1650	1.1615	1.1002	1.0375	Ave		1.0896				8.5		15.0			
Carbazole	1.1116 0.9559	1.1166	1.1286	1.0761	1.0406	Ave		1.0716				6.1		15.0			
Di-n-butyl phthalate	1.3289 1.1463	1.3882	1.4001	1.3153	1.2585	Ave		1.3062				7.2		15.0			
Fluoranthene	1.2528 1.0406	1.2837	1.2810	1.1797	1.1602	Ave		1.1997				7.8		30.0			
Pyrene	1.2032 1.2430	1.2023	1.2135	1.2172	1.2554	Ave		1.2224				1.8		15.0			
3,3'-Dimethylbenzidine	0.1302 0.1605	0.1505	0.1906	0.1922	0.2018	Ave		0.1710				16.5	*	15.0			
Butyl benzyl phthalate	0.5287 0.6264	0.5702	0.5999	0.6055	0.6328	Ave		0.5939				6.5		15.0			
3,3'-Dichlorobenzidine	0.2714 0.2724	0.3090	0.3251	0.2991	0.3079	Ave		0.2975				7.2		15.0			
Benzo[a]anthracene	1.0342 0.9758	1.0469	1.0551	1.0210	1.0405	Ave		1.0289				2.8		15.0			
Chrysene	1.0862 0.9093	1.0735	1.0718	0.9991	0.9861	Ave		1.0210				6.8		15.0			
Bis(2-ethylhexyl) phthalate	0.6650 0.7013	0.7130	0.7613	0.7527	0.7582	Ave		0.7252				5.3		15.0			
Di-n-octyl phthalate	1.0616 2.6251	1.3506	1.6662	2.0685	2.3755	Lin	0.2999	2.7322						30.0	0.9906		0.9900
Benzo[b]fluoranthene	1.1731 1.5827	1.3014	1.3517	1.5029	1.5531	Ave		1.4108				11.4		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.4846 1.6320	1.4861	1.6201	1.6019	1.7069	Ave		1.5886				5.5		15.0			
Benzo[a]pyrene	0.9543 1.1652	1.0415	1.1111	1.1410	1.1725	Ave		1.0976				7.7		30.0			
Indeno[1,2,3-cd]pyrene	0.5478 +++++	0.5362	0.5716	0.5702	0.6515	Ave		0.5755				7.8		15.0			
Dibenz(a,h)anthracene	0.5725 +++++	0.6345	0.6033	0.6218	0.6988	Ave		0.6262				7.5		15.0			
Benzo[g,h,i]perylene	0.6304 +++++	0.6039	0.5952	0.5921	0.7312	Ave		0.6306				9.2		15.0			
2-Fluorophenol	1.0461 1.0917	1.0823	1.1101	1.0803	1.1375	Ave		1.0913				2.8		15.0			
Phenol-d5	1.6272 1.6391	1.7048	1.7083	1.6297	1.7222	Ave		1.6719				2.6		15.0			
Nitrobenzene-d5	0.3402 0.3425	0.3494	0.3603	0.3500	0.3579	Ave		0.3501				2.3		15.0			
2-Fluorobiphenyl	1.1990 1.0160	1.1850	1.1882	1.1240	1.0938	Ave		1.1343				6.3		15.0			
2,4,6-Tribromophenol	0.1880 0.1673	0.1849	0.1884	0.1843	0.1802	Ave		0.1822				4.3		15.0			
Terphenyl-d14	0.8096 0.7904	0.8103	0.8077	0.7780	0.7892	Ave		0.7976				1.7		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34520/2	A9213.D
Level 2	IC 220-34520/3	A9215.D
Level 3	IC 220-34520/5	A9216.D
Level 4	ICIS 220-34520/1	A9212.D
Level 5	IC 220-34520/6	A9217.D
Level 6	IC 220-34520/7	A9218.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
N-Nitrosodimethylamine	DCB	Ave	7187 142464	16128	33910	67905	99725	4.00 80.0	10.0	20.0	40.0	60.0
Pyridine	DCB	Ave	8434 182694	20374	43507	86818	126929	4.00 80.0	10.0	20.0	40.0	60.0
Cyclohexanone	DCB	Ave	33132 471018	83561	167162	309429	390124	4.00 80.0	10.0	20.0	40.0	60.0
Benzaldehyde	DCB	Ave	2975 179920	21813	69082	124191	144589	4.00 80.0	10.0	20.0	40.0	60.0
Aniline	DCB	Ave	97513 1999294	257660	514688	978804	1421254	4.00 80.0	10.0	20.0	40.0	60.0
Phenol	DCB	Ave	84312 1678837	214352	433362	826626	1170653	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-chloroethyl)ether	DCB	Ave	56190 1087453	137431	269570	521764	773563	4.00 80.0	10.0	20.0	40.0	60.0
2-Chlorophenol	DCB	Ave	69392 1369638	179259	361414	693246	993284	4.00 80.0	10.0	20.0	40.0	60.0
1,3-Dichlorobenzene	DCB	Ave	80201 1562270	204988	409058	779578	1121093	4.00 80.0	10.0	20.0	40.0	60.0
1,4-Dichlorobenzene	DCB	Ave	83946 1566491	205456	418829	795922	1133844	4.00 80.0	10.0	20.0	40.0	60.0
1,2-Dichlorobenzene	DCB	Ave	80413 1383905	203787	390995	720935	1013377	4.00 80.0	10.0	20.0	40.0	60.0
Benzyl alcohol	DCB	Ave	42298 878562	114365	227578	431670	623359	4.00 80.0	10.0	20.0	40.0	60.0
2-Methylphenol	DCB	Ave	66967 1277808	170001	341403	638317	911675	4.00 80.0	10.0	20.0	40.0	60.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	119314 2153999	303595	596001	1108682	1568767	4.00 80.0	10.0	20.0	40.0	60.0
Acetophenone	DCB	Ave	95424 1947111	249066	491460	940288	1384030	4.00 80.0	10.0	20.0	40.0	60.0
N-Nitrosodi-n-propylamine	DCB	Ave	56342 1049497	141572	285147	543751	771631	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methylphenol	DCB	Ave	72723 1383423	187808	375540	698752	995770	4.00 80.0	10.0	20.0	40.0	60.0
Hexachloroethane	DCB	Ave	34606 677648	89220	178633	344069	485553	4.00 80.0	10.0	20.0	40.0	60.0
Nitrobenzene	NPT	Ave	80920 1617658	207837	413397	792253	1158276	4.00 80.0	10.0	20.0	40.0	60.0
Isophorone	NPT	Ave	148266 3189771	379067	767890	1476072	2194226	4.00 80.0	10.0	20.0	40.0	60.0
2-Nitrophenol	NPT	Ave	42452 932653	114299	230368	452348	657168	4.00 80.0	10.0	20.0	40.0	60.0
2,4-Dimethylphenol	NPT	Ave	66393 1400428	172871	349791	673294	983195	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-chloroethoxy)methane	NPT	Ave	97007 1860175	246433	483330	913668	1318232	4.00 80.0	10.0	20.0	40.0	60.0
Benzoic acid	NPT	Ave	+++++ 1190034	284381	391163	511204	791932	+++++ 80.0	25.0	30.0	40.0	60.0
2,4-Dichlorophenol	NPT	Ave	66959 1359288	173863	357373	675968	974095	4.00 80.0	10.0	20.0	40.0	60.0
1,2,4-Trichlorobenzene	NPT	Ave	73567 1417053	190213	376817	708043	1027039	4.00 80.0	10.0	20.0	40.0	60.0
Naphthalene	NPT	Ave	257299 4549504	655500	1292898	2373209	3339322	4.00 80.0	10.0	20.0	40.0	60.0
4-Chloroaniline	NPT	Ave	98270 1990370	275618	549020	1006259	1468259	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorobutadiene	NPT	Ave	39451 740862	99289	197827	377907	542944	4.00 80.0	10.0	20.0	40.0	60.0
Caprolactam	NPT	Ave	23670 507922	63484	128873	242616	362284	4.00 80.0	10.0	20.0	40.0	60.0
4-Chloro-3-methylphenol	NPT	Ave	70204 1430145	179066	371897	725794	1035770	4.00 80.0	10.0	20.0	40.0	60.0
2,4,5-Trichlorotoluene	DCB	Ave	69504 1360861	182897	363447	663939	969387	4.00 80.0	10.0	20.0	40.0	60.0
2-Methylnaphthalene	NPT	Ave	177092 3162484	455056	894243	1648715	2311360	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorocyclopentadiene	ANT	Ave	30946 819203	93285	210898	426921	599909	4.00 80.0	10.0	20.0	40.0	60.0
2,4,6-Trichlorophenol	ANT	Ave	50783 1092671	136469	275686	522353	771906	4.00 80.0	10.0	20.0	40.0	60.0
2,4,5-Trichlorophenol	ANT	Ave	134194 1159899	344128	425863	562376	819357	10.0 80.0	25.0	30.0	40.0	60.0
1,1'-Biphenyl	ANT	Ave	223927 3299598	570916	1103592	1962663	2604757	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Chloronaphthalene	ANT	Ave	177125 2854710	445581	858529	1564406	2148992	4.00 80.0	10.0	20.0	40.0	60.0
2-Nitroaniline	ANT	Ave	55571 1202430	145902	299822	573733	840097	4.00 80.0	10.0	20.0	40.0	60.0
Dimethyl phthalate	ANT	Ave	192407 3994720	492704	997920	1893815	2811303	4.00 80.0	10.0	20.0	40.0	60.0
2,6-Dinitrotoluene	ANT	Ave	41638 965133	114949	238215	455473	684408	4.00 80.0	10.0	20.0	40.0	60.0
Acenaphthylene	ANT	Ave	302766 5586456	792830	1589944	2934566	4125717	4.00 80.0	10.0	20.0	40.0	60.0
3-Nitroaniline	ANT	Ave	51286 1221317	143597	302434	570451	857041	4.00 80.0	10.0	20.0	40.0	60.0
Acenaphthene	ANT	Ave	196933 3404371	497592	972590	1804429	2519845	4.00 80.0	10.0	20.0	40.0	60.0
2,4-Dinitrophenol	ANT	Lin	34382 635486	131383	183105	257694	419798	10.0 80.0	25.0	30.0	40.0	60.0
4-Nitrophenol	ANT	Ave	58280 572829	160436	199363	268961	403607	10.0 80.0	25.0	30.0	40.0	60.0
2,4-Dinitrotoluene	ANT	Ave	60293 1161770	156966	314623	582246	839648	4.00 80.0	10.0	20.0	40.0	60.0
Dibenzofuran	ANT	Ave	270398 4534466	687055	1342206	2425844	3373578	4.00 80.0	10.0	20.0	40.0	60.0
Diethyl phthalate	ANT	Ave	213999 4213683	552550	1115374	2082520	3016951	4.00 80.0	10.0	20.0	40.0	60.0
Fluorene	ANT	Ave	225934 3689643	578977	1155600	2051260	2813820	4.00 80.0	10.0	20.0	40.0	60.0
4-Chlorophenyl phenyl ether	ANT	Ave	95226 1626368	241167	478879	881814	1219815	4.00 80.0	10.0	20.0	40.0	60.0
4-Nitroaniline	ANT	Ave	57089 1281669	142921	303386	594418	911517	4.00 80.0	10.0	20.0	40.0	60.0
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 830697	212657	277517	362459	570311	+++++ 80.0	25.0	30.0	40.0	60.0
N-Nitrosodiphenylamine	PHN	Ave	158602 3118130	416698	835028	1548763	2288571	4.00 80.0	10.0	20.0	40.0	60.0
1,2-Diphenylhydrazine	PHN	Ave	255073 4625747	650767	1303186	2356467	3359296	4.00 80.0	10.0	20.0	40.0	60.0
4-Bromophenyl phenyl ether	PHN	Ave	57057 1096171	147226	298688	543734	786004	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorobenzene	PHN	Ave	66286 1163747	167502	331537	591515	837331	4.00 80.0	10.0	20.0	40.0	60.0
Simazine	PHN	Ave	26256 652400	71976	148488	283037	444074	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Atrazine	PHN	Ave	51777 1203159	140797	287562	532104	865641	4.00 80.0	10.0	20.0	40.0	60.0
Pentachlorophenol	PHN	Ave	82126 855343	234783	300726	396427	602313	10.0 80.0	25.0	30.0	40.0	60.0
Benzidine	CRY	Ave	8415 199951	21898	45281	87017	135132	4.00 80.0	10.0	20.0	40.0	60.0
Phenanthrene	PHN	Ave	338633 6069056	862567	1741764	3152358	4491698	4.00 80.0	10.0	20.0	40.0	60.0
Anthracene	PHN	Ave	336489 5978117	886604	1754818	3209032	4492205	4.00 80.0	10.0	20.0	40.0	60.0
Carbazole	PHN	Ave	326843 6151572	849766	1705121	3138546	4505612	4.00 80.0	10.0	20.0	40.0	60.0
Di-n-butyl phthalate	PHN	Ave	390726 7377152	1056468	2115184	3836368	5448894	4.00 80.0	10.0	20.0	40.0	60.0
Fluoranthene	PHN	Ave	368367 6696559	976952	1935358	3440854	5023243	4.00 80.0	10.0	20.0	40.0	60.0
Pyrene	CRY	Ave	392092 6898553	1017345	2023364	3609183	5240001	4.00 80.0	10.0	20.0	40.0	60.0
3,3'-Dimethylbenzidine	CRY	Ave	42423 890644	127387	317817	570051	842396	4.00 80.0	10.0	20.0	40.0	60.0
Butyl benzyl phthalate	CRY	Ave	172295 3476168	482508	1000299	1795446	2641368	4.00 80.0	10.0	20.0	40.0	60.0
3,3'-Dichlorobenzidine	CRY	Ave	88447 1511640	261474	542106	886978	1285280	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[a]anthracene	CRY	Ave	337022 5415490	885854	1759217	3027589	4343247	4.00 80.0	10.0	20.0	40.0	60.0
Chrysene	CRY	Ave	353955 5046314	908396	1787131	2962523	4116147	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	216697 3892273	603302	1269395	2231909	3164603	4.00 80.0	10.0	20.0	40.0	60.0
Di-n-octyl phthalate	PRY	Lin	228893 6132328	760393	1759603	3209044	4805580	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[b]fluoranthene	PRY	Ave	252928 3697150	732687	1427464	2331570	3141800	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[k]fluoranthene	PRY	Ave	320085 3812320	836658	1710928	2485169	3452854	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[a]pyrene	PRY	Ave	205751 2721953	586372	1173439	1770238	2371992	4.00 80.0	10.0	20.0	40.0	60.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	118114 +++++	301869	603683	884558	1317922	4.00 +++++	10.0	20.0	40.0	60.0
Dibenz(a,h)anthracene	PRY	Ave	123424 +++++	357223	637092	964599	1413648	4.00 +++++	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34520

SDG No.:

Instrument ID: MSA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 13:16 Calibration End Date: 12/21/2009 16:07 Calibration ID: 6092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[g,h,i]perylene	PRY	Ave	135926 +++++	340009	628533	918607	1479150	4.00 +++++	10.0	20.0	40.0	60.0
2-Fluorophenol	DCB	Ave	53279 1139904	136342	279080	546085	800038	4.00 80.0	10.0	20.0	40.0	60.0
Phenol-d5	DCB	Ave	82873 1711502	214763	429482	823825	1211233	4.00 80.0	10.0	20.0	40.0	60.0
Nitrobenzene-d5	NPT	Ave	81941 1724439	211157	428929	832961	1215847	4.00 80.0	10.0	20.0	40.0	60.0
2-Fluorobiphenyl	ANT	Ave	200940 3599727	507287	1012013	1858280	2622575	4.00 80.0	10.0	20.0	40.0	60.0
2,4,6-Tribromophenol	ANT	Ave	78777 592752	197846	240724	304684	432058	10.0 80.0	25.0	30.0	40.0	60.0
Terphenyl-d14	CRY	Ave	263831 4386800	685666	1346690	2306951	3294385	4.00 80.0	10.0	20.0	40.0	60.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099200.b\A9212.D
Lab Smp Id: ICIS-398055 Client Smp ID: ICIS-398055
Inj Date : 21-DEC-2009 13:16
Operator : S.Jonas Inst ID: msa.i
Smp Info : ICIS-398055
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099200.b\MSA-8270C.m
Meth Date : 22-Dec-2009 07:08 msa.i Quant Type: ISTD
Cal Date : 21-DEC-2009 18:55 Cal File: Aa9224.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	4.829	4.829	(1.000)	252749	20.0000	
$ 2	2-Fluorophenol	112	3.381	3.381	(0.700)	546085	40.0000	40
$ 3	Phenol-d5	99	4.503	4.503	(0.932)	823825	40.0000	39
4	Pyridine	52	1.594	1.594	(0.330)	86818	40.0000	40
5	N-Nitrosodimethylamine	42	1.588	1.588	(0.329)	67905	40.0000	39
6	Cyclohexanone	42	3.612	3.612	(0.748)	309429	40.0000	41
128	Benzaldehyde	77	4.348	4.348	(0.900)	124191	40.0000	52
7	Phenol	94	4.520	4.520	(0.936)	826626	40.0000	39
8	Aniline	93	4.485	4.485	(0.929)	978804	40.0000	39
9	bis(2-Chloroethyl)ether	63	4.586	4.586	(0.950)	521764	40.0000	38
10	2-Chlorophenol	128	4.609	4.609	(0.955)	693246	40.0000	40
11	1,3-Dichlorobenzene	146	4.770	4.770	(0.988)	779578	40.0000	39
12	1,4-Dichlorobenzene	146	4.853	4.853	(1.005)	795922	40.0000	39
13	Benzyl alcohol	108	5.013	5.013	(1.038)	431670	40.0000	39
14	1,2-Dichlorobenzene	146	5.013	5.013	(1.038)	720935	40.0000	38
15	2,2'-oxybis(1-Chloropropane)	45	5.167	5.167	(1.070)	1108682	40.0000	39
16	2-Methylphenol	108	5.161	5.161	(1.069)	638317	40.0000	39
92	Acetophenone	105	5.286	5.286	(1.095)	940288	40.0000	39
17	Hexachloroethane	117	5.369	5.369	(1.112)	344069	40.0000	40
18	N-Nitroso-di-n-propylamine	70	5.316	5.316	(1.101)	543751	40.0000	39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.328	5.328	(1.103)	698752	40.0000	39
*	20 Naphthalene-d8	136	6.194	6.194	(1.000)	1189931	20.0000	
$	21 Nitrobenzene-d5	82	5.440	5.440	(0.878)	832961	40.0000	40
	22 Nitrobenzene	77	5.458	5.458	(0.881)	792253	40.0000	40
	23 Isophorone	82	5.725	5.725	(0.924)	1476072	40.0000	39
	24 2-Nitrophenol	139	5.796	5.796	(0.936)	452348	40.0000	40
	25 2,4-Dimethylphenol	122	5.885	5.885	(0.950)	673294	40.0000	40
	26 Benzoic Acid	122	6.052	6.052	(0.977)	511204	40.0000	39(M)
	27 Bis(2-Chloroethoxy)methane	93	5.980	5.980	(0.966)	913668	40.0000	39
	28 2,4-Dichlorophenol	162	6.063	6.063	(0.979)	675968	40.0000	40
	29 1,2,4-Trichlorobenzene	180	6.147	6.147	(0.992)	708043	40.0000	39
	30 Naphthalene	128	6.218	6.218	(1.004)	2373209	40.0000	39
	31 4-Chloroaniline	127	6.295	6.295	(1.016)	1006259	40.0000	39
	32 Hexachlorobutadiene	225	6.372	6.372	(1.029)	377907	40.0000	40
	129 Caprolactam	113	6.710	6.710	(1.083)	242616	40.0000	39
	33 4-Chloro-3-methylphenol	107	6.841	6.841	(1.104)	725794	40.0000	41
	34 2-Methylnaphthalene	142	6.960	6.960	(1.124)	1648715	40.0000	39
*	35 Acenaphthene-d10	164	8.058	8.058	(1.000)	826673	20.0000	
	36 2,4,5-Trichlorotoluene	159	6.924	6.924	(1.434)	663939	40.0000	38
	37 Hexachlorocyclopentadiene	237	7.138	7.138	(0.886)	426921	40.0000	45
	38 2,4,6-Trichlorophenol	196	7.274	7.274	(0.903)	522353	40.0000	40
	39 2,4,5-Trichlorophenol	196	7.310	7.310	(0.907)	562376	40.0000	41
$	40 2-Fluorobiphenyl	172	7.363	7.363	(0.914)	1858280	40.0000	40
	130 1,1'-Biphenyl	154	7.464	7.464	(0.926)	1962663	40.0000	40
	41 2-Chloronaphthalene	162	7.470	7.470	(0.927)	1564406	40.0000	39
	42 2-Nitroaniline	65	7.595	7.595	(0.943)	573733	40.0000	40
	43 Acenaphthylene	152	7.909	7.909	(0.982)	2934566	40.0000	40
	44 Dimethylphthalate	163	7.808	7.808	(0.969)	1893815	40.0000	40
	45 2,6-Dinitrotoluene	165	7.862	7.862	(0.976)	455473	40.0000	41
	46 Acenaphthene	153	8.093	8.093	(1.004)	1804429	40.0000	40
	47 3-Nitroaniline	138	8.034	8.034	(0.997)	570451	40.0000	41
	48 2,4-Dinitrophenol	184	8.141	8.141	(1.010)	257694	40.0000	39
	49 Dibenzofuran	168	8.277	8.277	(1.027)	2425844	40.0000	39
	50 2,4-Dinitrotoluene	165	8.283	8.283	(1.028)	582246	40.0000	40
	51 4-Nitrophenol	109	8.236	8.236	(1.022)	268961	40.0000	42
	52 Fluorene	166	8.639	8.639	(1.072)	2051260	40.0000	40
	53 4-Chlorophenyl-phenylether	204	8.651	8.651	(1.074)	881814	40.0000	40
	54 Diethylphthalate	149	8.556	8.556	(1.062)	2082520	40.0000	40
	55 4-Nitroaniline	138	8.687	8.687	(1.078)	594418	40.0000	40
$	56 2,4,6-Tribromophenol	330	8.901	8.901	(1.105)	304684	40.0000	40
*	57 Phenanthrene-d10	188	9.625	9.625	(1.000)	1458353	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.717	8.717	(0.906)	362459	40.0000	40
	59 N-Nitrosodiphenylamine (1)	169	8.782	8.782	(0.912)	1548763	40.0000	40
	60 1,2-Diphenylhydrazine	77	8.823	8.823	(0.917)	2356467	40.0000	40
	61 4-Bromophenyl-phenylether	248	9.168	9.168	(0.953)	543734	40.0000	40
	131 Atrazine	200	9.369	9.369	(0.973)	532104	40.0000	39
	62 Hexachlorobenzene	284	9.233	9.233	(0.959)	591515	40.0000	39
	63 Pentachlorophenol	266	9.441	9.441	(0.981)	396427	40.0000	42
	64 Phenanthrene	178	9.654	9.654	(1.003)	3152358	40.0000	40
	65 Carbazole	167	9.886	9.886	(1.027)	3138546	40.0000	40
	66 Anthracene	178	9.708	9.708	(1.009)	3209032	40.0000	40
	67 Di-n-butylphthalate	149	10.278	10.278	(1.068)	3836368	40.0000	40
	68 Fluoranthene	202	10.913	10.913	(1.134)	3440854	40.0000	39
*	70 Chrysene-d12	240	12.515	12.515	(1.000)	1482628	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
71	Benzidine	184	9.512	9.512	(0.760)	87017	40.0000	40
72	Pyrene	202	11.150	11.150	(0.891)	3609183	40.0000	40
$ 73	Terphenyl-d14	244	11.328	11.328	(0.905)	2306951	40.0000	39
74	Butylbenzylphthalate	149	11.862	11.862	(0.948)	1795446	40.0000	41
124	3,3'-Dimethylbenzidine	212	11.833	11.833	(0.945)	570051	40.0000	45
75	3,3'-Dichlorobenzidine	252	12.480	12.480	(0.997)	886978	40.0000	40
76	Benzo(a)anthracene	228	12.497	12.497	(0.999)	3027589	40.0000	40
77	Chrysene	228	12.551	12.551	(1.003)	2962523	40.0000	39
78	Bis(2-Ethylhexyl)phthalate	149	12.563	12.563	(1.004)	2231909	40.0000	42
* 79	Perylene-d12	264	14.687	14.687	(1.000)	775706	20.0000	
80	Di-n-octylphthalate	149	13.489	13.489	(0.918)	3209044	40.0000	36
81	Benzo(b)fluoranthene	252	14.052	14.052	(0.957)	2331570	40.0000	43
82	Benzo(k)fluoranthene	252	14.100	14.100	(0.960)	2485169	40.0000	40
83	Benzo(a)pyrene	252	14.593	14.593	(0.994)	1770238	40.0000	42
84	Indeno(1,2,3-cd)pyrene	276	16.700	16.700	(1.137)	884558	40.0000	40
85	Dibenzo(a,h)anthracene	278	16.753	16.753	(1.141)	964599	40.0000	40
86	Benzo(g,h,i)perylene	276	17.222	17.222	(1.173)	918607	40.0000	38
167	Simazine	201	9.340	9.340	(0.970)	283037	40.0000	40

QC Flag Legend

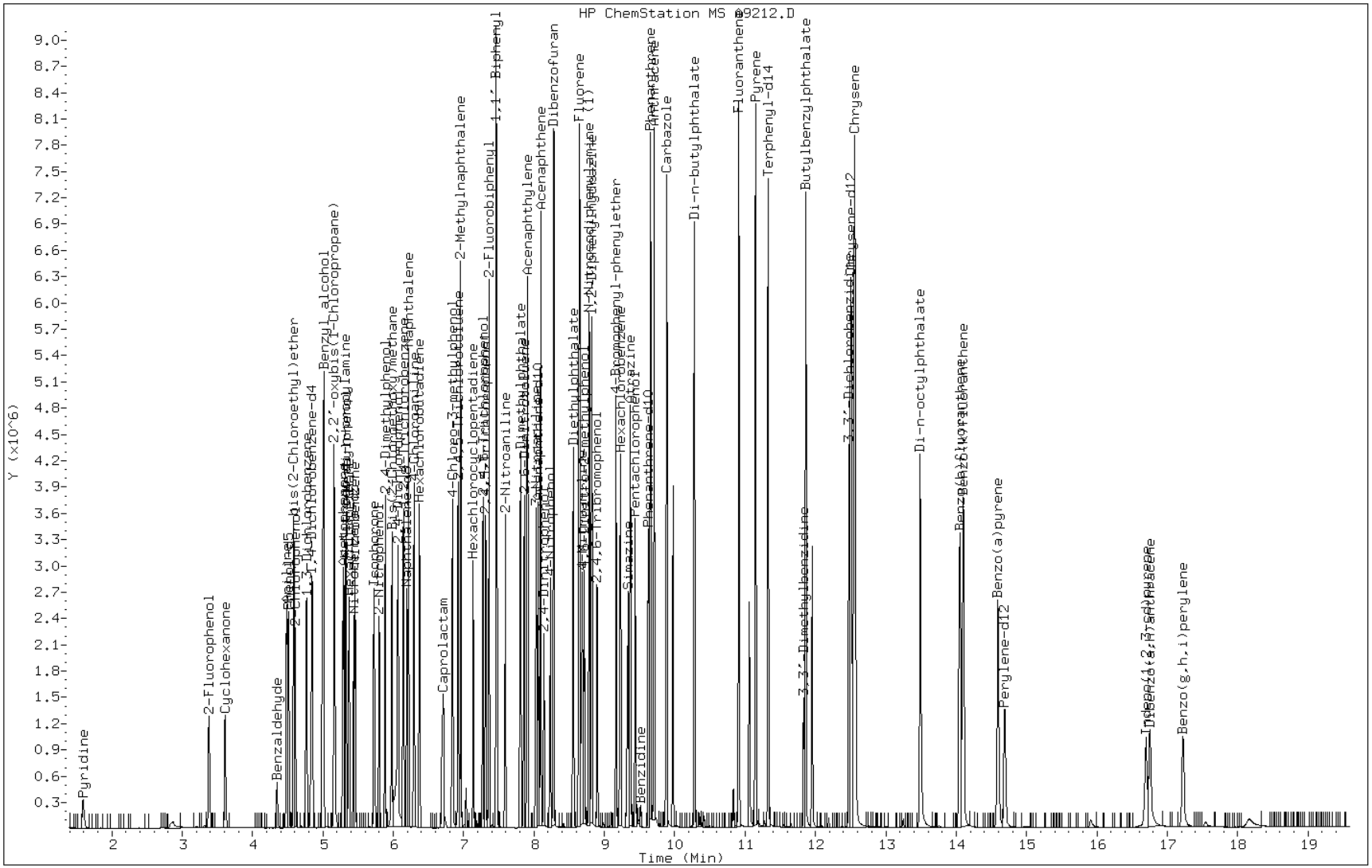
M - Compound response manually integrated.

Data File: A9212.D

Date: 21-DEC-2009 13:16

Client ID: ICIS-398055 Instrument: msa.i

Sample Info: ICIS-398055 Operator: S.Jonas



Manual Integration Report

Data File: A9212.D
Inj. Date and Time: 21-DEC-2009 13:16
Instrument ID: msa.i
Client ID: ICIS-398055
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/22/2009

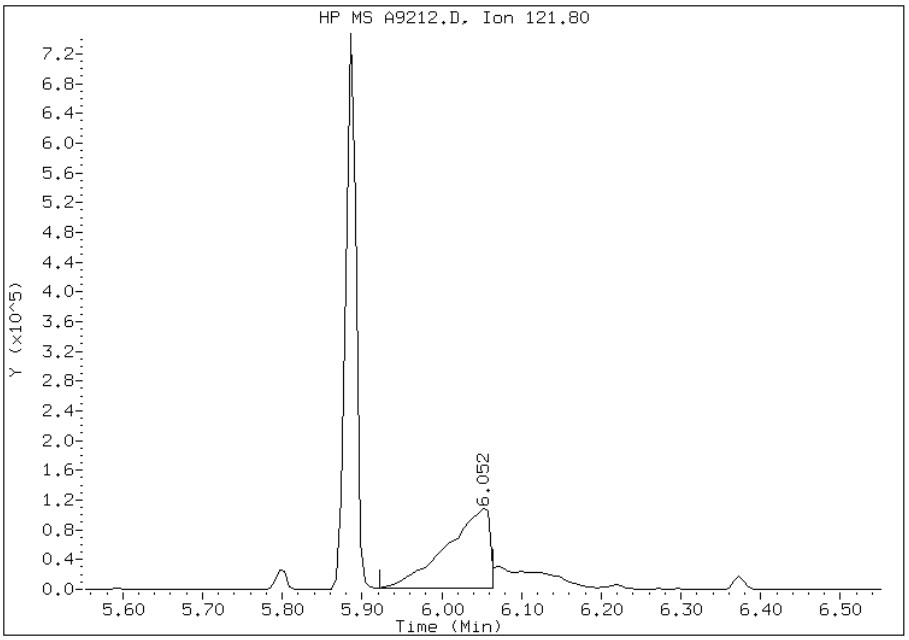
Processing Integration Results

RT: 6.05

Response: 398936

Amount: 40

Conc: 40



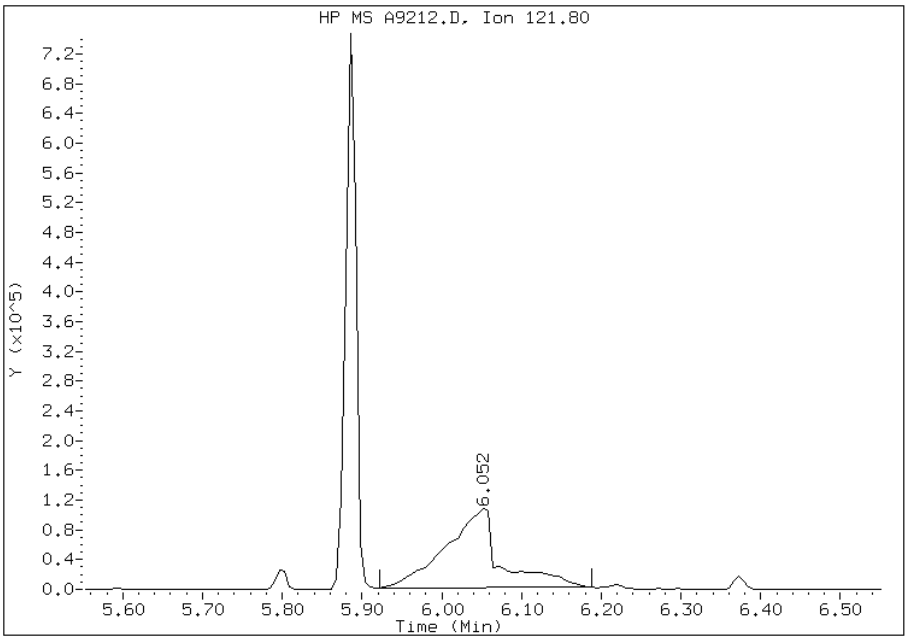
Manual Integration Results

RT: 6.05

Response: 511204

Amount: 39

Conc: 39



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099200.b\A9213.D
Lab Smp Id: IC-395382 Client Smp ID: IC-395382
Inj Date : 21-DEC-2009 13:44
Operator : S.Jonas Inst ID: msa.i
Smp Info : IC-395382;4/10
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099200.b\MSA-8270C.m
Meth Date : 22-Dec-2009 07:08 msa.i Quant Type: ISTD
Cal Date : 21-DEC-2009 17:59 Cal File: Aa9222.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	4.829	4.829	(1.000)	254652	20.0000	
$ 2	2-Fluorophenol	112	3.381	3.381	(0.700)	53279	4.00000	4
$ 3	Phenol-d5	99	4.491	4.491	(0.930)	82873	4.00000	4
4	Pyridine	52	1.606	1.606	(0.333)	8434	4.00000	4
5	N-Nitrosodimethylamine	42	1.594	1.594	(0.330)	7187	4.00000	4
6	Cyclohexanone	42	3.612	3.612	(0.748)	33132	4.00000	4
128	Benzaldehyde	77	4.348	4.348	(0.900)	2975	4.00000	1
7	Phenol	94	4.502	4.502	(0.932)	84312	4.00000	4
8	Aniline	93	4.479	4.479	(0.927)	97513	4.00000	4
9	bis(2-Chloroethyl)ether	63	4.574	4.574	(0.947)	56190	4.00000	4(H)
10	2-Chlorophenol	128	4.603	4.603	(0.953)	69392	4.00000	4
11	1,3-Dichlorobenzene	146	4.764	4.764	(0.986)	80201	4.00000	4
12	1,4-Dichlorobenzene	146	4.847	4.847	(1.004)	83946	4.00000	4
13	Benzyl alcohol	108	5.001	5.001	(1.036)	42298	4.00000	4
14	1,2-Dichlorobenzene	146	5.007	5.007	(1.037)	80413	4.00000	4
15	2,2'-oxybis(1-Chloropropane)	45	5.161	5.161	(1.069)	119314	4.00000	4
16	2-Methylphenol	108	5.149	5.149	(1.066)	66967	4.00000	4
92	Acetophenone	105	5.274	5.274	(1.092)	95424	4.00000	4
17	Hexachloroethane	117	5.369	5.369	(1.112)	34606	4.00000	4
18	N-Nitroso-di-n-propylamine	70	5.298	5.298	(1.097)	56342	4.00000	4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.316	5.316	(1.101)	72723	4.00000	4
*	20 Naphthalene-d8	136	6.188	6.188	(1.000)	1204263	20.0000	
$	21 Nitrobenzene-d5	82	5.428	5.428	(0.877)	81941	4.00000	4
	22 Nitrobenzene	77	5.446	5.446	(0.880)	80920	4.00000	4
	23 Isophorone	82	5.713	5.713	(0.923)	148266	4.00000	4
	24 2-Nitrophenol	139	5.790	5.790	(0.936)	42452	4.00000	4
	25 2,4-Dimethylphenol	122	5.873	5.873	(0.949)	66393	4.00000	4
	26 Benzoic Acid	122	5.986	5.986	(0.967)	83899	10.0000	6
	27 Bis(2-Chloroethoxy)methane	93	5.968	5.968	(0.965)	97007	4.00000	4
	28 2,4-Dichlorophenol	162	6.057	6.057	(0.979)	66959	4.00000	4
	29 1,2,4-Trichlorobenzene	180	6.141	6.141	(0.992)	73567	4.00000	4
	30 Naphthalene	128	6.212	6.212	(1.004)	257299	4.00000	4
	31 4-Chloroaniline	127	6.289	6.289	(1.016)	98270	4.00000	4
	32 Hexachlorobutadiene	225	6.372	6.372	(1.030)	39451	4.00000	4
	129 Caprolactam	113	6.633	6.633	(1.072)	23670	4.00000	4
	33 4-Chloro-3-methylphenol	107	6.823	6.823	(1.103)	70204	4.00000	4
	34 2-Methylnaphthalene	142	6.954	6.954	(1.124)	177092	4.00000	4
*	35 Acenaphthene-d10	164	8.052	8.052	(1.000)	837932	20.0000	
	36 2,4,5-Trichlorotoluene	159	6.912	6.912	(1.431)	69504	4.00000	4
	37 Hexachlorocyclopentadiene	237	7.138	7.138	(0.886)	30946	4.00000	3
	38 2,4,6-Trichlorophenol	196	7.262	7.262	(0.902)	50783	4.00000	4
	39 2,4,5-Trichlorophenol	196	7.298	7.298	(0.906)	134194	10.0000	10
$	40 2-Fluorobiphenyl	172	7.357	7.357	(0.914)	200940	4.00000	4
	130 1,1'-Biphenyl	154	7.452	7.452	(0.926)	223927	4.00000	4
	41 2-Chloronaphthalene	162	7.464	7.464	(0.927)	177125	4.00000	4
	42 2-Nitroaniline	65	7.583	7.583	(0.942)	55571	4.00000	4
	43 Acenaphthylene	152	7.897	7.897	(0.981)	302766	4.00000	4
	44 Dimethylphthalate	163	7.797	7.797	(0.968)	192407	4.00000	4
	45 2,6-Dinitrotoluene	165	7.844	7.844	(0.974)	41638	4.00000	4
	46 Acenaphthene	153	8.087	8.087	(1.004)	196933	4.00000	4
	47 3-Nitroaniline	138	8.016	8.016	(0.996)	51286	4.00000	4
	48 2,4-Dinitrophenol	184	8.129	8.129	(1.010)	34382	10.0000	12
	49 Dibenzofuran	168	8.271	8.271	(1.027)	270398	4.00000	4
	50 2,4-Dinitrotoluene	165	8.265	8.265	(1.027)	60293	4.00000	4
	51 4-Nitrophenol	109	8.218	8.218	(1.021)	58280	10.0000	9
	52 Fluorene	166	8.633	8.633	(1.072)	225934	4.00000	4
	53 4-Chlorophenyl-phenylether	204	8.645	8.645	(1.074)	95226	4.00000	4
	54 Diethylphthalate	149	8.544	8.544	(1.061)	213999	4.00000	4
	55 4-Nitroaniline	138	8.657	8.657	(1.075)	57089	4.00000	4
$	56 2,4,6-Tribromophenol	330	8.889	8.889	(1.104)	78777	10.0000	10
*	57 Phenanthrene-d10	188	9.625	9.625	(1.000)	1470128	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.693	8.693	(0.903)	67695	10.0000	7
	59 N-Nitrosodiphenylamine (1)	169	8.770	8.770	(0.911)	158602	4.00000	4
	60 1,2-Diphenylhydrazine	77	8.811	8.811	(0.916)	255073	4.00000	4
	61 4-Bromophenyl-phenylether	248	9.162	9.162	(0.952)	57057	4.00000	4
	131 Atrazine	200	9.352	9.352	(0.972)	51777	4.00000	4
	62 Hexachlorobenzene	284	9.221	9.221	(0.958)	66286	4.00000	4
	63 Pentachlorophenol	266	9.429	9.429	(0.980)	82126	10.0000	9
	64 Phenanthrene	178	9.642	9.642	(1.002)	338633	4.00000	4
	65 Carbazole	167	9.874	9.874	(1.026)	326843	4.00000	4
	66 Anthracene	178	9.696	9.696	(1.007)	336489	4.00000	4
	67 Di-n-butylphthalate	149	10.272	10.272	(1.067)	390726	4.00000	4
	68 Fluoranthene	202	10.901	10.901	(1.133)	368367	4.00000	4
*	70 Chrysene-d12	240	12.503	12.503	(1.000)	1629367	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
72	Pyrene	202	11.138	11.138	(0.891)	392092	4.00000	4
$ 73	Terphenyl-d14	244	11.322	11.322	(0.906)	263831	4.00000	4
74	Butylbenzylphthalate	149	11.856	11.856	(0.948)	172295	4.00000	4
75	3,3'-Dichlorobenzidine	252	12.468	12.468	(0.997)	88447	4.00000	4
76	Benzo(a)anthracene	228	12.491	12.491	(0.999)	337022	4.00000	4
77	Chrysene	228	12.533	12.533	(1.002)	353955	4.00000	4
78	Bis(2-Ethylhexyl)phthalate	149	12.563	12.563	(1.005)	216697	4.00000	4
* 79	Perylene-d12	264	14.687	14.687	(1.000)	1078012	20.0000	
80	Di-n-octylphthalate	149	13.483	13.483	(0.918)	228893	4.00000	8
81	Benzo(b)fluoranthene	252	14.035	14.035	(0.956)	252928	4.00000	3
82	Benzo(k)fluoranthene	252	14.082	14.082	(0.959)	320085	4.00000	4
83	Benzo(a)pyrene	252	14.581	14.581	(0.993)	205751	4.00000	3
84	Indeno(1,2,3-cd)pyrene	276	16.682	16.682	(1.136)	118114	4.00000	4
85	Dibenzo(a,h)anthracene	278	16.741	16.741	(1.140)	123424	4.00000	4
86	Benzo(g,h,i)perylene	276	17.210	17.210	(1.172)	135926	4.00000	4
167	Simazine	201	9.310	9.310	(0.967)	26256	4.00000	4(H)

QC Flag Legend

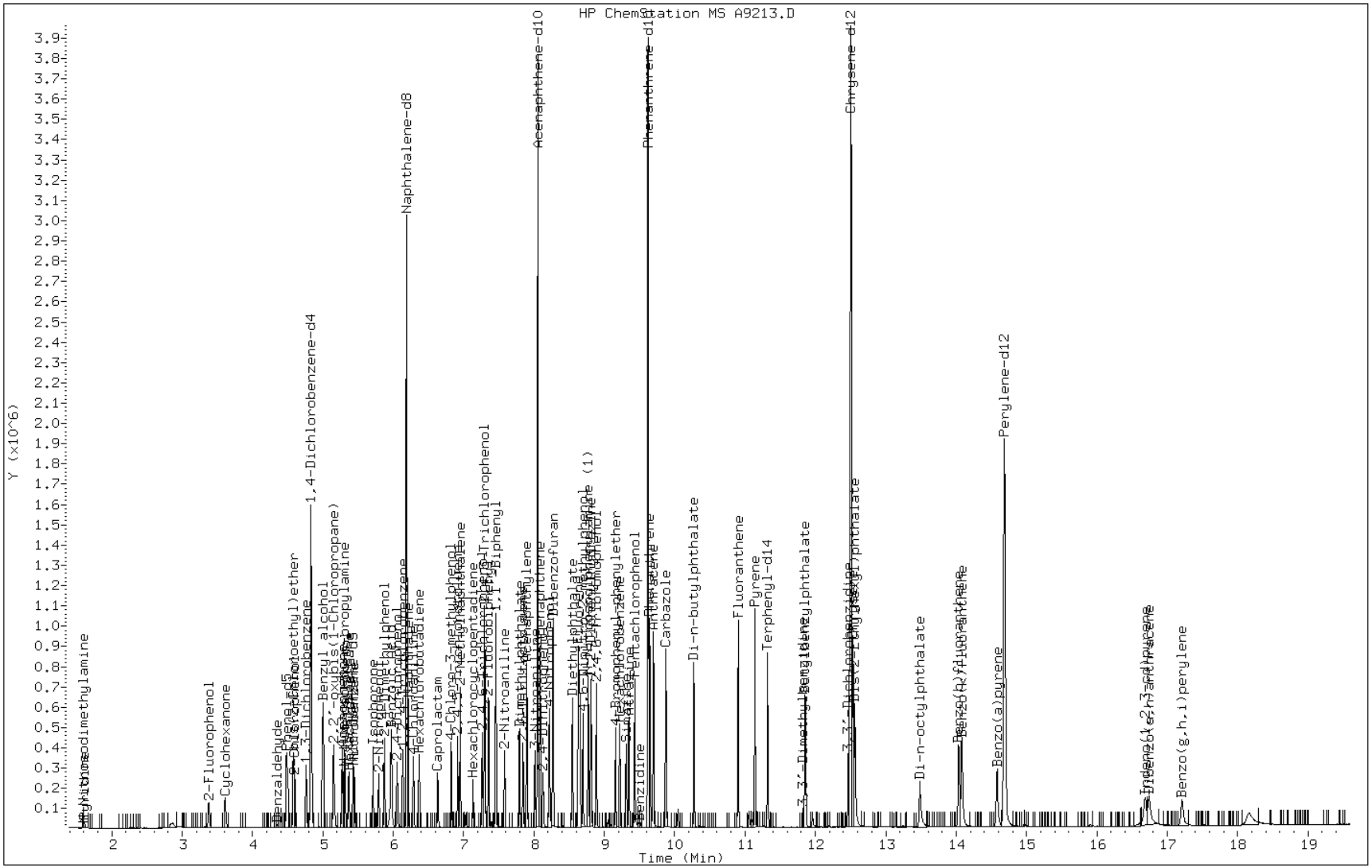
H - Operator selected an alternate compound hit.

Data File: A9213.D

Date: 21-DEC-2009 13:44

Client ID: IC-395382 Instrument: msa.i

Sample Info: IC-395382;4/10 Operator: S.Jonas



TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099200.b\A9215.D
Lab Smp Id: IC-395383 Client Smp ID: IC-395383
Inj Date : 21-DEC-2009 14:42
Operator : S.Jonas Inst ID: msa.i
Smp Info : IC-395383;10/25
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099200.b\MSA-8270C.m
Meth Date : 22-Dec-2009 07:08 msa.i Quant Type: ISTD
Cal Date : 21-DEC-2009 16:35 Cal File: Aa9219.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	4.829	4.829	(1.000)	251954	20.0000	
$ 2	2-Fluorophenol	112	3.375	3.375	(0.699)	136342	10.0000	10
$ 3	Phenol-d5	99	4.491	4.491	(0.930)	214763	10.0000	10
4	Pyridine	52	1.600	1.600	(0.331)	20374	10.0000	9
5	N-Nitrosodimethylamine	42	1.588	1.588	(0.329)	16128	10.0000	9
6	Cyclohexanone	42	3.606	3.606	(0.747)	83561	10.0000	11
128	Benzaldehyde	77	4.348	4.348	(0.900)	21813	10.0000	9
7	Phenol	94	4.502	4.502	(0.932)	214352	10.0000	10
8	Aniline	93	4.479	4.479	(0.927)	257660	10.0000	10
9	bis(2-Chloroethyl)ether	63	4.580	4.580	(0.948)	137431	10.0000	10(H)
10	2-Chlorophenol	128	4.603	4.603	(0.953)	179259	10.0000	10
11	1,3-Dichlorobenzene	146	4.764	4.764	(0.986)	204988	10.0000	10
12	1,4-Dichlorobenzene	146	4.847	4.847	(1.004)	205456	10.0000	10
13	Benzyl alcohol	108	5.007	5.007	(1.037)	114365	10.0000	10
14	1,2-Dichlorobenzene	146	5.007	5.007	(1.037)	203787	10.0000	11
15	2,2'-oxybis(1-Chloropropane)	45	5.167	5.167	(1.070)	303595	10.0000	11
16	2-Methylphenol	108	5.149	5.149	(1.066)	170001	10.0000	10
92	Acetophenone	105	5.280	5.280	(1.093)	249066	10.0000	10
17	Hexachloroethane	117	5.369	5.369	(1.112)	89220	10.0000	10
18	N-Nitroso-di-n-propylamine	70	5.298	5.298	(1.097)	141572	10.0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
19	4-Methylphenol	108	5.316	5.316	(1.101)	187808	10.0000	10
* 20	Naphthalene-d8	136	6.194	6.194	(1.000)	1208704	20.0000	
$ 21	Nitrobenzene-d5	82	5.428	5.428	(0.876)	211157	10.0000	10
22	Nitrobenzene	77	5.452	5.452	(0.880)	207837	10.0000	10
23	Isophorone	82	5.719	5.719	(0.923)	379067	10.0000	10
24	2-Nitrophenol	139	5.796	5.796	(0.936)	114299	10.0000	10
25	2,4-Dimethylphenol	122	5.879	5.879	(0.949)	172871	10.0000	10
26	Benzoic Acid	122	6.034	6.034	(0.974)	284381	25.0000	22
27	Bis(2-Chloroethoxy)methane	93	5.974	5.974	(0.965)	246433	10.0000	10
28	2,4-Dichlorophenol	162	6.058	6.058	(0.978)	173863	10.0000	10
29	1,2,4-Trichlorobenzene	180	6.141	6.141	(0.991)	190213	10.0000	10
30	Naphthalene	128	6.212	6.212	(1.003)	655500	10.0000	11
31	4-Chloroaniline	127	6.289	6.289	(1.015)	275618	10.0000	11
32	Hexachlorobutadiene	225	6.372	6.372	(1.029)	99289	10.0000	10
129	Caprolactam	113	6.663	6.663	(1.076)	63484	10.0000	10
33	4-Chloro-3-methylphenol	107	6.829	6.829	(1.103)	179066	10.0000	10
34	2-Methylnaphthalene	142	6.954	6.954	(1.123)	455056	10.0000	11
* 35	Acenaphthene-d10	164	8.058	8.058	(1.000)	856179	20.0000	
36	2,4,5-Trichlorotoluene	159	6.918	6.918	(1.433)	182897	10.0000	11
37	Hexachlorocyclopentadiene	237	7.138	7.138	(0.886)	93285	10.0000	9
38	2,4,6-Trichlorophenol	196	7.268	7.268	(0.902)	136469	10.0000	10
39	2,4,5-Trichlorophenol	196	7.304	7.304	(0.906)	344128	25.0000	24
$ 40	2-Fluorobiphenyl	172	7.357	7.357	(0.913)	507287	10.0000	10
130	1,1'-Biphenyl	154	7.458	7.458	(0.926)	570916	10.0000	11
41	2-Chloronaphthalene	162	7.470	7.470	(0.927)	445581	10.0000	11
42	2-Nitroaniline	65	7.589	7.589	(0.942)	145902	10.0000	10
43	Acenaphthylene	152	7.903	7.903	(0.981)	792830	10.0000	10
44	Dimethylphthalate	163	7.802	7.802	(0.968)	492704	10.0000	10
45	2,6-Dinitrotoluene	165	7.850	7.850	(0.974)	114949	10.0000	10
46	Acenaphthene	153	8.093	8.093	(1.004)	497592	10.0000	11
47	3-Nitroaniline	138	8.022	8.022	(0.996)	143597	10.0000	10
48	2,4-Dinitrophenol	184	8.135	8.135	(1.010)	131383	25.0000	23
49	Dibenzofuran	168	8.277	8.277	(1.027)	687055	10.0000	11
50	2,4-Dinitrotoluene	165	8.271	8.271	(1.027)	156966	10.0000	10
51	4-Nitrophenol	109	8.224	8.224	(1.021)	160436	25.0000	24
52	Fluorene	166	8.639	8.639	(1.072)	578977	10.0000	11
53	4-Chlorophenyl-phenylether	204	8.651	8.651	(1.074)	241167	10.0000	11
54	Diethylphthalate	149	8.550	8.550	(1.061)	552550	10.0000	10
55	4-Nitroaniline	138	8.669	8.669	(1.076)	142921	10.0000	9
$ 56	2,4,6-Tribromophenol	330	8.895	8.895	(1.104)	197846	25.0000	25
* 57	Phenanthrene-d10	188	9.625	9.625	(1.000)	1522097	20.0000	
58	4,6-Dinitro-2-methylphenol	198	8.705	8.705	(0.904)	212657	25.0000	23
59	N-Nitrosodiphenylamine (1)	169	8.776	8.776	(0.912)	416698	10.0000	10
60	1,2-Diphenylhydrazine	77	8.817	8.817	(0.916)	650767	10.0000	10
61	4-Bromophenyl-phenylether	248	9.162	9.162	(0.952)	147226	10.0000	10
131	Atrazine	200	9.358	9.358	(0.972)	140797	10.0000	10
62	Hexachlorobenzene	284	9.227	9.227	(0.959)	167502	10.0000	11
63	Pentachlorophenol	266	9.435	9.435	(0.980)	234783	25.0000	24
64	Phenanthrene	178	9.648	9.648	(1.002)	862567	10.0000	10
65	Carbazole	167	9.880	9.880	(1.027)	849766	10.0000	10
66	Anthracene	178	9.702	9.702	(1.008)	886604	10.0000	11
67	Di-n-butylphthalate	149	10.278	10.278	(1.068)	1056468	10.0000	11
68	Fluoranthene	202	10.907	10.907	(1.133)	976952	10.0000	11
* 70	Chrysene-d12	240	12.509	12.509	(1.000)	1692322	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
71	Benzidine	184	9.512	9.512	(0.760)	21898	10.0000	9
72	Pyrene	202	11.144	11.144	(0.891)	1017345	10.0000	10
$ 73	Terphenyl-d14	244	11.322	11.322	(0.905)	685666	10.0000	10
74	Butylbenzylphthalate	149	11.856	11.856	(0.948)	482508	10.0000	10
124	3,3'-Dimethylbenzidine	212	11.833	11.833	(0.946)	127387	10.0000	9
75	3,3'-Dichlorobenzidine	252	12.474	12.474	(0.997)	261474	10.0000	10
76	Benzo(a)anthracene	228	12.497	12.497	(0.999)	885854	10.0000	10
77	Chrysene	228	12.539	12.539	(1.002)	908396	10.0000	11
78	Bis(2-Ethylhexyl)phthalate	149	12.563	12.563	(1.004)	603302	10.0000	10
* 79	Perylene-d12	264	14.693	14.693	(1.000)	1126006	20.0000	
80	Di-n-octylphthalate	149	13.489	13.489	(0.918)	760393	10.0000	11
81	Benzo(b)fluoranthene	252	14.046	14.046	(0.956)	732687	10.0000	9
82	Benzo(k)fluoranthene	252	14.088	14.088	(0.959)	836658	10.0000	9
83	Benzo(a)pyrene	252	14.587	14.587	(0.993)	586372	10.0000	9
84	Indeno(1,2,3-cd)pyrene	276	16.694	16.694	(1.136)	301869	10.0000	9
85	Dibenzo(a,h)anthracene	278	16.753	16.753	(1.140)	357223	10.0000	10
86	Benzo(g,h,i)perylene	276	17.216	17.216	(1.172)	340009	10.0000	10
167	Simazine	201	9.322	9.322	(0.969)	71976	10.0000	10(H)

QC Flag Legend

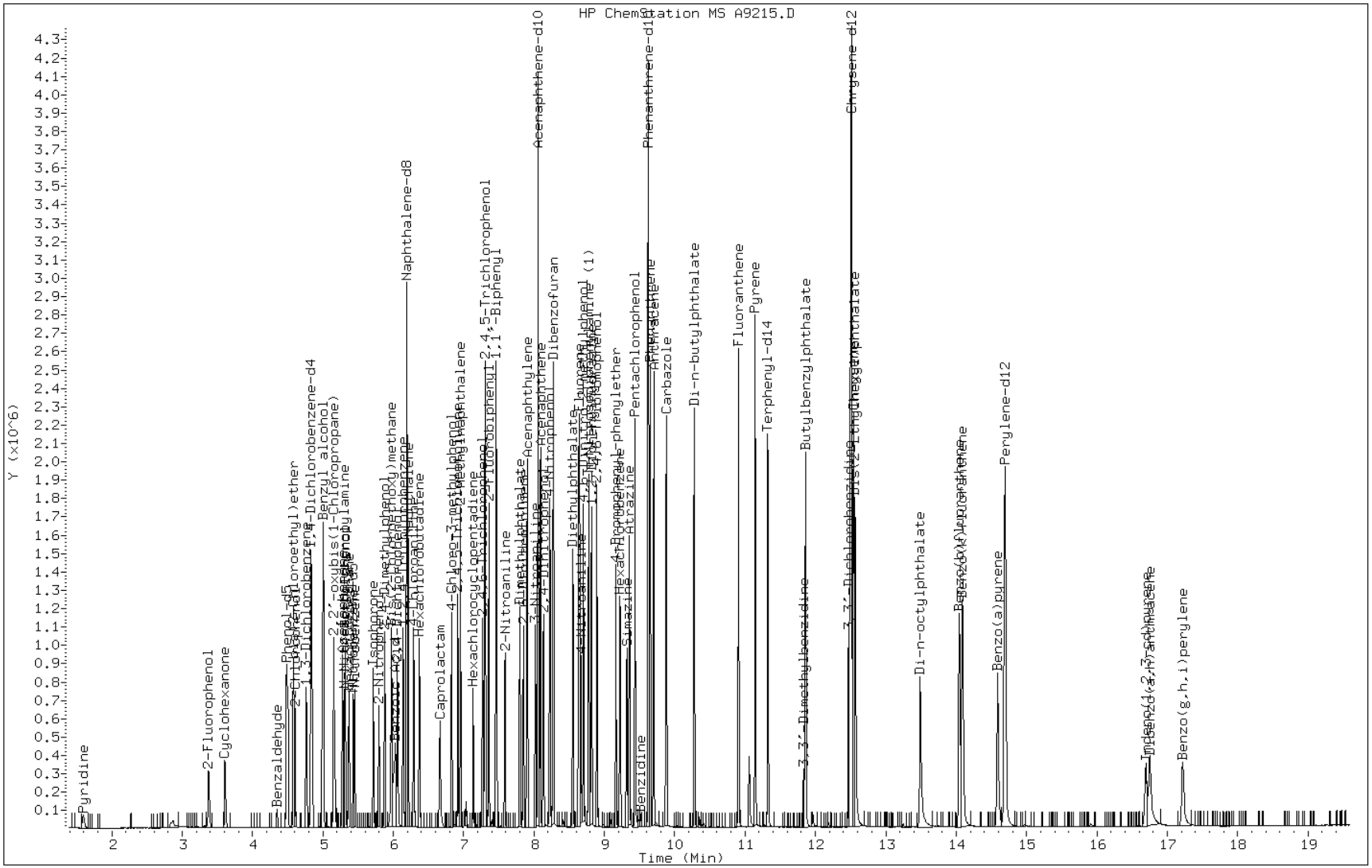
H - Operator selected an alternate compound hit.

Data File: A9215.D

Date: 21-DEC-2009 14:42

Client ID: IC-395383 Instrument: msa.i

Sample Info: IC-395383;10/25 Operator: S.Jonas



TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099200.b\A9216.D
Lab Smp Id: IC-395384 Client Smp ID: IC-395384
Inj Date : 21-DEC-2009 15:10
Operator : S.Jonas Inst ID: msa.i
Smp Info : IC-395384;20/30
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099200.b\MSA-8270C.m
Meth Date : 22-Dec-2009 07:08 msa.i Quant Type: ISTD
Cal Date : 21-DEC-2009 17:04 Cal File: Aa9220.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	4.829	4.829	(1.000)	251411	20.0000	
$ 2	2-Fluorophenol	112	3.381	3.381	(0.700)	279080	20.0000	20
$ 3	Phenol-d5	99	4.496	4.496	(0.931)	429482	20.0000	20
4	Pyridine	52	1.600	1.600	(0.331)	43507	20.0000	20
5	N-Nitrosodimethylamine	42	1.588	1.588	(0.329)	33910	20.0000	20
6	Cyclohexanone	42	3.606	3.606	(0.747)	167162	20.0000	22
128	Benzaldehyde	77	4.348	4.348	(0.900)	69082	20.0000	29
7	Phenol	94	4.508	4.508	(0.934)	433362	20.0000	21
8	Aniline	93	4.479	4.479	(0.927)	514688	20.0000	21
9	bis(2-Chloroethyl)ether	63	4.579	4.579	(0.948)	269570	20.0000	20(H)
10	2-Chlorophenol	128	4.603	4.603	(0.953)	361414	20.0000	21
11	1,3-Dichlorobenzene	146	4.763	4.763	(0.986)	409058	20.0000	21
12	1,4-Dichlorobenzene	146	4.847	4.847	(1.004)	418829	20.0000	21
13	Benzyl alcohol	108	5.007	5.007	(1.037)	227578	20.0000	21
14	1,2-Dichlorobenzene	146	5.007	5.007	(1.037)	390995	20.0000	21
15	2,2'-oxybis(1-Chloropropane)	45	5.161	5.161	(1.069)	596001	20.0000	21
16	2-Methylphenol	108	5.155	5.155	(1.068)	341403	20.0000	21
92	Acetophenone	105	5.280	5.280	(1.093)	491460	20.0000	20
17	Hexachloroethane	117	5.369	5.369	(1.112)	178633	20.0000	21
18	N-Nitroso-di-n-propylamine	70	5.304	5.304	(1.098)	285147	20.0000	21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
19	4-Methylphenol	108	5.321	5.321	(1.102)	375540	20.0000	21
* 20	Naphthalene-d8	136	6.194	6.194	(1.000)	1190559	20.0000	
$ 21	Nitrobenzene-d5	82	5.428	5.428	(0.876)	428929	20.0000	21
22	Nitrobenzene	77	5.452	5.452	(0.880)	413397	20.0000	21
23	Isophorone	82	5.719	5.719	(0.923)	767890	20.0000	20
24	2-Nitrophenol	139	5.796	5.796	(0.936)	230368	20.0000	21
25	2,4-Dimethylphenol	122	5.879	5.879	(0.949)	349791	20.0000	21
26	Benzoic Acid	122	6.045	6.045	(0.976)	391163	30.0000	30
27	Bis(2-Chloroethoxy)methane	93	5.974	5.974	(0.965)	483330	20.0000	21
28	2,4-Dichlorophenol	162	6.057	6.057	(0.978)	357373	20.0000	21
29	1,2,4-Trichlorobenzene	180	6.140	6.140	(0.991)	376817	20.0000	21
30	Naphthalene	128	6.212	6.212	(1.003)	1292898	20.0000	21
31	4-Chloroaniline	127	6.289	6.289	(1.015)	549020	20.0000	21
32	Hexachlorobutadiene	225	6.372	6.372	(1.029)	197827	20.0000	21
129	Caprolactam	113	6.681	6.681	(1.079)	128873	20.0000	21
33	4-Chloro-3-methylphenol	107	6.829	6.829	(1.103)	371897	20.0000	21
34	2-Methylnaphthalene	142	6.954	6.954	(1.123)	894243	20.0000	21
* 35	Acenaphthene-d10	164	8.058	8.058	(1.000)	851699	20.0000	
36	2,4,5-Trichlorotoluene	159	6.918	6.918	(1.433)	363447	20.0000	21
37	Hexachlorocyclopentadiene	237	7.138	7.138	(0.886)	210898	20.0000	21
38	2,4,6-Trichlorophenol	196	7.268	7.268	(0.902)	275686	20.0000	21
39	2,4,5-Trichlorophenol	196	7.304	7.304	(0.906)	425863	30.0000	30
$ 40	2-Fluorobiphenyl	172	7.357	7.357	(0.913)	1012013	20.0000	21
130	1,1'-Biphenyl	154	7.458	7.458	(0.926)	1103592	20.0000	22
41	2-Chloronaphthalene	162	7.470	7.470	(0.927)	858529	20.0000	21
42	2-Nitroaniline	65	7.589	7.589	(0.942)	299822	20.0000	20
43	Acenaphthylene	152	7.903	7.903	(0.981)	1589944	20.0000	21
44	Dimethylphthalate	163	7.802	7.802	(0.968)	997920	20.0000	20
45	2,6-Dinitrotoluene	165	7.850	7.850	(0.974)	238215	20.0000	21
46	Acenaphthene	153	8.087	8.087	(1.004)	972590	20.0000	21
47	3-Nitroaniline	138	8.022	8.022	(0.996)	302434	20.0000	21
48	2,4-Dinitrophenol	184	8.135	8.135	(1.010)	183105	30.0000	30
49	Dibenzofuran	168	8.277	8.277	(1.027)	1342206	20.0000	21
50	2,4-Dinitrotoluene	165	8.271	8.271	(1.027)	314623	20.0000	21
51	4-Nitrophenol	109	8.230	8.230	(1.021)	199363	30.0000	30
52	Fluorene	166	8.633	8.633	(1.071)	1155600	20.0000	22
53	4-Chlorophenyl-phenylether	204	8.651	8.651	(1.074)	478879	20.0000	21
54	Diethylphthalate	149	8.550	8.550	(1.061)	1115374	20.0000	21
55	4-Nitroaniline	138	8.675	8.675	(1.077)	303386	20.0000	20
$ 56	2,4,6-Tribromophenol	330	8.894	8.894	(1.104)	240724	30.0000	31
* 57	Phenanthrene-d10	188	9.624	9.624	(1.000)	1510762	20.0000	
58	4,6-Dinitro-2-methylphenol	198	8.704	8.704	(0.904)	277517	30.0000	30
59	N-Nitrosodiphenylamine (1)	169	8.776	8.776	(0.912)	835028	20.0000	21
60	1,2-Diphenylhydrazine	77	8.817	8.817	(0.916)	1303186	20.0000	21
61	4-Bromophenyl-phenylether	248	9.162	9.162	(0.952)	298688	20.0000	21
131	Atrazine	200	9.357	9.357	(0.972)	287562	20.0000	20
62	Hexachlorobenzene	284	9.221	9.221	(0.958)	331537	20.0000	21
63	Pentachlorophenol	266	9.435	9.435	(0.980)	300726	30.0000	31
64	Phenanthrene	178	9.648	9.648	(1.002)	1741764	20.0000	21
65	Carbazole	167	9.880	9.880	(1.027)	1705121	20.0000	21
66	Anthracene	178	9.702	9.702	(1.008)	1754818	20.0000	21
67	Di-n-butylphthalate	149	10.277	10.277	(1.068)	2115184	20.0000	21
68	Fluoranthene	202	10.906	10.906	(1.133)	1935358	20.0000	21
* 70	Chrysene-d12	240	12.509	12.509	(1.000)	1667342	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	71 Benzidine	184	9.512	9.512	(0.760)	45281	20.0000	18
	72 Pyrene	202	11.144	11.144	(0.891)	2023364	20.0000	20
$	73 Terphenyl-d14	244	11.322	11.322	(0.905)	1346690	20.0000	20
	74 Butylbenzylphthalate	149	11.856	11.856	(0.948)	1000299	20.0000	20
	124 3,3'-Dimethylbenzidine	212	11.826	11.826	(0.945)	317817	20.0000	22
	75 3,3'-Dichlorobenzidine	252	12.467	12.467	(0.997)	542106	20.0000	22
	76 Benzo(a)anthracene	228	12.491	12.491	(0.999)	1759217	20.0000	21
	77 Chrysene	228	12.539	12.539	(1.002)	1787131	20.0000	21
	78 Bis(2-Ethylhexyl)phthalate	149	12.562	12.562	(1.004)	1269395	20.0000	21
*	79 Perylene-d12	264	14.687	14.687	(1.000)	1056061	20.0000	
	80 Di-n-octylphthalate	149	13.482	13.482	(0.918)	1759603	20.0000	18
	81 Benzo(b)fluoranthene	252	14.046	14.046	(0.956)	1427464	20.0000	19
	82 Benzo(k)fluoranthene	252	14.094	14.094	(0.960)	1710928	20.0000	20
	83 Benzo(a)pyrene	252	14.586	14.586	(0.993)	1173439	20.0000	20
	84 Indeno(1,2,3-cd)pyrene	276	16.693	16.693	(1.137)	603683	20.0000	20
	85 Dibenzo(a,h)anthracene	278	16.747	16.747	(1.140)	637092	20.0000	19
	86 Benzo(g,h,i)perylene	276	17.216	17.216	(1.172)	628533	20.0000	19
	167 Simazine	201	9.328	9.328	(0.969)	148488	20.0000	20(H)

QC Flag Legend

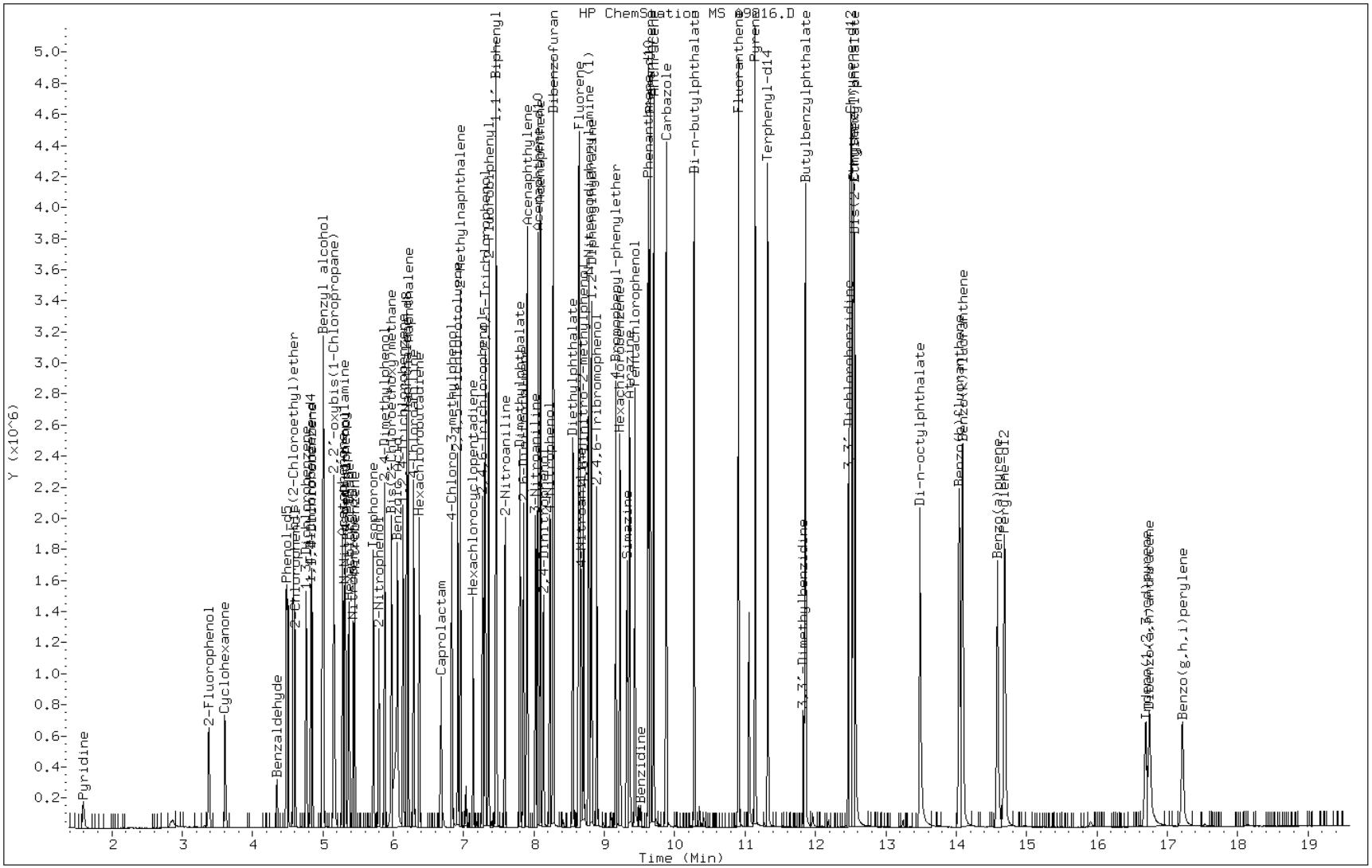
H - Operator selected an alternate compound hit.

Data File: A9216.D

Date: 21-DEC-2009 15:10

Client ID: IC-395384 Instrument: msa.i

Sample Info: IC-395384;20/30 Operator: S.Jonas



TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099200.b\A9217.D
Lab Smp Id: IC-395385 Client Smp ID: IC-395385
Inj Date : 21-DEC-2009 15:38
Operator : S.Jonas Inst ID: msa.i
Smp Info : IC-395385;60
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099200.b\MSA-8270C.m
Meth Date : 22-Dec-2009 07:08 msa.i Quant Type: ISTD
Cal Date : 21-DEC-2009 17:32 Cal File: Aa9221.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	4.829	4.829	(1.000)	234435	20.0000	
$ 2	2-Fluorophenol	112	3.387	3.387	(0.701)	800038	60.0000	63
$ 3	Phenol-d5	99	4.508	4.508	(0.934)	1211233	60.0000	62
4	Pyridine	52	1.600	1.600	(0.331)	126929	60.0000	63
5	N-Nitrosodimethylamine	42	1.594	1.594	(0.330)	99725	60.0000	63
6	Cyclohexanone	42	3.612	3.612	(0.748)	390124	60.0000	56
128	Benzaldehyde	77	4.348	4.348	(0.900)	144589	60.0000	66
7	Phenol	94	4.526	4.526	(0.937)	1170653	60.0000	60
8	Aniline	93	4.485	4.485	(0.929)	1421254	60.0000	61
9	bis(2-Chloroethyl)ether	63	4.591	4.591	(0.951)	773563	60.0000	61(H)
10	2-Chlorophenol	128	4.609	4.609	(0.955)	993284	60.0000	61
11	1,3-Dichlorobenzene	146	4.769	4.769	(0.988)	1121093	60.0000	61
12	1,4-Dichlorobenzene	146	4.853	4.853	(1.005)	1133844	60.0000	60
13	Benzyl alcohol	108	5.019	5.019	(1.039)	623359	60.0000	61
14	1,2-Dichlorobenzene	146	5.013	5.013	(1.038)	1013377	60.0000	58
15	2,2'-oxybis(1-Chloropropane)	45	5.173	5.173	(1.071)	1568767	60.0000	59
16	2-Methylphenol	108	5.167	5.167	(1.070)	911675	60.0000	60
92	Acetophenone	105	5.292	5.292	(1.096)	1384030	60.0000	62
17	Hexachloroethane	117	5.369	5.369	(1.112)	485553	60.0000	60
18	N-Nitroso-di-n-propylamine	70	5.321	5.321	(1.102)	771631	60.0000	60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
19	4-Methylphenol	108	5.333	5.333	(1.104)	995770	60.0000	60
* 20	Naphthalene-d8	136	6.194	6.194	(1.000)	1132374	20.0000	
$ 21	Nitrobenzene-d5	82	5.440	5.440	(0.878)	1215847	60.0000	61
22	Nitrobenzene	77	5.464	5.464	(0.882)	1158276	60.0000	61
23	Isophorone	82	5.731	5.731	(0.925)	2194226	60.0000	61
24	2-Nitrophenol	139	5.802	5.802	(0.937)	657168	60.0000	62
25	2,4-Dimethylphenol	122	5.891	5.891	(0.951)	983195	60.0000	61
26	Benzoic Acid	122	6.081	6.081	(0.982)	791932	60.0000	64(M)
27	Bis(2-Chloroethoxy)methane	93	5.986	5.986	(0.966)	1318232	60.0000	59
28	2,4-Dichlorophenol	162	6.069	6.069	(0.980)	974095	60.0000	60
29	1,2,4-Trichlorobenzene	180	6.146	6.146	(0.992)	1027039	60.0000	60
30	Naphthalene	128	6.218	6.218	(1.004)	3339322	60.0000	58
31	4-Chloroaniline	127	6.301	6.301	(1.017)	1468259	60.0000	60
32	Hexachlorobutadiene	225	6.372	6.372	(1.029)	542944	60.0000	60
129	Caprolactam	113	6.740	6.740	(1.088)	362284	60.0000	62
33	4-Chloro-3-methylphenol	107	6.847	6.847	(1.105)	1035770	60.0000	61
34	2-Methylnaphthalene	142	6.960	6.960	(1.124)	2311360	60.0000	58
* 35	Acenaphthene-d10	164	8.058	8.058	(1.000)	799212	20.0000	
36	2,4,5-Trichlorotoluene	159	6.924	6.924	(1.434)	969387	60.0000	60
37	Hexachlorocyclopentadiene	237	7.138	7.138	(0.886)	599909	60.0000	65
38	2,4,6-Trichlorophenol	196	7.274	7.274	(0.903)	771906	60.0000	61
39	2,4,5-Trichlorophenol	196	7.316	7.316	(0.908)	819357	60.0000	62
$ 40	2-Fluorobiphenyl	172	7.363	7.363	(0.914)	2622575	60.0000	58
130	1,1'-Biphenyl	154	7.464	7.464	(0.926)	2604757	60.0000	55
41	2-Chloronaphthalene	162	7.476	7.476	(0.928)	2148992	60.0000	56
42	2-Nitroaniline	65	7.601	7.601	(0.943)	840097	60.0000	61
43	Acenaphthylene	152	7.909	7.909	(0.982)	4125717	60.0000	58
44	Dimethylphthalate	163	7.814	7.814	(0.970)	2811303	60.0000	61
45	2,6-Dinitrotoluene	165	7.868	7.868	(0.976)	684408	60.0000	63
46	Acenaphthene	153	8.099	8.099	(1.005)	2519845	60.0000	57
47	3-Nitroaniline	138	8.040	8.040	(0.998)	857041	60.0000	63
48	2,4-Dinitrophenol	184	8.147	8.147	(1.011)	419798	60.0000	61
49	Dibenzofuran	168	8.283	8.283	(1.028)	3373578	60.0000	57
50	2,4-Dinitrotoluene	165	8.289	8.289	(1.029)	839648	60.0000	59
51	4-Nitrophenol	109	8.242	8.242	(1.023)	403607	60.0000	65
52	Fluorene	166	8.645	8.645	(1.073)	2813820	60.0000	56
53	4-Chlorophenyl-phenylether	204	8.657	8.657	(1.074)	1219815	60.0000	57
54	Diethylphthalate	149	8.562	8.562	(1.063)	3016951	60.0000	60
55	4-Nitroaniline	138	8.699	8.699	(1.080)	911517	60.0000	64
$ 56	2,4,6-Tribromophenol	330	8.900	8.900	(1.105)	432058	60.0000	59
* 57	Phenanthrene-d10	188	9.630	9.630	(1.000)	1443265	20.0000	
58	4,6-Dinitro-2-methylphenol	198	8.722	8.722	(0.906)	570311	60.0000	64
59	N-Nitrosodiphenylamine (1)	169	8.788	8.788	(0.912)	2288571	60.0000	60
60	1,2-Diphenylhydrazine	77	8.823	8.823	(0.916)	3359296	60.0000	57
61	4-Bromophenyl-phenylether	248	9.168	9.168	(0.952)	786004	60.0000	58
131	Atrazine	200	9.375	9.375	(0.973)	865641	60.0000	64
62	Hexachlorobenzene	284	9.233	9.233	(0.959)	837331	60.0000	56
63	Pentachlorophenol	266	9.441	9.441	(0.980)	602313	60.0000	65
64	Phenanthrene	178	9.660	9.660	(1.003)	4491698	60.0000	57
65	Carbazole	167	9.892	9.892	(1.027)	4505612	60.0000	58
66	Anthracene	178	9.714	9.714	(1.009)	4492205	60.0000	57
67	Di-n-butylphthalate	149	10.283	10.283	(1.068)	5448894	60.0000	58
68	Fluoranthene	202	10.918	10.918	(1.134)	5023243	60.0000	58
* 70	Chrysene-d12	240	12.515	12.515	(1.000)	1391359	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	71 Benzidine	184	9.512	9.512	(0.760)	135132	60.0000	66
	72 Pyrene	202	11.156	11.156	(0.891)	5240001	60.0000	62
$	73 Terphenyl-d14	244	11.328	11.328	(0.905)	3294385	60.0000	59
	74 Butylbenzylphthalate	149	11.862	11.862	(0.948)	2641368	60.0000	64
	124 3,3'-Dimethylbenzidine	212	11.832	11.832	(0.945)	842396	60.0000	71
	75 3,3'-Dichlorobenzidine	252	12.479	12.479	(0.997)	1285280	60.0000	62
	76 Benzo(a)anthracene	228	12.503	12.503	(0.999)	4343247	60.0000	61
	77 Chrysene	228	12.557	12.557	(1.003)	4116147	60.0000	58
	78 Bis(2-Ethylhexyl)phthalate	149	12.568	12.568	(1.004)	3164603	60.0000	63
*	79 Perylene-d12	264	14.687	14.687	(1.000)	674312	20.0000	
	80 Di-n-octylphthalate	149	13.488	13.488	(0.918)	4805580	60.0000	58
	81 Benzo(b)fluoranthene	252	14.058	14.058	(0.957)	3141800	60.0000	66
	82 Benzo(k)fluoranthene	252	14.106	14.106	(0.960)	3452854	60.0000	64
	83 Benzo(a)pyrene	252	14.598	14.598	(0.994)	2371992	60.0000	64
	84 Indeno(1,2,3-cd)pyrene	276	16.699	16.699	(1.137)	1317922	60.0000	68
	85 Dibenzo(a,h)anthracene	278	16.753	16.753	(1.141)	1413648	60.0000	67
	86 Benzo(g,h,i)perylene	276	17.228	17.228	(1.173)	1479150	60.0000	70
	167 Simazine	201	9.352	9.352	(0.971)	444074	60.0000	63

QC Flag Legend

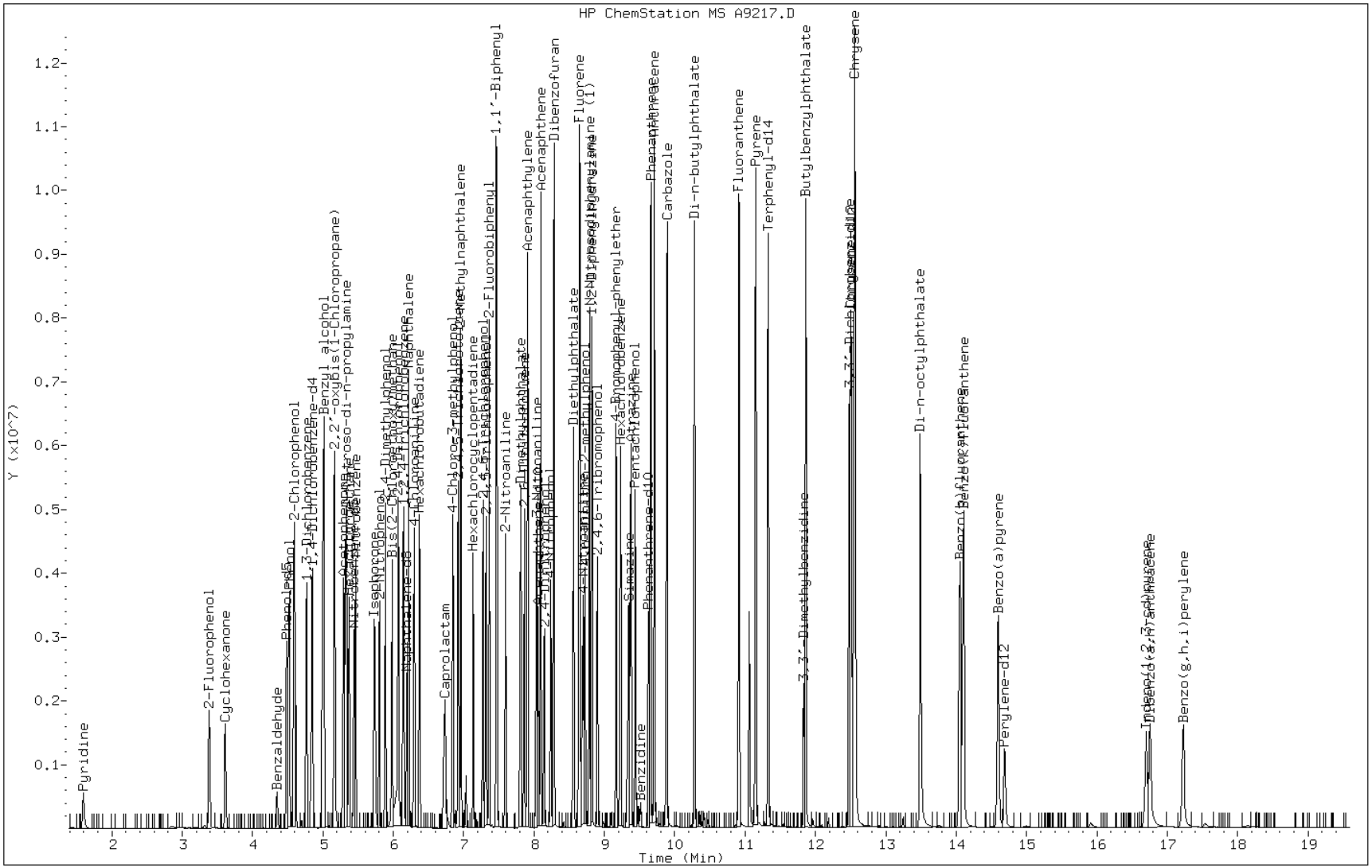
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: A9217.D

Date: 21-DEC-2009 15:38

Client ID: IC-395385 Instrument: msa.i

Sample Info: IC-395385;60 Operator: S.Jonas



Manual Integration Report

Data File: A9217.D
Inj. Date and Time: 21-DEC-2009 15:38
Instrument ID: msa.i
Client ID: IC-395385
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/22/2009

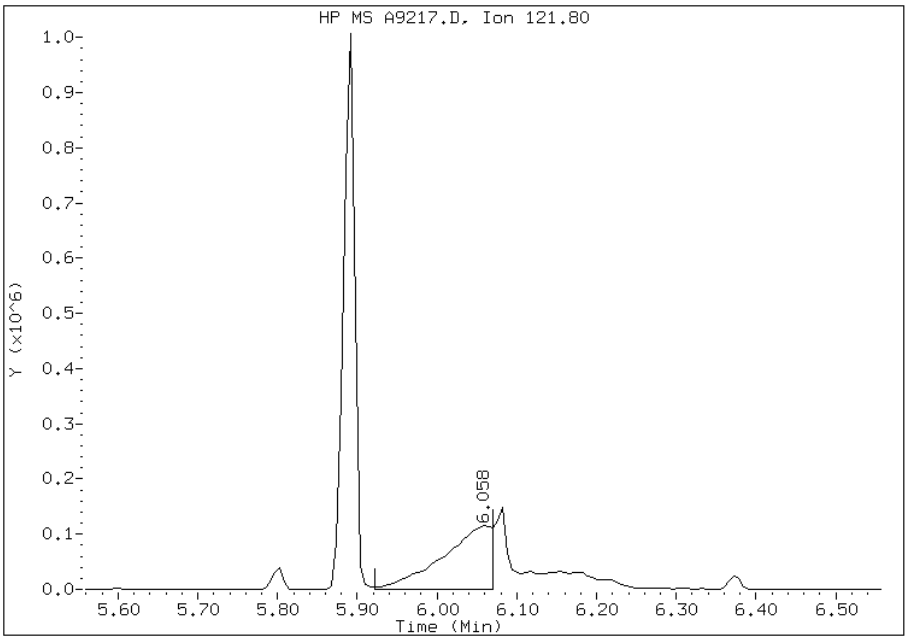
Processing Integration Results

RT: 6.06

Response: 497135

Amount: 50

Conc: 50



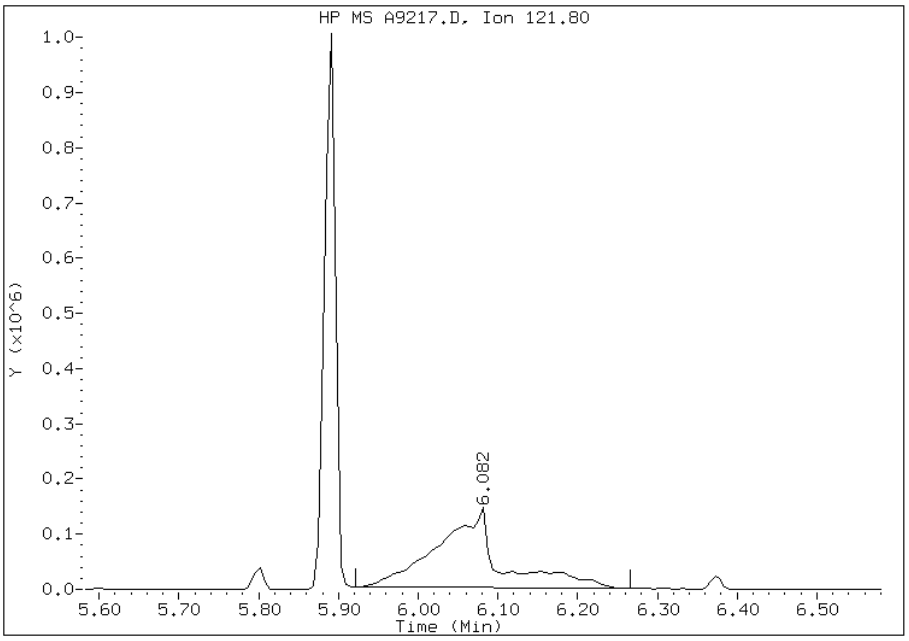
Manual Integration Results

RT: 6.08

Response: 791932

Amount: 64

Conc: 64



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099200.b\A9218.D
Lab Smp Id: IC-395386 Client Smp ID: IC-395386
Inj Date : 21-DEC-2009 16:07
Operator : S.Jonas Inst ID: msa.i
Smp Info : IC-395386;80
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099200.b\MSA-8270C.m
Meth Date : 22-Dec-2009 07:08 msa.i Quant Type: ISTD
Cal Date : 21-DEC-2009 18:27 Cal File: Aa9223.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	4.835	4.835	(1.000)	261035	20.0000	
$ 2	2-Fluorophenol	112	3.392	3.392	(0.702)	1139904	80.0000	80(A)
$ 3	Phenol-d5	99	4.520	4.520	(0.935)	1711502	80.0000	78
4	Pyridine	52	1.600	1.600	(0.331)	182694	80.0000	82(A)
5	N-Nitrosodimethylamine	42	1.594	1.594	(0.330)	142464	80.0000	80(A)
6	Cyclohexanone	42	3.612	3.612	(0.747)	471018	80.0000	60
128	Benzaldehyde	77	4.348	4.348	(0.899)	179920	80.0000	73
7	Phenol	94	4.538	4.538	(0.939)	1678837	80.0000	77
8	Aniline	93	4.490	4.490	(0.929)	1999294	80.0000	77
9	bis(2-Chloroethyl)ether	63	4.591	4.591	(0.950)	1087453	80.0000	78(H)
10	2-Chlorophenol	128	4.615	4.615	(0.955)	1369638	80.0000	76
11	1,3-Dichlorobenzene	146	4.769	4.769	(0.986)	1562270	80.0000	76
12	1,4-Dichlorobenzene	146	4.853	4.853	(1.004)	1566491	80.0000	75
13	Benzyl alcohol	108	5.031	5.031	(1.041)	878562	80.0000	77
14	1,2-Dichlorobenzene	146	5.013	5.013	(1.037)	1383905	80.0000	71
15	2,2'-oxybis(1-Chloropropane)	45	5.173	5.173	(1.070)	2153999	80.0000	73
16	2-Methylphenol	108	5.173	5.173	(1.070)	1277808	80.0000	75
92	Acetophenone	105	5.304	5.304	(1.097)	1947111	80.0000	78
17	Hexachloroethane	117	5.375	5.375	(1.112)	677648	80.0000	76
18	N-Nitroso-di-n-propylamine	70	5.327	5.327	(1.102)	1049497	80.0000	74

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.345	5.345	(1.106)	1383423	80.0000	75
*	20 Naphthalene-d8	136	6.200	6.200	(1.000)	1258646	20.0000	
$	21 Nitrobenzene-d5	82	5.446	5.446	(0.878)	1724439	80.0000	78
	22 Nitrobenzene	77	5.470	5.470	(0.882)	1617658	80.0000	76
	23 Isophorone	82	5.743	5.743	(0.926)	3189771	80.0000	80(A)
	24 2-Nitrophenol	139	5.808	5.808	(0.937)	932653	80.0000	79
	25 2,4-Dimethylphenol	122	5.897	5.897	(0.951)	1400428	80.0000	78
	26 Benzoic Acid	122	6.117	6.117	(0.987)	1190034	80.0000	87(AM)
	27 Bis(2-Chloroethoxy)methane	93	5.992	5.992	(0.966)	1860175	80.0000	75
	28 2,4-Dichlorophenol	162	6.075	6.075	(0.980)	1359288	80.0000	76
	29 1,2,4-Trichlorobenzene	180	6.146	6.146	(0.991)	1417053	80.0000	74
	30 Naphthalene	128	6.224	6.224	(1.004)	4549504	80.0000	71
	31 4-Chloroaniline	127	6.301	6.301	(1.016)	1990370	80.0000	74
	32 Hexachlorobutadiene	225	6.378	6.378	(1.029)	740862	80.0000	74
	129 Caprolactam	113	6.770	6.770	(1.092)	507922	80.0000	78
	33 4-Chloro-3-methylphenol	107	6.859	6.859	(1.106)	1430145	80.0000	76
	34 2-Methylnaphthalene	142	6.965	6.965	(1.123)	3162484	80.0000	71
*	35 Acenaphthene-d10	164	8.064	8.064	(1.000)	885720	20.0000	
	36 2,4,5-Trichlorotoluene	159	6.924	6.924	(1.432)	1360861	80.0000	76
	37 Hexachlorocyclopentadiene	237	7.138	7.138	(0.885)	819203	80.0000	80
	38 2,4,6-Trichlorophenol	196	7.280	7.280	(0.903)	1092671	80.0000	78
	39 2,4,5-Trichlorophenol	196	7.328	7.328	(0.909)	1159899	80.0000	79
$	40 2-Fluorobiphenyl	172	7.369	7.369	(0.914)	3599727	80.0000	72
	130 1,1'-Biphenyl	154	7.470	7.470	(0.926)	3299598	80.0000	62
	41 2-Chloronaphthalene	162	7.482	7.482	(0.928)	2854710	80.0000	67
	42 2-Nitroaniline	65	7.607	7.607	(0.943)	1202430	80.0000	79
	43 Acenaphthylene	152	7.915	7.915	(0.982)	5586456	80.0000	71
	44 Dimethylphthalate	163	7.820	7.820	(0.970)	3994720	80.0000	78
	45 2,6-Dinitrotoluene	165	7.874	7.874	(0.976)	965133	80.0000	80(A)
	46 Acenaphthene	153	8.105	8.105	(1.005)	3404371	80.0000	70
	47 3-Nitroaniline	138	8.046	8.046	(0.998)	1221317	80.0000	81(A)
	48 2,4-Dinitrophenol	184	8.153	8.153	(1.011)	635486	80.0000	80(A)
	49 Dibenzofuran	168	8.289	8.289	(1.028)	4534466	80.0000	69
	50 2,4-Dinitrotoluene	165	8.295	8.295	(1.029)	1161770	80.0000	74
	51 4-Nitrophenol	109	8.253	8.253	(1.024)	572829	80.0000	83(A)
	52 Fluorene	166	8.645	8.645	(1.072)	3689643	80.0000	67
	53 4-Chlorophenyl-phenylether	204	8.657	8.657	(1.074)	1626368	80.0000	69
	54 Diethylphthalate	149	8.568	8.568	(1.063)	4213683	80.0000	75
	55 4-Nitroaniline	138	8.716	8.716	(1.081)	1281669	80.0000	81(A)
$	56 2,4,6-Tribromophenol	330	8.906	8.906	(1.105)	592752	80.0000	73
*	57 Phenanthrene-d10	188	9.630	9.630	(1.000)	1608857	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.734	8.734	(0.907)	830697	80.0000	83(A)
	59 N-Nitrosodiphenylamine (1)	169	8.794	8.794	(0.913)	3118130	80.0000	73
	60 1,2-Diphenylhydrazine	77	8.829	8.829	(0.917)	4625747	80.0000	71
	61 4-Bromophenyl-phenylether	248	9.173	9.173	(0.953)	1096171	80.0000	73
	131 Atrazine	200	9.387	9.387	(0.975)	1203159	80.0000	80(A)
	62 Hexachlorobenzene	284	9.239	9.239	(0.959)	1163747	80.0000	70
	63 Pentachlorophenol	266	9.446	9.446	(0.981)	855343	80.0000	82(A)
	64 Phenanthrene	178	9.660	9.660	(1.003)	6069056	80.0000	70
	65 Carbazole	167	9.898	9.898	(1.028)	6151572	80.0000	71
	66 Anthracene	178	9.719	9.719	(1.009)	5978117	80.0000	68
	67 Di-n-butylphthalate	149	10.283	10.283	(1.068)	7377152	80.0000	70
	68 Fluoranthene	202	10.918	10.918	(1.134)	6696559	80.0000	69
*	70 Chrysene-d12	240	12.521	12.521	(1.000)	1387443	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
71	Benzidine	184	9.518	9.518	(0.760)	199951	80.0000	98(A)
72	Pyrene	202	11.156	11.156	(0.891)	6898553	80.0000	81(A)
$ 73	Terphenyl-d14	244	11.334	11.334	(0.905)	4386800	80.0000	79
74	Butylbenzylphthalate	149	11.862	11.862	(0.947)	3476168	80.0000	84(A)
124	3,3'-Dimethylbenzidine	212	11.832	11.832	(0.945)	890644	80.0000	75
75	3,3'-Dichlorobenzidine	252	12.485	12.485	(0.997)	1511640	80.0000	73
76	Benzo(a)anthracene	228	12.509	12.509	(0.999)	5415490	80.0000	76
77	Chrysene	228	12.557	12.557	(1.003)	5046314	80.0000	71
78	Bis(2-Ethylhexyl)phthalate	149	12.568	12.568	(1.004)	3892273	80.0000	77
* 79	Perylene-d12	264	14.687	14.687	(1.000)	583998	20.0000	
80	Di-n-octylphthalate	149	13.488	13.488	(0.918)	6132328	80.0000	83(A)
81	Benzo(b)fluoranthene	252	14.058	14.058	(0.957)	3697150	80.0000	90(A)
82	Benzo(k)fluoranthene	252	14.112	14.112	(0.961)	3812320	80.0000	82(A)
83	Benzo(a)pyrene	252	14.598	14.598	(0.994)	2721953	80.0000	85(A)
84	Indeno(1,2,3-cd)pyrene	276	16.705	16.705	(1.137)	1915840	80.0000	110(A)
85	Dibenzo(a,h)anthracene	278	16.765	16.765	(1.141)	2014954	80.0000	110(A)
86	Benzo(g,h,i)perylene	276	17.239	17.239	(1.174)	2171689	80.0000	120(A)
167	Simazine	201	9.363	9.363	(0.972)	652400	80.0000	83(A)

QC Flag Legend

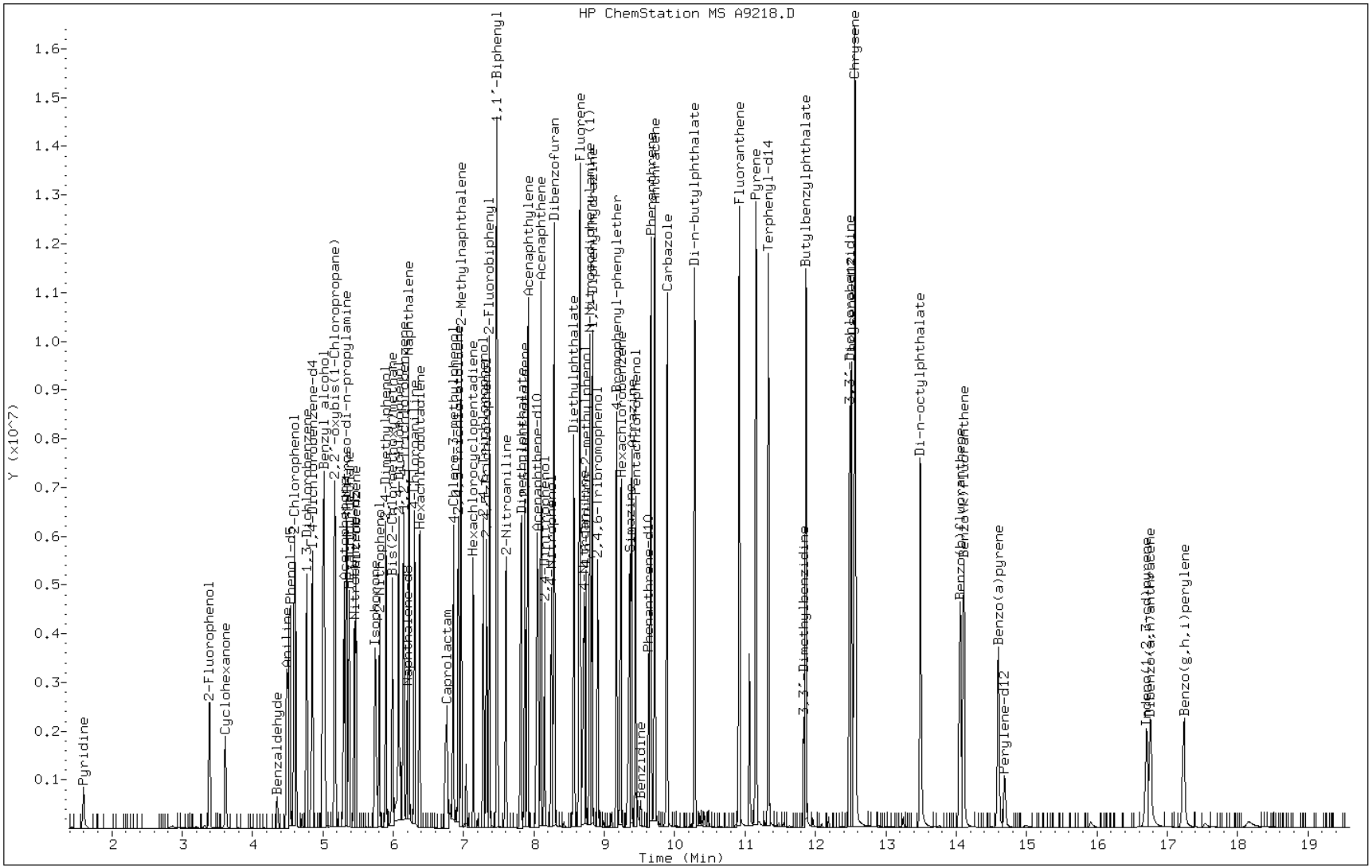
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: A9218.D

Date: 21-DEC-2009 16:07

Client ID: IC-395386 Instrument: msa.i

Sample Info: IC-395386;80 Operator: S.Jonas



Manual Integration Report

Data File: A9218.D
Inj. Date and Time: 21-DEC-2009 16:07
Instrument ID: msa.i
Client ID: IC-395386
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/22/2009

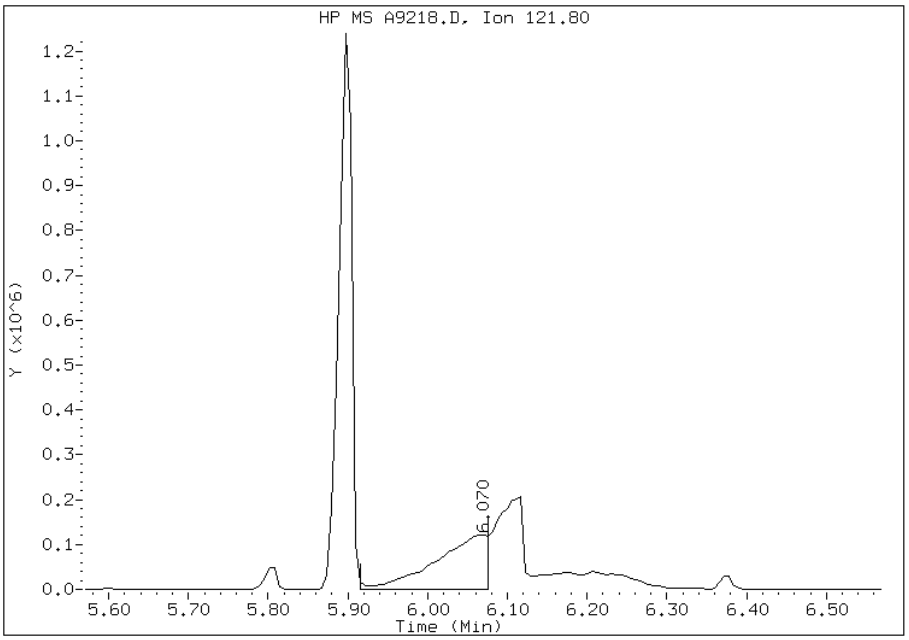
Processing Integration Results

RT: 6.07

Response: 552092

Amount: 45

Conc: 45



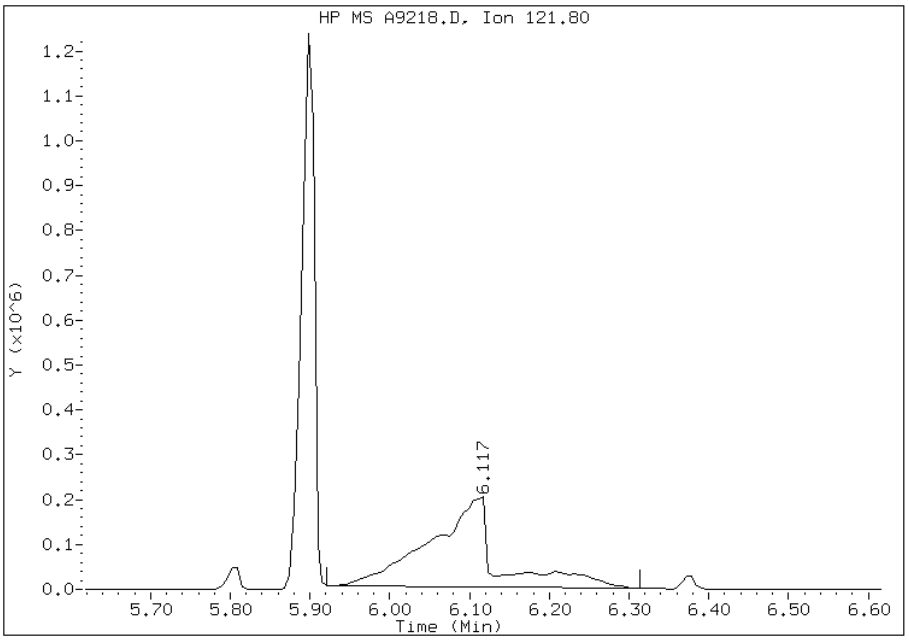
Manual Integration Results

RT: 6.12

Response: 1190034

Amount: 87

Conc: 87



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34464/2	C15332.D
Level 2	IC 220-34464/3	C15333.D
Level 3	IC 220-34464/5	C15334.D
Level 4	ICIS 220-34464/1	C15331.D
Level 5	IC 220-34464/6	C15335.D
Level 6	IC 220-34464/7	C15336.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodimethylamine	0.2159 0.2311	0.2262	0.2073	0.2096	0.2274	Ave		0.2196				4.6		15.0			
Pyridine	0.2486 0.3223	0.2979	0.3140	0.3027	0.3331	Ave		0.3031				9.8		15.0			
Cyclohexanone	0.6433 0.5019	0.6702	0.6510	0.6552	0.5904	Ave		0.6186				10.2		15.0			
Benzaldehyde	0.0781 0.1313	0.1455	0.2042	0.1466	0.1632	Ave		0.1448				28.5	*	15.0			
Aniline	2.2766 2.0921	2.2854	2.2041	2.1929	2.1878	Ave		2.2065				3.2		15.0			
Phenol	2.0432 1.9288	2.0764	1.9980	1.9738	2.0304	Ave		2.0084				2.6		30.0			
Bis(2-chloroethyl)ether	1.0747 1.0059	1.0904	1.0567	1.0375	1.0786	Ave		1.0573				3.0		15.0			
2-Chlorophenol	1.4971 1.4966	1.5200	1.5008	1.5134	1.5673	Ave		1.5159				1.8		15.0			
1,3-Dichlorobenzene	1.6577 1.6644	1.7388	1.6979	1.6610	1.7459	Ave		1.6943				2.4		15.0			
1,4-Dichlorobenzene	1.7258 1.6853	1.7384	1.7076	1.7036	1.7921	Ave		1.7255				2.2		30.0			
Benzyl alcohol	1.0371 0.9421	1.0735	1.0543	1.0056	1.0216	Ave		1.0224				4.5		15.0			
1,2-Dichlorobenzene	1.6918 1.5473	1.7171	1.6632	1.6113	1.6585	Ave		1.6482				3.7		15.0			
2-Methylphenol	1.4576 1.4198	1.5125	1.4659	1.4683	1.4798	Ave		1.4673				2.1		15.0			
2,2'-oxybis[1-chloropropane]	2.0037 1.8630	2.0405	1.9936	1.9693	1.9615	Ave		1.9719				3.1		15.0			
Acetophenone	2.2933 2.1793	2.3199	2.2382	2.2280	2.3071	Ave		2.2610				2.4		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodi-n-propylamine	1.2395 1.1499	1.2837	1.2459	1.1990	1.2173	Ave		1.2225			0.0500	3.7		15.0			
4-Methylphenol	1.5693 1.4704	1.6060	1.5815	1.5430	1.5628	Ave		1.5555				3.0		15.0			
Hexachloroethane	0.6791 0.6836	0.6941	0.6865	0.7033	0.7204	Ave		0.6945				2.2		15.0			
Nitrobenzene	0.3522 0.3621	0.3672	0.3696	0.3814	0.3739	Ave		0.3677				2.7		15.0			
Isophorone	0.6786 0.6734	0.7100	0.6876	0.7009	0.6943	Ave		0.6908				2.0		15.0			
2-Nitrophenol	0.1400 0.1856	0.1619	0.1699	0.1850	0.1882	Ave		0.1718				10.9		30.0			
2,4-Dimethylphenol	0.2988 0.2982	0.3060	0.3037	0.3152	0.3080	Ave		0.3050				2.1		15.0			
Bis(2-chloroethoxy)methane	0.4061 0.3959	0.4247	0.4144	0.4221	0.4124	Ave		0.4126				2.6		15.0			
Benzoic acid	0.1131 0.2041	0.1779	0.1767	0.1946	0.1971	Lin	0.2398	0.2165						15.0	0.9995		0.9900
2,4-Dichlorophenol	0.2924 0.2958	0.3020	0.3002	0.3050	0.3037	Ave		0.2998				1.6		30.0			
1,2,4-Trichlorobenzene	0.3184 0.3183	0.3315	0.3224	0.3241	0.3253	Ave		0.3233				1.5		15.0			
Naphthalene	1.1172 1.0070	1.1253	1.0973	1.0922	1.0611	Ave		1.0833				4.0		15.0			
4-Chloroaniline	0.4367 0.4208	0.4636	0.4543	0.4616	0.4429	Ave		0.4466				3.7		15.0			
Hexachlorobutadiene	0.1908 0.2014	0.2019	0.2017	0.2013	0.2061	Ave		0.2005				2.6		30.0			
Caprolactam	0.1159 0.1292	0.1240	0.1215	0.1273	0.1291	Ave		0.1245				4.1		15.0			
4-Chloro-3-methylphenol	0.3230 0.3441	0.3546	0.3496	0.3538	0.3560	Ave		0.3468				3.6		30.0			
2,4,5-Trichlorotoluene	1.4936 1.4703	1.5915	1.5263	1.4684	1.5443	Ave		1.5157				3.2		15.0			
2-Methylnaphthalene	0.7520 0.6876	0.7832	0.7554	0.7427	0.7173	Ave		0.7397				4.5		15.0			
Hexachlorocyclopentadiene	0.2536 0.3339	0.2823	0.2920	0.3444	0.3344	Ave		0.3068			0.0500	11.8		15.0			
2,4,6-Trichlorophenol	0.3034 0.3346	0.3282	0.3400	0.3480	0.3430	Ave		0.3329				4.8		30.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,4,5-Trichlorophenol	0.3420 0.3606	0.3446	0.3621	0.3737	0.3754	Ave		0.3597				3.9		15.0			
1,1'-Biphenyl	1.3351 1.1539	1.3375	1.2925	1.3050	1.2248	Ave		1.2748				5.6		15.0			
2-Chloronaphthalene	1.0917 0.9675	1.0835	1.0592	1.0608	1.0092	Ave		1.0453				4.6		15.0			
2-Nitroaniline	0.2850 0.3422	0.3238	0.3322	0.3534	0.3483	Ave		0.3308				7.5		15.0			
Dimethyl phthalate	1.2814 1.2117	1.3003	1.2717	1.3021	1.2391	Ave		1.2677				2.8		15.0			
2,6-Dinitrotoluene	0.2197 0.2893	0.2682	0.2739	0.2923	0.2901	Ave		0.2723				10.1		15.0			
Acenaphthylene	1.8881 1.6229	1.8195	1.8053	1.8032	1.7076	Ave		1.7744				5.3		15.0			
3-Nitroaniline	0.2833 0.3345	0.3299	0.3291	0.3422	0.3423	Ave		0.3269				6.8		15.0			
Acenaphthene	1.1260 0.9855	1.1130	1.1048	1.1052	1.0289	Ave		1.0772				5.2		30.0			
2,4-Dinitrophenol	+++++ 0.1457	0.1009	0.0997	0.1238	0.1359	Lin	0.5518	0.1684			0.0500			15.0	0.9985		0.9900
4-Nitrophenol	0.1556 0.1797	0.1707	0.1707	0.1814	0.1815	Ave		0.1733			0.0500	5.8		15.0			
2,4-Dinitrotoluene	0.3550 0.3764	0.3910	0.3919	0.4139	0.3876	Ave		0.3860				5.0		15.0			
Dibenzofuran	1.6623 1.4295	1.6893	1.6394	1.6072	1.4868	Ave		1.5857				6.6		15.0			
Diethyl phthalate	2.7301 1.2880	1.9109	1.5562	1.4587	1.3357	Lin	-0.290	1.2168						15.0	0.9985		0.9900
Fluorene	1.3822 1.1647	1.3928	1.3250	1.3002	1.2232	Ave		1.2980				6.9		15.0			
4-Chlorophenyl phenyl ether	0.6286 0.5652	0.6535	0.6125	0.6190	0.5814	Ave		0.6101				5.3		15.0			
4-Nitroaniline	0.3291 0.3598	0.3651	0.3522	0.3763	0.3661	Ave		0.3581				4.5		15.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1333	0.1103	0.1089	0.1210	0.1281	Ave		0.1203				8.9		15.0			
N-Nitrosodiphenylamine	0.5657 0.5439	0.5814	0.5852	0.5824	0.5608	Ave		0.5699				2.8		30.0			
1,2-Diphenylhydrazine	0.8462 0.7628	0.8381	0.8351	0.8529	0.7978	Ave		0.8222				4.2		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Bromophenyl phenyl ether	0.2123 0.2067	0.2102	0.2125	0.2084	0.2092	Ave		0.2099				1.1		15.0			
Hexachlorobenzene	0.2208 0.2222	0.2310	0.2267	0.2261	0.2284	Ave		0.2259				1.7		15.0			
Simazine	0.1105 0.1172	0.1121	0.1149	0.1172	0.1201	Ave		0.1153				3.1		15.0			
Atrazine	0.2143 0.2168	0.2261	0.2226	0.2259	0.2206	Ave		0.2211				2.2		15.0			
Pentachlorophenol	0.1249 0.1485	0.1330	0.1308	0.1375	0.1450	Ave		0.1366				6.5		30.0			
Benzidine	0.0244 0.0291	0.0263	0.0265	0.0275	0.0289	Ave		0.0271				6.6		15.0			
Phenanthrene	1.1855 1.0334	1.1674	1.1494	1.1471	1.0854	Ave		1.1280				5.1		15.0			
Anthracene	1.2813 1.0647	1.2028	1.1876	1.1770	1.1159	Ave		1.1716				6.4		15.0			
Carbazole	1.1639 1.0403	1.1627	1.1490	1.1386	1.0776	Ave		1.1220				4.6		15.0			
Di-n-butyl phthalate	1.3828 1.2543	1.3948	1.3747	1.3882	1.3171	Ave		1.3520				4.1		15.0			
Fluoranthene	1.3288 1.2145	1.3500	1.3342	1.3264	1.2510	Ave		1.3008				4.2		30.0			
Pyrene	1.1957 1.1324	1.2097	1.2078	1.2184	1.1860	Ave		1.1917				2.6		15.0			
3,3'-Dimethylbenzidine	0.1597 0.2651	0.1886	0.2358	0.2507	0.2755	Ave		0.2292				19.9	*	15.0			
Butyl benzyl phthalate	0.5109 0.5570	0.5389	0.5453	0.5844	0.5747	Ave		0.5519				4.8		15.0			
3,3'-Dichlorobenzidine	0.3294 0.3750	0.3329	0.3456	0.3603	0.3800	Ave		0.3539				6.0		15.0			
Benzo[a]anthracene	1.1100 1.1304	1.1193	1.1136	1.1595	1.1540	Ave		1.1311				1.9		15.0			
Bis(2-ethylhexyl) phthalate	0.7430 0.7250	0.7583	0.7511	0.7873	0.7522	Ave		0.7528				2.7		15.0			
Chrysene	1.1208 1.0374	1.1160	1.1115	1.0979	1.0725	Ave		1.0927				2.9		15.0			
Di-n-octyl phthalate	1.2099 1.7671	1.4849	1.5231	1.7593	1.7426	Ave		1.5812				13.9		30.0			
Benzo[b]fluoranthene	1.3143 1.4465	1.3232	1.3578	1.4705	1.3913	Ave		1.3839				4.6		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.4037 1.5208	1.4905	1.5186	1.5422	1.5643	Ave		1.5067				3.7		15.0			
Benzo[a]pyrene	1.0970 1.2282	1.1247	1.1692	1.2407	1.2159	Ave		1.1793				5.0		30.0			
Indeno[1,2,3-cd]pyrene	1.0657 0.9396	1.0026	1.1183	1.0947	0.9887	Ave		1.0349				6.7		15.0			
Dibenz(a,h)anthracene	1.0446 1.0482	1.0193	1.2171	1.1832	1.0848	Ave		1.0995				7.4		15.0			
Benzo[g,h,i]perylene	1.3087 0.9380	1.1947	1.2611	1.0918	0.9640	Ave		1.1264				13.7		15.0			
2-Fluorophenol	1.2307 1.2851	1.2526	1.2398	1.2633	1.3446	Ave		1.2693				3.3		15.0			
Phenol-d5	1.7768 1.7232	1.8399	1.7893	1.7531	1.7758	Ave		1.7764				2.2		15.0			
Nitrobenzene-d5	0.3464 0.3761	0.3682	0.3676	0.3858	0.3771	Ave		0.3702				3.6		15.0			
2-Fluorobiphenyl	1.2326 1.1233	1.2468	1.2314	1.2343	1.1753	Ave		1.2073				4.0		15.0			
2,4,6-Tribromophenol	0.1642 0.1904	0.1783	0.1808	0.1869	0.1932	Ave		0.1823				5.8		15.0			
Terphenyl-d14	0.8381 0.8046	0.8397	0.8430	0.8335	0.8338	Ave		0.8321				1.7		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34464/2	C15332.D
Level 2	IC 220-34464/3	C15333.D
Level 3	IC 220-34464/5	C15334.D
Level 4	ICIS 220-34464/1	C15331.D
Level 5	IC 220-34464/6	C15335.D
Level 6	IC 220-34464/7	C15336.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
N-Nitrosodimethylamine	DCB	Ave	11142 232203	31830	55735	103797	175160	4.00 80.0	10.0	20.0	40.0	60.0
Pyridine	DCB	Ave	12830 323813	41915	84432	149919	256534	4.00 80.0	10.0	20.0	40.0	60.0
Cyclohexanone	DCB	Ave	33195 504175	94303	175029	324509	454721	4.00 80.0	10.0	20.0	40.0	60.0
Benzaldehyde	DCB	Ave	4029 131928	20468	54903	72627	125710	4.00 80.0	10.0	20.0	40.0	60.0
Aniline	DCB	Ave	117477 2101763	321579	592615	1086137	1685172	4.00 80.0	10.0	20.0	40.0	60.0
Phenol	DCB	Ave	105433 1937724	292176	537202	977650	1563901	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-chloroethyl)ether	DCB	Ave	55457 1010541	153439	284112	513879	830758	4.00 80.0	10.0	20.0	40.0	60.0
2-Chlorophenol	DCB	Ave	77253 1503533	213886	403527	749593	1207191	4.00 80.0	10.0	20.0	40.0	60.0
1,3-Dichlorobenzene	DCB	Ave	85541 1672119	244664	456505	822725	1344806	4.00 80.0	10.0	20.0	40.0	60.0
1,4-Dichlorobenzene	DCB	Ave	89054 1693068	244609	459118	843799	1380367	4.00 80.0	10.0	20.0	40.0	60.0
Benzyl alcohol	DCB	Ave	53518 946484	151057	283471	498095	786877	4.00 80.0	10.0	20.0	40.0	60.0
1,2-Dichlorobenzene	DCB	Ave	87299 1554406	241621	447177	798081	1277442	4.00 80.0	10.0	20.0	40.0	60.0
2-Methylphenol	DCB	Ave	75217 1426342	212820	394148	727268	1139799	4.00 80.0	10.0	20.0	40.0	60.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	103393 1871557	287117	536008	975409	1510870	4.00 80.0	10.0	20.0	40.0	60.0
Acetophenone	DCB	Ave	118340 2189361	326436	601789	1103527	1777041	4.00 80.0	10.0	20.0	40.0	60.0
N-Nitrosodi-n-propylamine	DCB	Ave	63962 1155184	180629	334975	593872	937616	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methylphenol	DCB	Ave	80976 1477139	225990	425209	764251	1203737	4.00 80.0	10.0	20.0	40.0	60.0
Hexachloroethane	DCB	Ave	35044 686720	97673	184568	348338	554871	4.00 80.0	10.0	20.0	40.0	60.0
Nitrobenzene	NPT	Ave	90374 1789492	257271	489129	903330	1440101	4.00 80.0	10.0	20.0	40.0	60.0
Isophorone	NPT	Ave	174141 3327683	497510	910015	1659986	2674275	4.00 80.0	10.0	20.0	40.0	60.0
2-Nitrophenol	NPT	Ave	35927 917194	113450	224857	438260	725058	4.00 80.0	10.0	20.0	40.0	60.0
2,4-Dimethylphenol	NPT	Ave	76673 1473490	214451	401952	746640	1186534	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-chloroethoxy)methane	NPT	Ave	104204 1956425	297611	548503	999733	1588707	4.00 80.0	10.0	20.0	40.0	60.0
Benzoic acid	NPT	Lin	72590 1008746	311581	350799	460806	759200	10.0 80.0	25.0	30.0	40.0	60.0
2,4-Dichlorophenol	NPT	Ave	75023 1461519	211618	397313	722277	1170010	4.00 80.0	10.0	20.0	40.0	60.0
1,2,4-Trichlorobenzene	NPT	Ave	81704 1572707	232299	426682	767663	1253040	4.00 80.0	10.0	20.0	40.0	60.0
Naphthalene	NPT	Ave	286693 4976026	788490	1452243	2586718	4087311	4.00 80.0	10.0	20.0	40.0	60.0
4-Chloroaniline	NPT	Ave	112067 2079217	324841	601252	1093286	1706191	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorobutadiene	NPT	Ave	48953 995409	141456	266982	476731	793818	4.00 80.0	10.0	20.0	40.0	60.0
Caprolactam	NPT	Ave	29752 638372	86879	160818	301547	497183	4.00 80.0	10.0	20.0	40.0	60.0
4-Chloro-3-methylphenol	NPT	Ave	82887 1700318	248490	462624	837996	1371147	4.00 80.0	10.0	20.0	40.0	60.0
2,4,5-Trichlorotoluene	DCB	Ave	77074 1477088	223940	410376	727298	1189505	4.00 80.0	10.0	20.0	40.0	60.0
2-Methylnaphthalene	NPT	Ave	192967 3398012	548835	999814	1758937	2762892	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorocyclopentadiene	ANT	Ave	46756 1178975	144019	275510	570687	926952	4.00 80.0	10.0	20.0	40.0	60.0
2,4,6-Trichlorophenol	ANT	Ave	55952 1181475	167400	320767	576744	950799	4.00 80.0	10.0	20.0	40.0	60.0
2,4,5-Trichlorophenol	ANT	Ave	157640 1272994	439442	512433	619252	1040674	10.0 80.0	25.0	30.0	40.0	60.0
1,1'-Biphenyl	ANT	Ave	246183 4073866	682242	1219383	2162725	3395675	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Chloronaphthalene	ANT	Ave	201298 3415950	552679	999318	1757986	2797915	4.00 80.0	10.0	20.0	40.0	60.0
2-Nitroaniline	ANT	Ave	52547 1208048	165159	313409	585743	965481	4.00 80.0	10.0	20.0	40.0	60.0
Dimethyl phthalate	ANT	Ave	236276 4278146	663284	1199780	2157838	3435213	4.00 80.0	10.0	20.0	40.0	60.0
2,6-Dinitrotoluene	ANT	Ave	40514 1021553	136793	258427	484436	804363	4.00 80.0	10.0	20.0	40.0	60.0
Acenaphthylene	ANT	Ave	348157 5729613	928094	1703184	2988391	4733979	4.00 80.0	10.0	20.0	40.0	60.0
3-Nitroaniline	ANT	Ave	52244 1180923	168281	310465	567041	949048	4.00 80.0	10.0	20.0	40.0	60.0
Acenaphthene	ANT	Ave	207633 3479314	567760	1042312	1831504	2852584	4.00 80.0	10.0	20.0	40.0	60.0
2,4-Dinitrophenol	ANT	Lin	+++++ 514415	128649	141056	205176	376765	+++++ 80.0	25.0	30.0	40.0	60.0
4-Nitrophenol	ANT	Ave	71709 634539	217679	241505	300693	503118	10.0 80.0	25.0	30.0	40.0	60.0
2,4-Dinitrotoluene	ANT	Ave	65468 1328988	199431	369702	685992	1074560	4.00 80.0	10.0	20.0	40.0	60.0
Dibenzofuran	ANT	Ave	306513 5046821	861715	1546747	2663517	4121867	4.00 80.0	10.0	20.0	40.0	60.0
Diethyl phthalate	ANT	Lin	503424 4547425	974755	1468165	2417341	3703130	4.00 80.0	10.0	20.0	40.0	60.0
Fluorene	ANT	Ave	254879 4112090	710446	1250126	2154827	3391207	4.00 80.0	10.0	20.0	40.0	60.0
4-Chlorophenyl phenyl ether	ANT	Ave	115914 1995439	333359	577890	1025885	1611977	4.00 80.0	10.0	20.0	40.0	60.0
4-Nitroaniline	ANT	Ave	60686 1270275	186248	332260	623631	1015091	4.00 80.0	10.0	20.0	40.0	60.0
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 810292	249729	267434	348545	611777	+++++ 80.0	25.0	30.0	40.0	60.0
N-Nitrosodiphenylamine	PHN	Ave	181146 3305017	526483	958471	1677446	2677691	4.00 80.0	10.0	20.0	40.0	60.0
1,2-Diphenylhydrazine	PHN	Ave	270949 4635297	758909	1367771	2456749	3809549	4.00 80.0	10.0	20.0	40.0	60.0
4-Bromophenyl phenyl ether	PHN	Ave	67976 1256020	190332	348111	600271	999118	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorobenzene	PHN	Ave	70691 1350240	209184	371333	651300	1090449	4.00 80.0	10.0	20.0	40.0	60.0
Simazine	PHN	Ave	35389 712144	101490	188258	337645	573226	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Atrazine	PHN	Ave	68613 1317649	204751	364569	650803	1053181	4.00 80.0	10.0	20.0	40.0	60.0
Pentachlorophenol	PHN	Ave	99956 902544	301021	321382	396010	692235	10.0 80.0	25.0	30.0	40.0	60.0
Benzidine	CRY	Ave	8952 194226	27795	49508	88846	150464	4.00 80.0	10.0	20.0	40.0	60.0
Phenanthrene	PHN	Ave	379610 6279395	1057105	1882616	3304109	5182487	4.00 80.0	10.0	20.0	40.0	60.0
Anthracene	PHN	Ave	410276 6469831	1089150	1945117	3390128	5328476	4.00 80.0	10.0	20.0	40.0	60.0
Carbazole	PHN	Ave	372683 6321179	1052862	1881964	3279553	5145515	4.00 80.0	10.0	20.0	40.0	60.0
Di-n-butyl phthalate	PHN	Ave	442772 7621525	1263055	2251549	3998656	6288970	4.00 80.0	10.0	20.0	40.0	60.0
Fluoranthene	PHN	Ave	425479 7379682	1222499	2185241	3820528	5973338	4.00 80.0	10.0	20.0	40.0	60.0
Pyrene	CRY	Ave	439451 7565013	1278602	2260517	3943263	6178871	4.00 80.0	10.0	20.0	40.0	60.0
3,3'-Dimethylbenzidine	CRY	Ave	58682 1770675	199357	441360	811375	1435298	4.00 80.0	10.0	20.0	40.0	60.0
Butyl benzyl phthalate	CRY	Ave	187767 3720684	569630	1020614	1891190	2994212	4.00 80.0	10.0	20.0	40.0	60.0
3,3'-Dichlorobenzidine	CRY	Ave	121072 2505428	351831	646834	1166047	1979511	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[a]anthracene	CRY	Ave	407985 7551345	1183072	2084131	3752437	6012059	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	273099 4843175	801492	1405750	2548024	3918553	4.00 80.0	10.0	20.0	40.0	60.0
Chrysene	CRY	Ave	411944 6930201	1179579	2080280	3553236	5587650	4.00 80.0	10.0	20.0	40.0	60.0
Di-n-octyl phthalate	PRY	Ave	336224 8821011	1162722	2131993	4192273	6903995	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[b]fluoranthene	PRY	Ave	365241 7220651	1036107	1900508	3503964	5511931	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[k]fluoranthene	PRY	Ave	390069 7591482	1167078	2125625	3674864	6197600	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[a]pyrene	PRY	Ave	304836 6130964	880629	1636586	2956514	4816944	4.00 80.0	10.0	20.0	40.0	60.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	296155 4690126	785080	1565279	2608479	3917043	4.00 80.0	10.0	20.0	40.0	60.0
Dibenz(a,h)anthracene	PRY	Ave	290288 5232331	798113	1703603	2819389	4297733	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34464

SDG No.:

Instrument ID: MSC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2009 14:30 Calibration End Date: 12/18/2009 17:02 Calibration ID: 6066

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[g,h,i]perylene	PRY	Ave	363664 4682210	935495	1765248	2601556	3819115	4.00 80.0	10.0	20.0	40.0	60.0
2-Fluorophenol	DCB	Ave	63504 1291011	176255	333353	625701	1035704	4.00 80.0	10.0	20.0	40.0	60.0
Phenol-d5	DCB	Ave	91686 1731155	258896	481088	868312	1367845	4.00 80.0	10.0	20.0	40.0	60.0
Nitrobenzene-d5	NPT	Ave	88906 1858759	258014	486454	913730	1452494	4.00 80.0	10.0	20.0	40.0	60.0
2-Fluorobiphenyl	ANT	Ave	227279 3965971	635968	1161769	2045516	3258229	4.00 80.0	10.0	20.0	40.0	60.0
2,4,6-Tribromophenol	ANT	Ave	75692 672154	227373	255800	309780	535538	10.0 80.0	25.0	30.0	40.0	60.0
Terphenyl-d14	CRY	Ave	308043 5374904	887575	1577738	2697614	4343720	4.00 80.0	10.0	20.0	40.0	60.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915328.b\C15331.D
Lab Smp Id: ICIS-398055 Client Smp ID: ICIS-398055
Inj Date : 18-DEC-2009 14:30
Operator : S.Jonas Inst ID: msc.i
Smp Info : ICIS-398055
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915328.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:34 msc.i Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.063	5.063	(1.000)	247653	20.0000	
$ 2	2-Fluorophenol	112	3.585	3.585	(0.708)	625701	40.0000	40
$ 3	Phenol-d5	99	4.707	4.707	(0.930)	868312	40.0000	39
4	Pyridine	52	1.703	1.703	(0.337)	149919	40.0000	40
5	N-Nitrosodimethylamine	42	1.686	1.686	(0.333)	103797	40.0000	38
6	Cyclohexanone	42	3.822	3.822	(0.755)	324509	40.0000	42
128	Benzaldehyde	77	4.576	4.576	(0.904)	72627	40.0000	41
7	Phenol	94	4.718	4.718	(0.932)	977650	40.0000	39
8	Aniline	93	4.707	4.707	(0.930)	1086137	40.0000	40
9	bis(2-Chloroethyl)ether	63	4.802	4.802	(0.948)	513879	40.0000	39
10	2-Chlorophenol	128	4.831	4.831	(0.954)	749593	40.0000	40
11	1,3-Dichlorobenzene	146	4.997	4.997	(0.987)	822725	40.0000	39
12	1,4-Dichlorobenzene	146	5.081	5.081	(1.004)	843799	40.0000	39
13	Benzyl alcohol	108	5.235	5.235	(1.034)	498095	40.0000	39
14	1,2-Dichlorobenzene	146	5.247	5.247	(1.036)	798081	40.0000	39
15	2,2'-oxybis(1-Chloropropane)	45	5.389	5.389	(1.064)	975409	40.0000	40
16	2-Methylphenol	108	5.377	5.377	(1.062)	727268	40.0000	40
92	Acetophenone	105	5.514	5.514	(1.089)	1103527	40.0000	39
17	Hexachloroethane	117	5.609	5.609	(1.108)	348338	40.0000	41
18	N-Nitroso-di-n-propylamine	70	5.532	5.532	(1.093)	593872	40.0000	39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	
19	4-Methylphenol	108	5.543	5.543	(1.095)	764251	40.0000	40	
* 20	Naphthalene-d8	136	6.440	6.440	(1.000)	1184218	20.0000		
$ 21	Nitrobenzene-d5	82	5.668	5.668	(0.880)	913730	40.0000	42	
22	Nitrobenzene	77	5.686	5.686	(0.883)	903330	40.0000	41	
23	Isophorone	82	5.953	5.953	(0.924)	1659986	40.0000	41	
24	2-Nitrophenol	139	6.036	6.036	(0.937)	438260	40.0000	43	
25	2,4-Dimethylphenol	122	6.107	6.107	(0.948)	746640	40.0000	41	
26	Benzoic Acid	122	6.232	6.232	(0.968)	460806	40.0000	41	
27	Bis(2-Chloroethoxy)methane	93	6.208	6.208	(0.964)	999733	40.0000	41	
28	2,4-Dichlorophenol	162	6.297	6.297	(0.978)	722277	40.0000	41	
29	1,2,4-Trichlorobenzene	180	6.386	6.386	(0.992)	767663	40.0000	40	
30	Naphthalene	128	6.463	6.463	(1.004)	2586718	40.0000	40	
31	4-Chloroaniline	127	6.529	6.529	(1.014)	1093286	40.0000	41	
32	Hexachlorobutadiene	225	6.618	6.618	(1.028)	476731	40.0000	40	
129	Caprolactam	113	6.915	6.915	(1.074)	301547	40.0000	41	
33	4-Chloro-3-methylphenol	107	7.069	7.069	(1.098)	837996	40.0000	41	
34	2-Methylnaphthalene	142	7.205	7.205	(1.119)	1758937	40.0000	40	
* 35	Acenaphthene-d10	164	8.321	8.321	(1.000)	828621	20.0000		
36	2,4,5-Trichlorotoluene	159	7.170	7.170	(1.416)	727298	40.0000	39	
37	Hexachlorocyclopentadiene	237	7.389	7.389	(0.888)	570687	40.0000	45	
38	2,4,6-Trichlorophenol	196	7.520	7.520	(0.904)	576744	40.0000	42	
39	2,4,5-Trichlorophenol	196	7.556	7.556	(0.908)	619252	40.0000	42	
$ 40	2-Fluorobiphenyl	172	7.609	7.609	(0.914)	2045516	40.0000	41	
130	1,1'-Biphenyl	154	7.716	7.716	(0.927)	2162725	40.0000	41	
41	2-Chloronaphthalene	162	7.728	7.728	(0.929)	1757986	40.0000	41	
42	2-Nitroaniline	65	7.840	7.840	(0.942)	585743	40.0000	43	
43	Acenaphthylene	152	8.167	8.167	(0.981)	2988391	40.0000	41	
44	Dimethylphthalate	163	8.054	8.054	(0.968)	2157838	40.0000	41	
45	2,6-Dinitrotoluene	165	8.108	8.108	(0.974)	484436	40.0000	43	
46	Acenaphthene	153	8.357	8.357	(1.004)	1831504	40.0000	41	
47	3-Nitroaniline	138	8.280	8.280	(0.995)	567041	40.0000	42	
48	2,4-Dinitrophenol	184	8.386	8.386	(1.008)	205176	40.0000	40	
49	Dibenzofuran	168	8.541	8.541	(1.026)	2663517	40.0000	41	
50	2,4-Dinitrotoluene	165	8.529	8.529	(1.025)	685992	40.0000	43	
51	4-Nitrophenol	109	8.470	8.470	(1.018)	300693	40.0000	42	
52	Fluorene	166	8.909	8.909	(1.071)	2154827	40.0000	40	
53	4-Chlorophenyl-phenylether	204	8.915	8.915	(1.071)	1025885	40.0000	41	
54	Diethylphthalate	149	8.808	8.808	(1.058)	2417341	40.0000	42	
55	4-Nitroaniline	138	8.933	8.933	(1.073)	623631	40.0000	42	
$ 56	2,4,6-Tribromophenol	330	9.164	9.164	(1.101)	309780	40.0000	41	
* 57	Phenanthrene-d10	188	9.906	9.906	(1.000)	1440211	20.0000		
58	4,6-Dinitro-2-methylphenol	198	8.968	8.968	(0.905)	348545	40.0000	40	
59	N-Nitrosodiphenylamine (1)	169	9.039	9.039	(0.913)	1677446	40.0000	41	
60	1,2-Diphenylhydrazine	77	9.081	9.081	(0.917)	2456749	40.0000	41	
61	4-Bromophenyl-phenylether	248	9.431	9.431	(0.952)	600271	40.0000	40	
131	Atrazine	200	9.621	9.621	(0.971)	650803	40.0000	41	
62	Hexachlorobenzene	284	9.502	9.502	(0.959)	651300	40.0000	40	
63	Pentachlorophenol	266	9.710	9.710	(0.980)	396010	40.0000	40	
64	Phenanthrene	178	9.930	9.930	(1.002)	3304109	40.0000	41	
65	Carbazole	167	10.155	10.155	(1.025)	3279553	40.0000	41	
66	Anthracene	178	9.983	9.983	(1.008)	3390128	40.0000	40	
67	Di-n-butylphthalate	149	10.547	10.547	(1.065)	3998656	40.0000	41	
68	Fluoranthene	202	11.200	11.200	(1.131)	3820528	40.0000	41	
* 70	Chrysene-d12	240	12.879	12.879	(1.000)	1618148	20.0000	(M)	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
71	Benzidine	184	9.793	9.793	(0.760)	88846	40.0000	41
72	Pyrene	202	11.443	11.443	(0.888)	3943263	40.0000	41
$ 73	Terphenyl-d14	244	11.615	11.615	(0.902)	2697614	40.0000	40
74	Butylbenzylphthalate	149	12.167	12.167	(0.945)	1891190	40.0000	42
124	3,3'-Dimethylbenzidine	212	12.144	12.144	(0.943)	811375	40.0000	44
75	3,3'-Dichlorobenzidine	252	12.832	12.832	(0.996)	1166047	40.0000	41
76	Benzo(a)anthracene	228	12.862	12.862	(0.999)	3752437	40.0000	41
77	Chrysene	228	12.915	12.915	(1.003)	3553236	40.0000	40
78	Bis(2-Ethylhexyl)phthalate	149	12.915	12.915	(1.003)	2548024	40.0000	42
* 79	Perylene-d12	264	15.224	15.224	(1.000)	1191449	20.0000	
80	Di-n-octylphthalate	149	13.912	13.912	(0.914)	4192273	40.0000	45
81	Benzo(b)fluoranthene	252	14.541	14.541	(0.955)	3503964	40.0000	43
82	Benzo(k)fluoranthene	252	14.589	14.589	(0.958)	3674864	40.0000	41
83	Benzo(a)pyrene	252	15.123	15.123	(0.993)	2956514	40.0000	42
84	Indeno(1,2,3-cd)pyrene	276	17.367	17.367	(1.141)	2608479	40.0000	42
85	Dibenzo(a,h)anthracene	278	17.426	17.426	(1.145)	2819389	40.0000	43
86	Benzo(g,h,i)perylene	276	17.925	17.925	(1.177)	2601556	40.0000	39
167	Simazine	201	9.591	9.591	(0.968)	337645	40.0000	41

QC Flag Legend

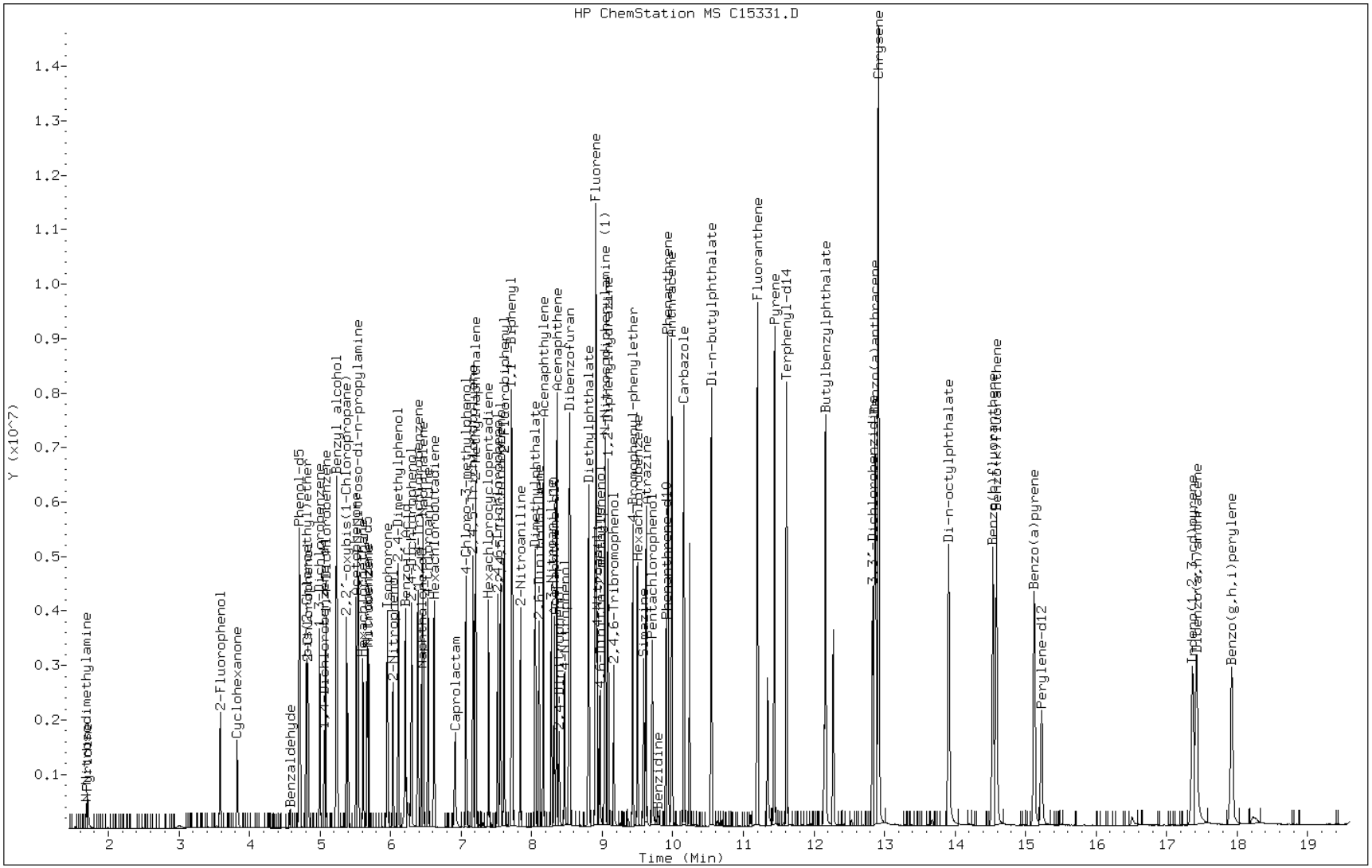
M - Compound response manually integrated.

Data File: C15331.D

Date: 18-DEC-2009 14:30

Client ID: ICIS-398055 Instrument: msc.i

Sample Info: ICIS-398055 Operator: S.Jonas



Manual Integration Report

Data File: C15331.D
Inj. Date and Time: 18-DEC-2009 14:30
Instrument ID: msc.i
Client ID: ICIS-398055
Compound: 70 Chrysene-d12
CAS #: 1719-03-5
Report Date: 12/21/2009

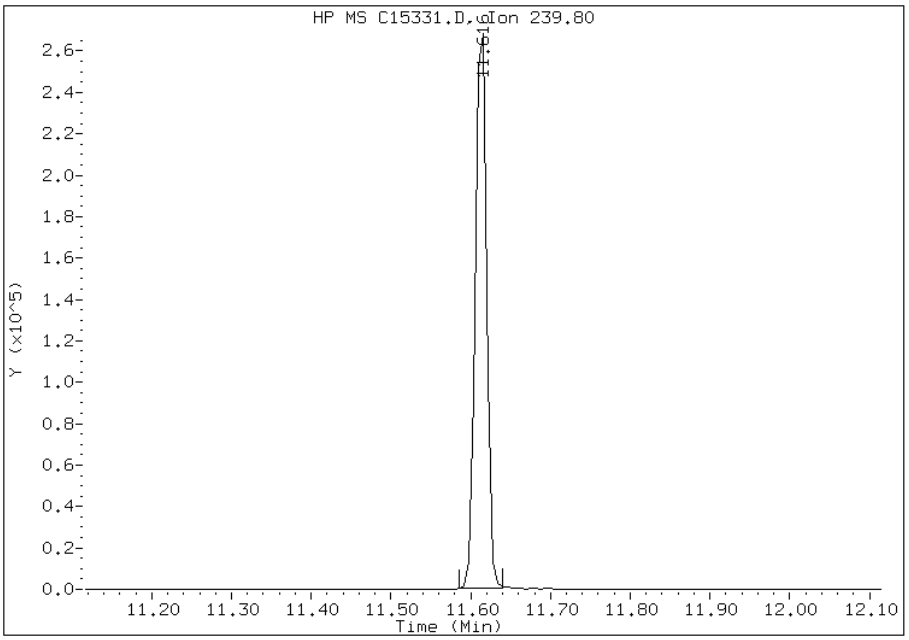
Processing Integration Results

RT: 11.62

Response: 264912

Amount: 20

Conc: 20



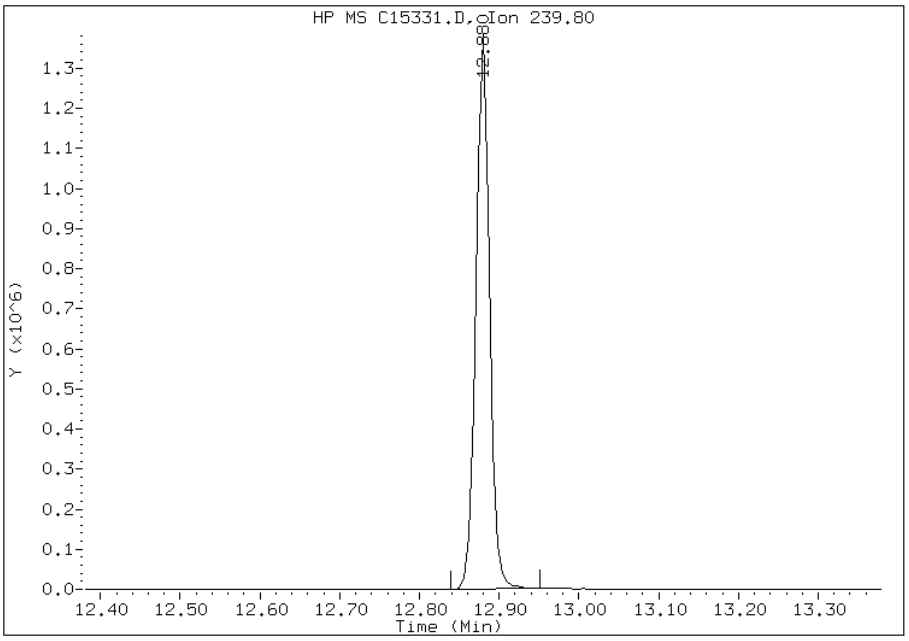
Manual Integration Results

RT: 12.88

Response: 1618148

Amount: 20

Conc: 20



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak identification

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915328.b\C15332.D
Lab Smp Id: IC-395382 Client Smp ID: IC-395382
Inj Date : 18-DEC-2009 15:01
Operator : S.Jonas Inst ID: msc.i
Smp Info : IC-395382;4/10
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915328.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:28 stephan Quant Type: ISTD
Cal Date : 18-DEC-2009 15:01 Cal File: C15332.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.063	5.063	(1.000)	258008	20.0000	
$ 2	2-Fluorophenol	112	3.585	3.585	(0.708)	63504	4.00000	4
$ 3	Phenol-d5	99	4.695	4.695	(0.927)	91686	4.00000	4
4	Pyridine	52	1.727	1.727	(0.341)	12830	4.00000	3
5	N-Nitrosodimethylamine	42	1.692	1.692	(0.334)	11142	4.00000	4
6	Cyclohexanone	42	3.828	3.828	(0.756)	33195	4.00000	4
128	Benzaldehyde	77	4.576	4.576	(0.904)	4029	4.00000	2
7	Phenol	94	4.713	4.713	(0.931)	105433	4.00000	4
8	Aniline	93	4.701	4.701	(0.928)	117477	4.00000	4
9	bis(2-Chloroethyl)ether	63	4.796	4.796	(0.947)	55457	4.00000	4
10	2-Chlorophenol	128	4.826	4.826	(0.953)	77253	4.00000	4
11	1,3-Dichlorobenzene	146	4.998	4.998	(0.987)	85541	4.00000	4
12	1,4-Dichlorobenzene	146	5.081	5.081	(1.004)	89054	4.00000	4
13	Benzyl alcohol	108	5.229	5.229	(1.033)	53518	4.00000	4
14	1,2-Dichlorobenzene	146	5.241	5.241	(1.035)	87299	4.00000	4
15	2,2'-oxybis(1-Chloropropane)	45	5.389	5.389	(1.064)	103393	4.00000	4
16	2-Methylphenol	108	5.366	5.366	(1.060)	75217	4.00000	4
92	Acetophenone	105	5.508	5.508	(1.088)	118340	4.00000	4
17	Hexachloroethane	117	5.609	5.609	(1.108)	35044	4.00000	4
18	N-Nitroso-di-n-propylamine	70	5.526	5.526	(1.091)	63962	4.00000	4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.532	5.532	(1.093)	80976	4.00000	4
*	20 Naphthalene-d8	136	6.434	6.434	(1.000)	1283102	20.0000	
$	21 Nitrobenzene-d5	82	5.662	5.662	(0.880)	88906	4.00000	4
	22 Nitrobenzene	77	5.686	5.686	(0.884)	90374	4.00000	4
	23 Isophorone	82	5.947	5.947	(0.924)	174141	4.00000	4
	24 2-Nitrophenol	139	6.030	6.030	(0.937)	35927	4.00000	3
	25 2,4-Dimethylphenol	122	6.102	6.102	(0.948)	76673	4.00000	4
	26 Benzoic Acid	122	6.191	6.191	(0.962)	72590	10.0000	10(H)
	27 Bis(2-Chloroethoxy)methane	93	6.203	6.203	(0.964)	104204	4.00000	4
	28 2,4-Dichlorophenol	162	6.292	6.292	(0.978)	75023	4.00000	4
	29 1,2,4-Trichlorobenzene	180	6.381	6.381	(0.992)	81704	4.00000	4
	30 Naphthalene	128	6.458	6.458	(1.004)	286693	4.00000	4
	31 4-Chloroaniline	127	6.529	6.529	(1.015)	112067	4.00000	4
	32 Hexachlorobutadiene	225	6.618	6.618	(1.029)	48953	4.00000	4
	129 Caprolactam	113	6.867	6.867	(1.067)	29752	4.00000	4
	33 4-Chloro-3-methylphenol	107	7.063	7.063	(1.098)	82887	4.00000	4
	34 2-Methylnaphthalene	142	7.206	7.206	(1.120)	192967	4.00000	4
*	35 Acenaphthene-d10	164	8.315	8.315	(1.000)	921980	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.164	7.164	(1.415)	77074	4.00000	4
	37 Hexachlorocyclopentadiene	237	7.390	7.390	(0.889)	46756	4.00000	3
	38 2,4,6-Trichlorophenol	196	7.514	7.514	(0.904)	55952	4.00000	4
	39 2,4,5-Trichlorophenol	196	7.550	7.550	(0.908)	157640	10.0000	10
$	40 2-Fluorobiphenyl	172	7.609	7.609	(0.915)	227279	4.00000	4
	130 1,1'-Biphenyl	154	7.710	7.710	(0.927)	246183	4.00000	4
	41 2-Chloronaphthalene	162	7.722	7.722	(0.929)	201298	4.00000	4
	42 2-Nitroaniline	65	7.835	7.835	(0.942)	52547	4.00000	3
	43 Acenaphthylene	152	8.161	8.161	(0.981)	348157	4.00000	4
	44 Dimethylphthalate	163	8.042	8.042	(0.967)	236276	4.00000	4
	45 2,6-Dinitrotoluene	165	8.102	8.102	(0.974)	40514	4.00000	3
	46 Acenaphthene	153	8.351	8.351	(1.004)	207633	4.00000	4
	47 3-Nitroaniline	138	8.274	8.274	(0.995)	52244	4.00000	3
	48 2,4-Dinitrophenol	184	8.387	8.387	(1.009)	30907	10.0000	15
	49 Dibenzofuran	168	8.535	8.535	(1.026)	306513	4.00000	4
	50 2,4-Dinitrotoluene	165	8.523	8.523	(1.025)	65468	4.00000	4
	51 4-Nitrophenol	109	8.458	8.458	(1.017)	71709	10.0000	9
	52 Fluorene	166	8.903	8.903	(1.071)	254879	4.00000	4
	53 4-Chlorophenyl-phenylether	204	8.909	8.909	(1.071)	115914	4.00000	4
	54 Diethylphthalate	149	8.802	8.802	(1.059)	503424	4.00000	3
	55 4-Nitroaniline	138	8.921	8.921	(1.073)	60686	4.00000	4
$	56 2,4,6-Tribromophenol	330	9.158	9.158	(1.101)	75692	10.0000	9
*	57 Phenanthrene-d10	188	9.900	9.900	(1.000)	1601010	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.957	8.957	(0.905)	64592	10.0000	7
	59 N-Nitrosodiphenylamine (1)	169	9.034	9.034	(0.912)	181146	4.00000	4
	60 1,2-Diphenylhydrazine	77	9.075	9.075	(0.917)	270949	4.00000	4
	61 4-Bromophenyl-phenylether	248	9.431	9.431	(0.953)	67976	4.00000	4
	131 Atrazine	200	9.609	9.609	(0.971)	68613	4.00000	4
	62 Hexachlorobenzene	284	9.497	9.497	(0.959)	70691	4.00000	4
	63 Pentachlorophenol	266	9.704	9.704	(0.980)	99956	10.0000	9
	64 Phenanthrene	178	9.924	9.924	(1.002)	379610	4.00000	4
	65 Carbazole	167	10.149	10.149	(1.025)	372683	4.00000	4
	66 Anthracene	178	9.977	9.977	(1.008)	410276	4.00000	4
	67 Di-n-butylphthalate	149	10.541	10.541	(1.065)	442772	4.00000	4
	68 Fluoranthene	202	11.194	11.194	(1.131)	425479	4.00000	4
*	70 Chrysene-d12	240	12.874	12.874	(1.000)	1837701	20.0000	(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
72	Pyrene	202	11.437	11.437	(0.888)	439451	4.00000	2
$ 73	Terphenyl-d14	244	11.610	11.610	(0.902)	308043	4.00000	2
74	Butylbenzylphthalate	149	12.162	12.162	(0.945)	187767	4.00000	2
75	3,3'-Dichlorobenzidine	252	12.826	12.826	(0.996)	121072	4.00000	2
76	Benzo(a)anthracene	228	12.856	12.856	(0.999)	407985	4.00000	2
77	Chrysene	228	12.909	12.909	(1.003)	411944	4.00000	2
78	Bis(2-Ethylhexyl)phthalate	149	12.915	12.915	(1.003)	273099	4.00000	2
* 79	Perylene-d12	264	15.224	15.224	(1.000)	1389447	20.0000	
80	Di-n-octylphthalate	149	13.907	13.907	(0.913)	336224	4.00000	3
81	Benzo(b)fluoranthene	252	14.530	14.530	(0.954)	365241	4.00000	4
82	Benzo(k)fluoranthene	252	14.571	14.571	(0.957)	390069	4.00000	4
83	Benzo(a)pyrene	252	15.111	15.111	(0.993)	304836	4.00000	4
84	Indeno(1,2,3-cd)pyrene	276	17.349	17.349	(1.140)	296155	4.00000	4
85	Dibenzo(a,h)anthracene	278	17.408	17.408	(1.143)	290288	4.00000	4
86	Benzo(g,h,i)perylene	276	17.901	17.901	(1.176)	363664	4.00000	5
167	Simazine	201	9.574	9.574	(0.967)	35389	4.00000	4

QC Flag Legend

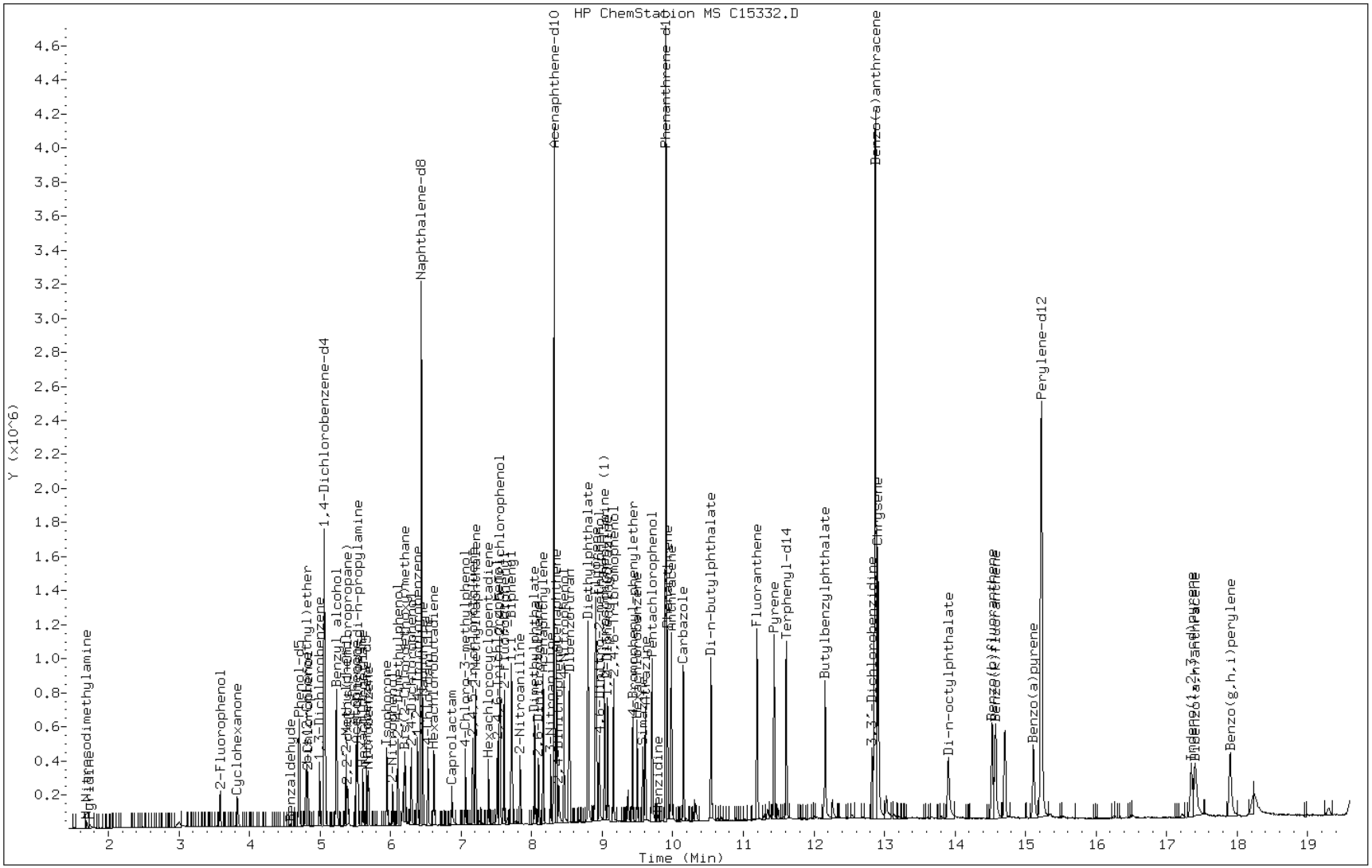
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: C15332.D

Date: 18-DEC-2009 15:01

Client ID: IC-395382 Instrument: msc.i

Sample Info: IC-395382;4/10 Operator: S.Jonas



Manual Integration Report

Data File: C15332.D
Inj. Date and Time: 18-DEC-2009 15:01
Instrument ID: msc.i
Client ID: IC-395382
Compound: 70 Chrysene-d12
CAS #: 1719-03-5
Report Date: 12/21/2009

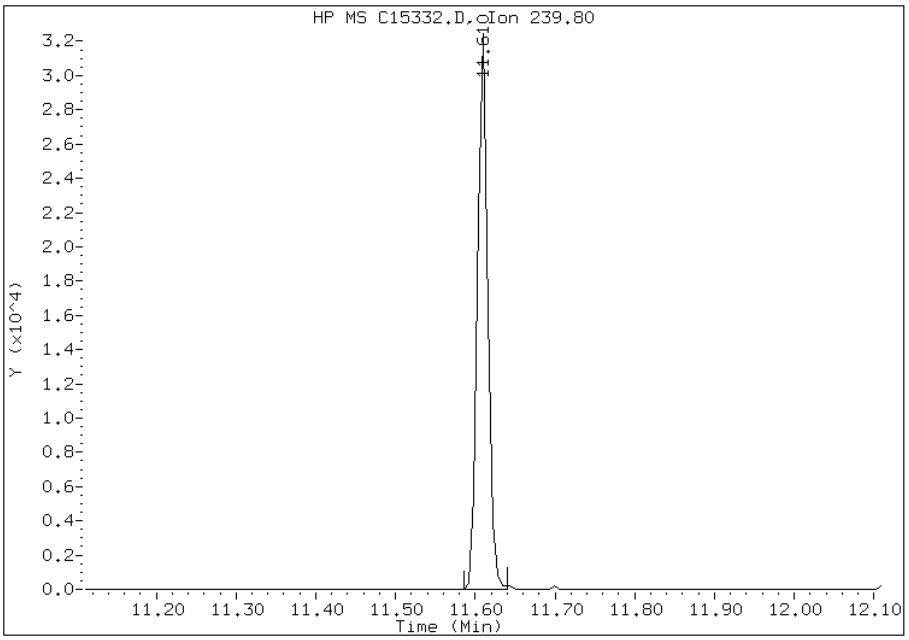
Processing Integration Results

RT: 11.61

Response: 28956

Amount: 20

Conc: 20



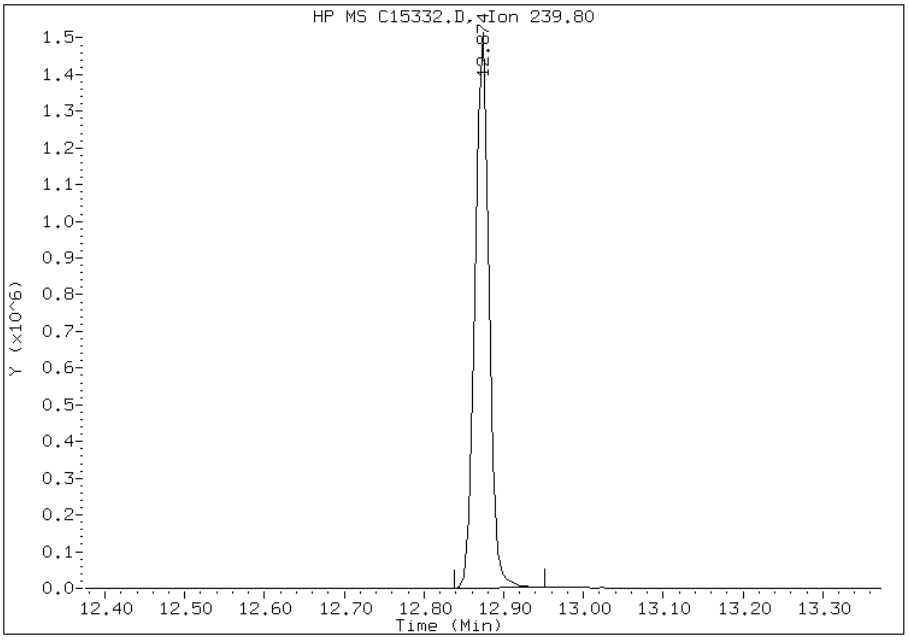
Manual Integration Results

RT: 12.87

Response: 1837701

Amount: 20

Conc: 20



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak identification

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915328.b\C15333.D
Lab Smp Id: IC-395383 Client Smp ID: IC-395383
Inj Date : 18-DEC-2009 15:31
Operator : S.Jonas Inst ID: msc.i
Smp Info : IC-395383;10/25
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915328.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:28 stephan Quant Type: ISTD
Cal Date : 18-DEC-2009 15:31 Cal File: C15333.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.063	5.063	(1.000)	281424	20.0000	
$ 2	2-Fluorophenol	112	3.585	3.585	(0.708)	176255	10.0000	10
$ 3	Phenol-d5	99	4.701	4.701	(0.928)	258896	10.0000	10
4	Pyridine	52	1.715	1.715	(0.339)	41915	10.0000	10
5	N-Nitrosodimethylamine	42	1.692	1.692	(0.334)	31830	10.0000	10
6	Cyclohexanone	42	3.828	3.828	(0.756)	94303	10.0000	11
128	Benzaldehyde	77	4.576	4.576	(0.904)	20468	10.0000	10
7	Phenol	94	4.713	4.713	(0.931)	292176	10.0000	10
8	Aniline	93	4.701	4.701	(0.928)	321579	10.0000	10
9	bis(2-Chloroethyl)ether	63	4.796	4.796	(0.947)	153439	10.0000	10
10	2-Chlorophenol	128	4.831	4.831	(0.954)	213886	10.0000	10
11	1,3-Dichlorobenzene	146	4.998	4.998	(0.987)	244664	10.0000	10
12	1,4-Dichlorobenzene	146	5.081	5.081	(1.004)	244609	10.0000	10
13	Benzyl alcohol	108	5.229	5.229	(1.033)	151057	10.0000	11
14	1,2-Dichlorobenzene	146	5.241	5.241	(1.035)	241621	10.0000	10
15	2,2'-oxybis(1-Chloropropane)	45	5.389	5.389	(1.064)	287117	10.0000	10
16	2-Methylphenol	108	5.371	5.371	(1.061)	212820	10.0000	10
92	Acetophenone	105	5.508	5.508	(1.088)	326436	10.0000	10
17	Hexachloroethane	117	5.609	5.609	(1.108)	97673	10.0000	10
18	N-Nitroso-di-n-propylamine	70	5.526	5.526	(1.091)	180629	10.0000	11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.538	5.538	(1.094)	225990	10.0000	10
*	20 Naphthalene-d8	136	6.434	6.434	(1.000)	1401440	20.0000	
$	21 Nitrobenzene-d5	82	5.662	5.662	(0.880)	258014	10.0000	10
	22 Nitrobenzene	77	5.686	5.686	(0.884)	257271	10.0000	10
	23 Isophorone	82	5.947	5.947	(0.924)	497510	10.0000	10
	24 2-Nitrophenol	139	6.030	6.030	(0.937)	113450	10.0000	9
	25 2,4-Dimethylphenol	122	6.107	6.107	(0.949)	214451	10.0000	10
	26 Benzoic Acid	122	6.226	6.226	(0.968)	311581	25.0000	25
	27 Bis(2-Chloroethoxy)methane	93	6.202	6.202	(0.964)	297611	10.0000	10
	28 2,4-Dichlorophenol	162	6.291	6.291	(0.978)	211618	10.0000	10
	29 1,2,4-Trichlorobenzene	180	6.380	6.380	(0.992)	232299	10.0000	10
	30 Naphthalene	128	6.458	6.458	(1.004)	788490	10.0000	10
	31 4-Chloroaniline	127	6.529	6.529	(1.015)	324841	10.0000	10
	32 Hexachlorobutadiene	225	6.618	6.618	(1.029)	141456	10.0000	10
	129 Caprolactam	113	6.891	6.891	(1.071)	86879	10.0000	10
	33 4-Chloro-3-methylphenol	107	7.063	7.063	(1.098)	248490	10.0000	10
	34 2-Methylnaphthalene	142	7.205	7.205	(1.120)	548835	10.0000	11
*	35 Acenaphthene-d10	164	8.321	8.321	(1.000)	1020190	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.170	7.170	(1.416)	223940	10.0000	10
	37 Hexachlorocyclopentadiene	237	7.389	7.389	(0.888)	144019	10.0000	9
	38 2,4,6-Trichlorophenol	196	7.514	7.514	(0.903)	167400	10.0000	10
	39 2,4,5-Trichlorophenol	196	7.550	7.550	(0.907)	439442	25.0000	24
$	40 2-Fluorobiphenyl	172	7.609	7.609	(0.914)	635968	10.0000	10
	130 1,1'-Biphenyl	154	7.710	7.710	(0.927)	682242	10.0000	10
	41 2-Chloronaphthalene	162	7.722	7.722	(0.928)	552679	10.0000	10
	42 2-Nitroaniline	65	7.835	7.835	(0.942)	165159	10.0000	10
	43 Acenaphthylene	152	8.161	8.161	(0.981)	928094	10.0000	10
	44 Dimethylphthalate	163	8.048	8.048	(0.967)	663284	10.0000	10
	45 2,6-Dinitrotoluene	165	8.102	8.102	(0.974)	136793	10.0000	10
	46 Acenaphthene	153	8.351	8.351	(1.004)	567760	10.0000	10
	47 3-Nitroaniline	138	8.274	8.274	(0.994)	168281	10.0000	10
	48 2,4-Dinitrophenol	184	8.387	8.387	(1.008)	128649	25.0000	26
	49 Dibenzofuran	168	8.541	8.541	(1.026)	861715	10.0000	11
	50 2,4-Dinitrotoluene	165	8.529	8.529	(1.025)	199431	10.0000	10
	51 4-Nitrophenol	109	8.464	8.464	(1.017)	217679	25.0000	25
	52 Fluorene	166	8.903	8.903	(1.070)	710446	10.0000	11
	53 4-Chlorophenyl-phenylether	204	8.909	8.909	(1.071)	333359	10.0000	11
	54 Diethylphthalate	149	8.802	8.802	(1.058)	974755	10.0000	10
	55 4-Nitroaniline	138	8.927	8.927	(1.073)	186248	10.0000	10
$	56 2,4,6-Tribromophenol	330	9.158	9.158	(1.101)	227373	25.0000	24
*	57 Phenanthrene-d10	188	9.900	9.900	(1.000)	1811050	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.962	8.962	(0.905)	249729	25.0000	23
	59 N-Nitrosodiphenylamine (1)	169	9.034	9.034	(0.912)	526483	10.0000	10
	60 1,2-Diphenylhydrazine	77	9.081	9.081	(0.917)	758909	10.0000	10
	61 4-Bromophenyl-phenylether	248	9.431	9.431	(0.953)	190332	10.0000	10
	131 Atrazine	200	9.615	9.615	(0.971)	204751	10.0000	10
	62 Hexachlorobenzene	284	9.497	9.497	(0.959)	209184	10.0000	10
	63 Pentachlorophenol	266	9.704	9.704	(0.980)	301021	25.0000	24
	64 Phenanthrene	178	9.924	9.924	(1.002)	1057105	10.0000	10
	65 Carbazole	167	10.155	10.155	(1.026)	1052862	10.0000	10
	66 Anthracene	178	9.983	9.983	(1.008)	1089150	10.0000	10
	67 Di-n-butylphthalate	149	10.541	10.541	(1.065)	1263055	10.0000	10
	68 Fluoranthene	202	11.194	11.194	(1.131)	1222499	10.0000	10
*	70 Chrysene-d12	240	12.874	12.874	(1.000)	2113969	20.0000	(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
72	Pyrene	202	11.437	11.437	(0.888)	1278602	10.0000	0.8
$ 73	Terphenyl-d14	244	11.609	11.609	(0.902)	887575	10.0000	0.8
74	Butylbenzylphthalate	149	12.161	12.161	(0.945)	569630	10.0000	0.8
75	3,3'-Dichlorobenzidine	252	12.826	12.826	(0.996)	351831	10.0000	0.8
76	Benzo(a)anthracene	228	12.856	12.856	(0.999)	1183072	10.0000	0.8
77	Chrysene	228	12.909	12.909	(1.003)	1179579	10.0000	0.8
78	Bis(2-Ethylhexyl)phthalate	149	12.909	12.909	(1.003)	801492	10.0000	0.8
* 79	Perylene-d12	264	15.224	15.224	(1.000)	1566018	20.0000	
80	Di-n-octylphthalate	149	13.906	13.906	(0.913)	1162722	10.0000	9
81	Benzo(b)fluoranthene	252	14.530	14.530	(0.954)	1036107	10.0000	10
82	Benzo(k)fluoranthene	252	14.577	14.577	(0.958)	1167078	10.0000	10
83	Benzo(a)pyrene	252	15.111	15.111	(0.993)	880629	10.0000	10
84	Indeno(1,2,3-cd)pyrene	276	17.349	17.349	(1.140)	785080	10.0000	10
85	Dibenzo(a,h)anthracene	278	17.408	17.408	(1.143)	798113	10.0000	9
86	Benzo(g,h,i)perylene	276	17.907	17.907	(1.176)	935495	10.0000	11
167	Simazine	201	9.580	9.580	(0.968)	101490	10.0000	10

QC Flag Legend

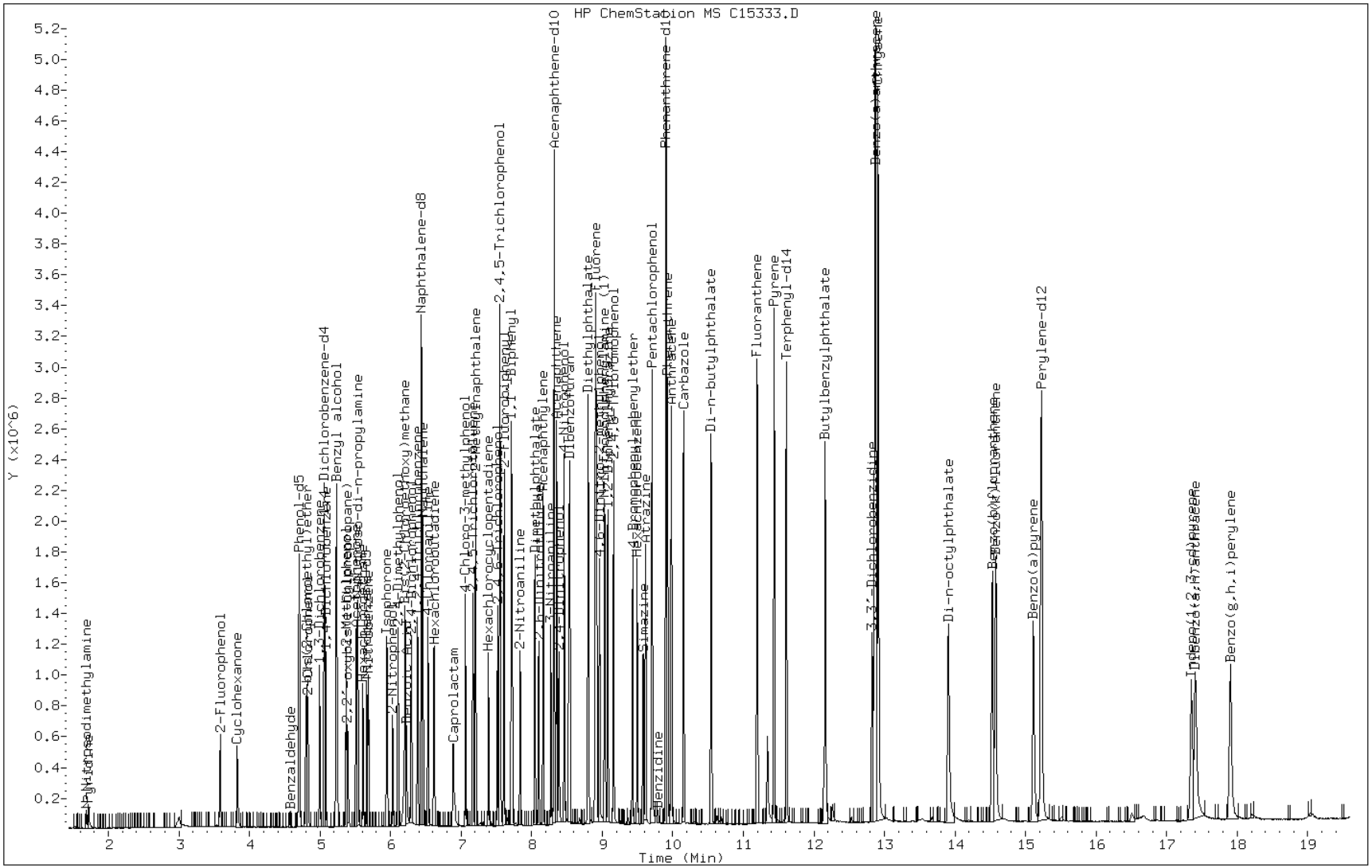
M - Compound response manually integrated.

Data File: C15333.D

Date: 18-DEC-2009 15:31

Client ID: IC-395383 Instrument: msc.i

Sample Info: IC-395383;10/25 Operator: S.Jonas



Manual Integration Report

Data File: C15333.D
Inj. Date and Time: 18-DEC-2009 15:31
Instrument ID: msc.i
Client ID: IC-395383
Compound: 70 Chrysene-d12
CAS #: 1719-03-5
Report Date: 12/21/2009

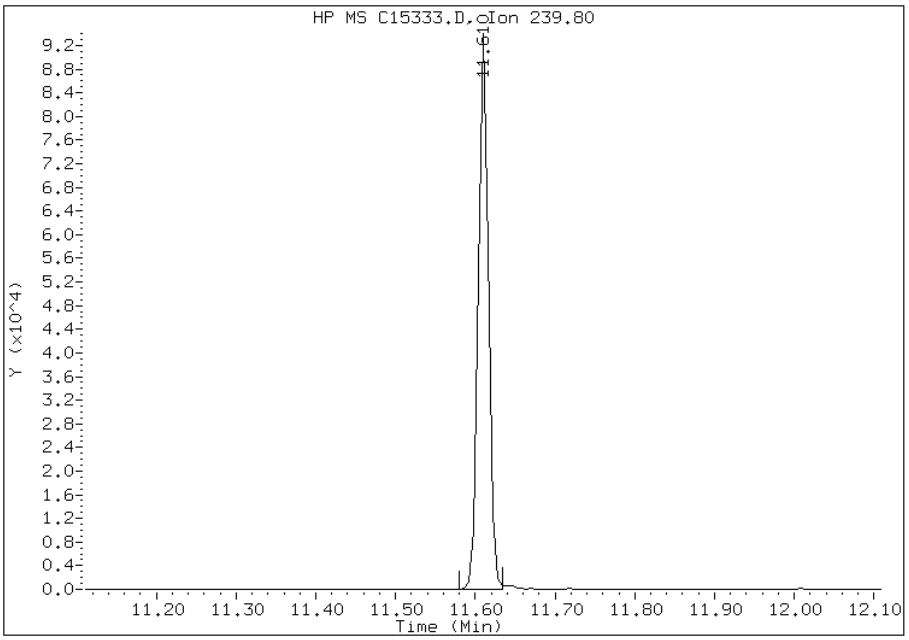
Processing Integration Results

RT: 11.61

Response: 82457

Amount: 20

Conc: 20



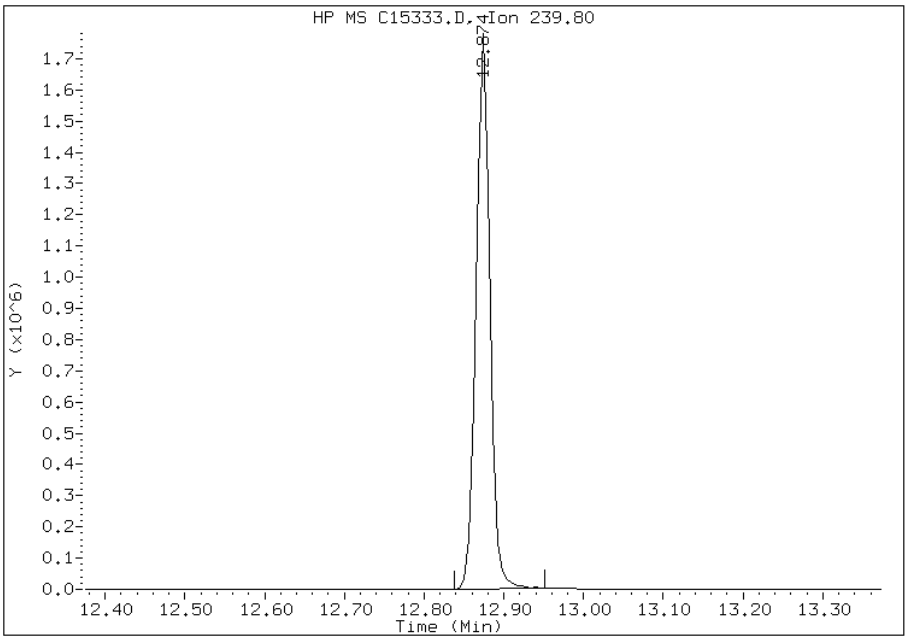
Manual Integration Results

RT: 12.87

Response: 2113969

Amount: 20

Conc: 20



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak identification

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915328.b\C15334.D
Lab Smp Id: IC-395384 Client Smp ID: IC-395384
Inj Date : 18-DEC-2009 16:01
Operator : S.Jonas Inst ID: msc.i
Smp Info : IC-395384;20/30
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915328.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:28 stephan Quant Type: ISTD
Cal Date : 18-DEC-2009 16:01 Cal File: C15334.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.063	5.063	(1.000)	268869	20.0000	
$ 2	2-Fluorophenol	112	3.585	3.585	(0.708)	333353	20.0000	20
$ 3	Phenol-d5	99	4.701	4.701	(0.928)	481088	20.0000	20
4	Pyridine	52	1.703	1.703	(0.337)	84432	20.0000	21
5	N-Nitrosodimethylamine	42	1.686	1.686	(0.333)	55735	20.0000	19
6	Cyclohexanone	42	3.828	3.828	(0.756)	175029	20.0000	21
128	Benzaldehyde	77	4.576	4.576	(0.904)	54903	20.0000	28
7	Phenol	94	4.719	4.719	(0.932)	537202	20.0000	20
8	Aniline	93	4.707	4.707	(0.930)	592615	20.0000	20
9	bis(2-Chloroethyl)ether	63	4.802	4.802	(0.948)	284112	20.0000	20
10	2-Chlorophenol	128	4.831	4.831	(0.954)	403527	20.0000	20
11	1,3-Dichlorobenzene	146	4.998	4.998	(0.987)	456505	20.0000	20
12	1,4-Dichlorobenzene	146	5.081	5.081	(1.004)	459118	20.0000	20
13	Benzyl alcohol	108	5.235	5.235	(1.034)	283471	20.0000	21
14	1,2-Dichlorobenzene	146	5.247	5.247	(1.036)	447177	20.0000	20
15	2,2'-oxybis(1-Chloropropane)	45	5.389	5.389	(1.064)	536008	20.0000	20
16	2-Methylphenol	108	5.371	5.371	(1.061)	394148	20.0000	20
92	Acetophenone	105	5.514	5.514	(1.089)	601789	20.0000	20
17	Hexachloroethane	117	5.609	5.609	(1.108)	184568	20.0000	20
18	N-Nitroso-di-n-propylamine	70	5.532	5.532	(1.093)	334975	20.0000	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.538	5.538	(1.094)	425209	20.0000	20
*	20 Naphthalene-d8	136	6.440	6.440	(1.000)	1323473	20.0000	
$	21 Nitrobenzene-d5	82	5.668	5.668	(0.880)	486454	20.0000	20
	22 Nitrobenzene	77	5.686	5.686	(0.883)	489129	20.0000	20
	23 Isophorone	82	5.953	5.953	(0.924)	910015	20.0000	20
	24 2-Nitrophenol	139	6.036	6.036	(0.937)	224857	20.0000	20
	25 2,4-Dimethylphenol	122	6.107	6.107	(0.948)	401952	20.0000	20
	26 Benzoic Acid	122	6.232	6.232	(0.968)	350799	30.0000	29
	27 Bis(2-Chloroethoxy)methane	93	6.208	6.208	(0.964)	548503	20.0000	20
	28 2,4-Dichlorophenol	162	6.297	6.297	(0.978)	397313	20.0000	20
	29 1,2,4-Trichlorobenzene	180	6.386	6.386	(0.992)	426682	20.0000	20
	30 Naphthalene	128	6.464	6.464	(1.004)	1452243	20.0000	20
	31 4-Chloroaniline	127	6.535	6.535	(1.015)	601252	20.0000	20
	32 Hexachlorobutadiene	225	6.618	6.618	(1.028)	266982	20.0000	20
	129 Caprolactam	113	6.903	6.903	(1.072)	160818	20.0000	20
	33 4-Chloro-3-methylphenol	107	7.069	7.069	(1.098)	462624	20.0000	20
	34 2-Methylnaphthalene	142	7.211	7.211	(1.120)	999814	20.0000	20
*	35 Acenaphthene-d10	164	8.321	8.321	(1.000)	943458	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.170	7.170	(1.416)	410376	20.0000	20
	37 Hexachlorocyclopentadiene	237	7.389	7.389	(0.888)	275510	20.0000	19
	38 2,4,6-Trichlorophenol	196	7.520	7.520	(0.904)	320767	20.0000	20
	39 2,4,5-Trichlorophenol	196	7.556	7.556	(0.908)	512433	30.0000	30
$	40 2-Fluorobiphenyl	172	7.609	7.609	(0.914)	1161769	20.0000	20
	130 1,1'-Biphenyl	154	7.716	7.716	(0.927)	1219383	20.0000	20
	41 2-Chloronaphthalene	162	7.728	7.728	(0.929)	999318	20.0000	20
	42 2-Nitroaniline	65	7.841	7.841	(0.942)	313409	20.0000	20
	43 Acenaphthylene	152	8.167	8.167	(0.981)	1703184	20.0000	20
	44 Dimethylphthalate	163	8.048	8.048	(0.967)	1199780	20.0000	20
	45 2,6-Dinitrotoluene	165	8.102	8.102	(0.974)	258427	20.0000	20
	46 Acenaphthene	153	8.357	8.357	(1.004)	1042312	20.0000	21
	47 3-Nitroaniline	138	8.280	8.280	(0.995)	310465	20.0000	20
	48 2,4-Dinitrophenol	184	8.387	8.387	(1.008)	141056	30.0000	29
	49 Dibenzofuran	168	8.541	8.541	(1.026)	1546747	20.0000	21
	50 2,4-Dinitrotoluene	165	8.529	8.529	(1.025)	369702	20.0000	20
	51 4-Nitrophenol	109	8.464	8.464	(1.017)	241505	30.0000	30
	52 Fluorene	166	8.909	8.909	(1.071)	1250126	20.0000	20
	53 4-Chlorophenyl-phenylether	204	8.915	8.915	(1.071)	577890	20.0000	20
	54 Diethylphthalate	149	8.808	8.808	(1.058)	1468165	20.0000	20
	55 4-Nitroaniline	138	8.927	8.927	(1.073)	332260	20.0000	20
$	56 2,4,6-Tribromophenol	330	9.164	9.164	(1.101)	255800	30.0000	30
*	57 Phenanthrene-d10	188	9.906	9.906	(1.000)	1637857	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.962	8.962	(0.905)	267434	30.0000	27
	59 N-Nitrosodiphenylamine (1)	169	9.040	9.040	(0.913)	958471	20.0000	21
	60 1,2-Diphenylhydrazine	77	9.081	9.081	(0.917)	1367771	20.0000	20
	61 4-Bromophenyl-phenylether	248	9.431	9.431	(0.952)	348111	20.0000	20
	131 Atrazine	200	9.615	9.615	(0.971)	364569	20.0000	20
	62 Hexachlorobenzene	284	9.502	9.502	(0.959)	371333	20.0000	20
	63 Pentachlorophenol	266	9.710	9.710	(0.980)	321382	30.0000	29
	64 Phenanthrene	178	9.930	9.930	(1.002)	1882616	20.0000	20
	65 Carbazole	167	10.155	10.155	(1.025)	1881964	20.0000	20
	66 Anthracene	178	9.983	9.983	(1.008)	1945117	20.0000	20
	67 Di-n-butylphthalate	149	10.547	10.547	(1.065)	2251549	20.0000	20
	68 Fluoranthene	202	11.200	11.200	(1.131)	2185241	20.0000	21
*	70 Chrysene-d12	240	12.880	12.880	(1.000)	1871541	20.0000	(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
72	Pyrene	202	11.443	11.443	(0.888)	2260517	20.0000	1
$ 73	Terphenyl-d14	244	11.615	11.615	(0.902)	1577738	20.0000	1
74	Butylbenzylphthalate	149	12.167	12.167	(0.945)	1020614	20.0000	1
75	3,3'-Dichlorobenzidine	252	12.832	12.832	(0.996)	646834	20.0000	1
76	Benzo(a)anthracene	228	12.862	12.862	(0.999)	2084131	20.0000	1
77	Chrysene	228	12.915	12.915	(1.003)	2080280	20.0000	1
78	Bis(2-Ethylhexyl)phthalate	149	12.915	12.915	(1.003)	1405750	20.0000	1
* 79	Perylene-d12	264	15.224	15.224	(1.000)	1399732	20.0000	
80	Di-n-octylphthalate	149	13.906	13.906	(0.913)	2131993	20.0000	19
81	Benzo(b)fluoranthene	252	14.536	14.536	(0.955)	1900508	20.0000	20
82	Benzo(k)fluoranthene	252	14.583	14.583	(0.958)	2125625	20.0000	20
83	Benzo(a)pyrene	252	15.117	15.117	(0.993)	1636586	20.0000	20
84	Indeno(1,2,3-cd)pyrene	276	17.361	17.361	(1.140)	1565279	20.0000	22
85	Dibenzo(a,h)anthracene	278	17.420	17.420	(1.144)	1703603	20.0000	22
86	Benzo(g,h,i)perylene	276	17.919	17.919	(1.177)	1765248	20.0000	22
167	Simazine	201	9.586	9.586	(0.968)	188258	20.0000	20

QC Flag Legend

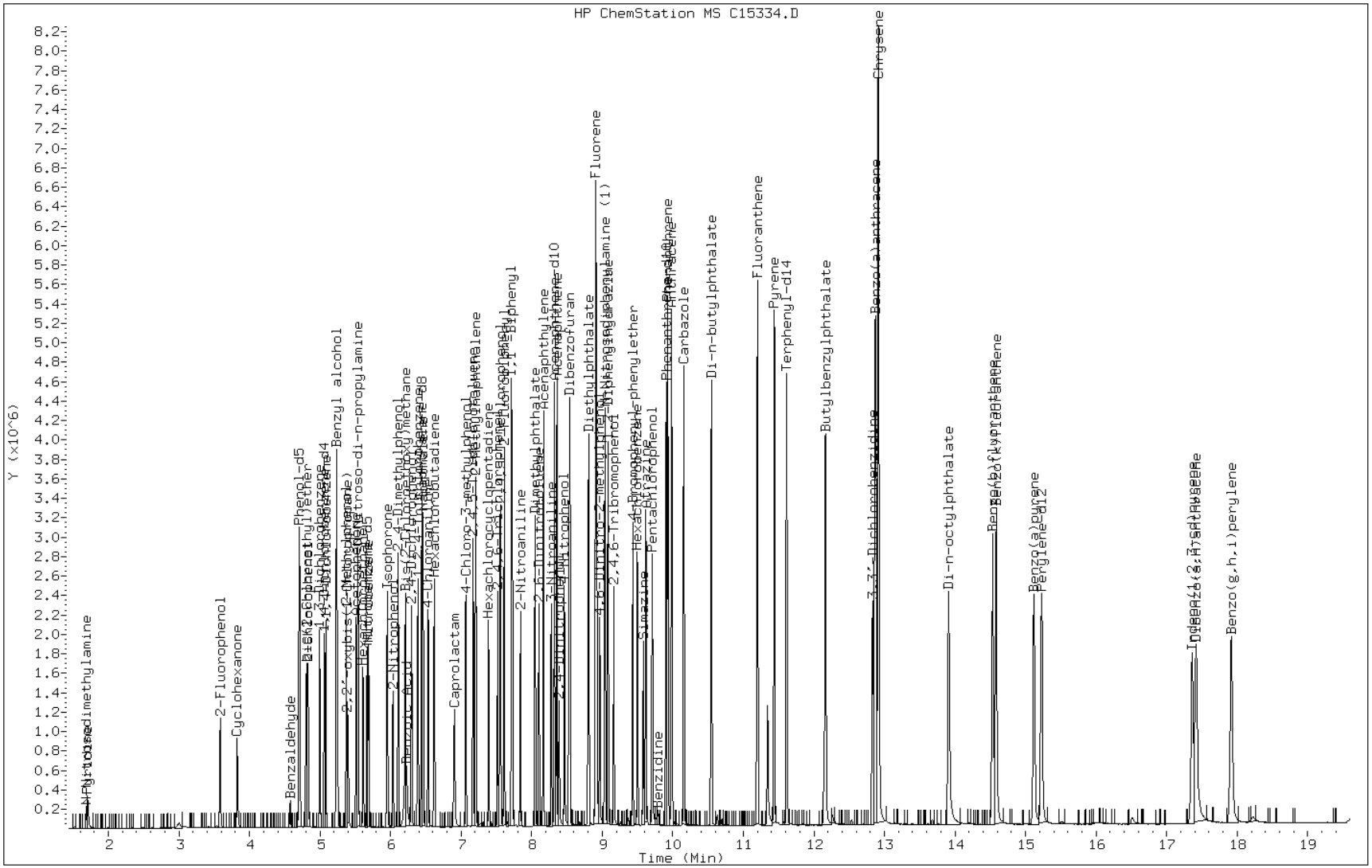
M - Compound response manually integrated.

Data File: C15334.D

Date: 18-DEC-2009 16:01

Client ID: IC-395384 Instrument: msc.i

Sample Info: IC-395384;20/30 Operator: S.Jonas



Manual Integration Report

Data File: C15334.D
Inj. Date and Time: 18-DEC-2009 16:01
Instrument ID: msc.i
Client ID: IC-395384
Compound: 70 Chrysene-d12
CAS #: 1719-03-5
Report Date: 12/21/2009

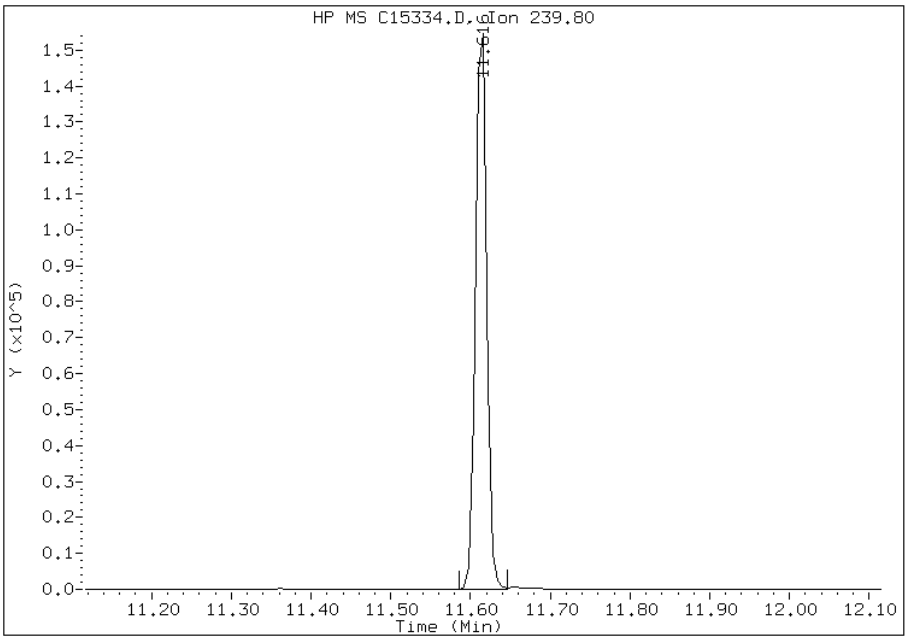
Processing Integration Results

RT: 11.62

Response: 150956

Amount: 20

Conc: 20



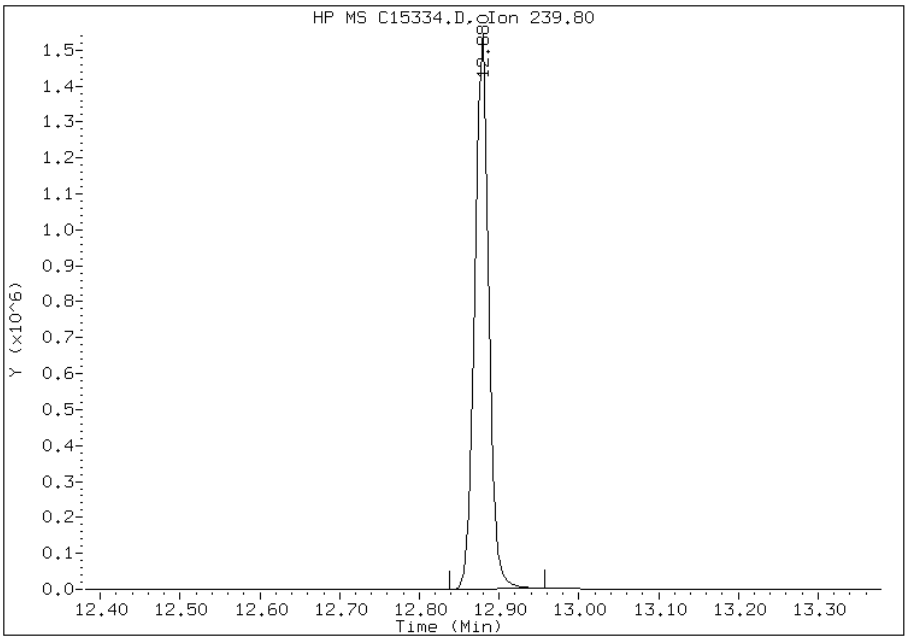
Manual Integration Results

RT: 12.88

Response: 1871541

Amount: 20

Conc: 20



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak identification

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915328.b\C15335.D
Lab Smp Id: IC-395385 Client Smp ID: IC-395385
Inj Date : 18-DEC-2009 16:31
Operator : S.Jonas Inst ID: msc.i
Smp Info : IC-395385;60
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915328.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:28 stephan Quant Type: ISTD
Cal Date : 18-DEC-2009 16:31 Cal File: C15335.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.063	5.063	(1.000)	256750	20.0000	
$ 2	2-Fluorophenol	112	3.591	3.591	(0.709)	1035704	60.0000	64
$ 3	Phenol-d5	99	4.713	4.713	(0.931)	1367845	60.0000	60
4	Pyridine	52	1.709	1.709	(0.338)	256534	60.0000	66
5	N-Nitrosodimethylamine	42	1.691	1.691	(0.334)	175160	60.0000	62
6	Cyclohexanone	42	3.828	3.828	(0.756)	454721	60.0000	57
128	Benzaldehyde	77	4.576	4.576	(0.904)	125710	60.0000	68
7	Phenol	94	4.724	4.724	(0.933)	1563901	60.0000	61
8	Aniline	93	4.707	4.707	(0.930)	1685172	60.0000	59
9	bis(2-Chloroethyl)ether	63	4.807	4.807	(0.950)	830758	60.0000	61
10	2-Chlorophenol	128	4.831	4.831	(0.954)	1207191	60.0000	62
11	1,3-Dichlorobenzene	146	4.997	4.997	(0.987)	1344806	60.0000	62
12	1,4-Dichlorobenzene	146	5.081	5.081	(1.004)	1380367	60.0000	62
13	Benzyl alcohol	108	5.241	5.241	(1.035)	786877	60.0000	60
14	1,2-Dichlorobenzene	146	5.247	5.247	(1.036)	1277442	60.0000	60
15	2,2'-oxybis(1-Chloropropane)	45	5.395	5.395	(1.066)	1510870	60.0000	60
16	2-Methylphenol	108	5.377	5.377	(1.062)	1139799	60.0000	61
92	Acetophenone	105	5.520	5.520	(1.090)	1777041	60.0000	61
17	Hexachloroethane	117	5.609	5.609	(1.108)	554871	60.0000	62
18	N-Nitroso-di-n-propylamine	70	5.538	5.538	(1.094)	937616	60.0000	60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.543	5.543	(1.095)	1203737	60.0000	60
*	20 Naphthalene-d8	136	6.440	6.440	(1.000)	1284001	20.0000	
$	21 Nitrobenzene-d5	82	5.674	5.674	(0.881)	1452494	60.0000	61
	22 Nitrobenzene	77	5.692	5.692	(0.884)	1440101	60.0000	61
	23 Isophorone	82	5.959	5.959	(0.925)	2674275	60.0000	60
	24 2-Nitrophenol	139	6.036	6.036	(0.937)	725058	60.0000	66
	25 2,4-Dimethylphenol	122	6.113	6.113	(0.949)	1186534	60.0000	61
	26 Benzoic Acid	122	6.250	6.250	(0.971)	759200	60.0000	59(M)
	27 Bis(2-Chloroethoxy)methane	93	6.214	6.214	(0.965)	1588707	60.0000	60
	28 2,4-Dichlorophenol	162	6.303	6.303	(0.979)	1170010	60.0000	61
	29 1,2,4-Trichlorobenzene	180	6.386	6.386	(0.992)	1253040	60.0000	60
	30 Naphthalene	128	6.463	6.463	(1.004)	4087311	60.0000	59
	31 4-Chloroaniline	127	6.535	6.535	(1.015)	1706191	60.0000	60
	32 Hexachlorobutadiene	225	6.618	6.618	(1.028)	793818	60.0000	62
	129 Caprolactam	113	6.938	6.938	(1.077)	497183	60.0000	62
	33 4-Chloro-3-methylphenol	107	7.075	7.075	(1.099)	1371147	60.0000	62
	34 2-Methylnaphthalene	142	7.211	7.211	(1.120)	2762892	60.0000	58
*	35 Acenaphthene-d10	164	8.321	8.321	(1.000)	924116	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.170	7.170	(1.416)	1189505	60.0000	61
	37 Hexachlorocyclopentadiene	237	7.389	7.389	(0.888)	926952	60.0000	65
	38 2,4,6-Trichlorophenol	196	7.520	7.520	(0.904)	950799	60.0000	62
	39 2,4,5-Trichlorophenol	196	7.561	7.561	(0.909)	1040674	60.0000	63
$	40 2-Fluorobiphenyl	172	7.615	7.615	(0.915)	3258229	60.0000	58
	130 1,1'-Biphenyl	154	7.716	7.716	(0.927)	3395675	60.0000	58
	41 2-Chloronaphthalene	162	7.728	7.728	(0.929)	2797915	60.0000	58
	42 2-Nitroaniline	65	7.846	7.846	(0.943)	965481	60.0000	63
	43 Acenaphthylene	152	8.167	8.167	(0.981)	4733979	60.0000	58
	44 Dimethylphthalate	163	8.054	8.054	(0.968)	3435213	60.0000	59
	45 2,6-Dinitrotoluene	165	8.108	8.108	(0.974)	804363	60.0000	64
	46 Acenaphthene	153	8.357	8.357	(1.004)	2852584	60.0000	57
	47 3-Nitroaniline	138	8.286	8.286	(0.996)	949048	60.0000	63
	48 2,4-Dinitrophenol	184	8.392	8.392	(1.009)	376765	60.0000	59
	49 Dibenzofuran	168	8.547	8.547	(1.027)	4121867	60.0000	56
	50 2,4-Dinitrotoluene	165	8.535	8.535	(1.026)	1074560	60.0000	60
	51 4-Nitrophenol	109	8.476	8.476	(1.019)	503118	60.0000	63
	52 Fluorene	166	8.909	8.909	(1.071)	3391207	60.0000	57
	53 4-Chlorophenyl-phenylether	204	8.915	8.915	(1.071)	1611977	60.0000	57
	54 Diethylphthalate	149	8.814	8.814	(1.059)	3703130	60.0000	60
	55 4-Nitroaniline	138	8.944	8.944	(1.075)	1015091	60.0000	61(H)
$	56 2,4,6-Tribromophenol	330	9.170	9.170	(1.102)	535538	60.0000	64
*	57 Phenanthrene-d10	188	9.906	9.906	(1.000)	1591624	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.974	8.974	(0.906)	611777	60.0000	64
	59 N-Nitrosodiphenylamine (1)	169	9.045	9.045	(0.913)	2677691	60.0000	59
	60 1,2-Diphenylhydrazine	77	9.087	9.087	(0.917)	3809549	60.0000	58
	61 4-Bromophenyl-phenylether	248	9.437	9.437	(0.953)	999118	60.0000	60
	131 Atrazine	200	9.627	9.627	(0.972)	1053181	60.0000	60
	62 Hexachlorobenzene	284	9.502	9.502	(0.959)	1090449	60.0000	61
	63 Pentachlorophenol	266	9.710	9.710	(0.980)	692235	60.0000	64
	64 Phenanthrene	178	9.936	9.936	(1.003)	5182487	60.0000	58
	65 Carbazole	167	10.161	10.161	(1.026)	5145515	60.0000	58
	66 Anthracene	178	9.989	9.989	(1.008)	5328476	60.0000	57
	67 Di-n-butylphthalate	149	10.547	10.547	(1.065)	6288970	60.0000	58
	68 Fluoranthene	202	11.206	11.206	(1.131)	5973338	60.0000	58
*	70 Chrysene-d12	240	12.879	12.879	(1.000)	1736571	20.0000	(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
72	Pyrene	202	11.443	11.443	(0.888)	6178871	60.0000	3
$ 73	Terphenyl-d14	244	11.615	11.615	(0.902)	4343720	60.0000	3
74	Butylbenzylphthalate	149	12.167	12.167	(0.945)	2994212	60.0000	4
75	3,3'-Dichlorobenzidine	252	12.838	12.838	(0.997)	1979511	60.0000	4
76	Benzo(a)anthracene	228	12.868	12.868	(0.999)	6012059	60.0000	3
77	Chrysene	228	12.921	12.921	(1.003)	5587650	60.0000	3
78	Bis(2-Ethylhexyl)phthalate	149	12.915	12.915	(1.003)	3918553	60.0000	3
* 79	Perylene-d12	264	15.230	15.230	(1.000)	1320594	20.0000	
80	Di-n-octylphthalate	149	13.912	13.912	(0.913)	6903995	60.0000	66
81	Benzo(b)fluoranthene	252	14.547	14.547	(0.955)	5511931	60.0000	60
82	Benzo(k)fluoranthene	252	14.595	14.595	(0.958)	6197600	60.0000	62
83	Benzo(a)pyrene	252	15.129	15.129	(0.993)	4816944	60.0000	62
84	Indeno(1,2,3-cd)pyrene	276	17.373	17.373	(1.141)	3917043	60.0000	57
85	Dibenzo(a,h)anthracene	278	17.432	17.432	(1.145)	4297733	60.0000	59
86	Benzo(g,h,i)perylene	276	17.930	17.930	(1.177)	3819115	60.0000	51
167	Simazine	201	9.597	9.597	(0.969)	573226	60.0000	62

QC Flag Legend

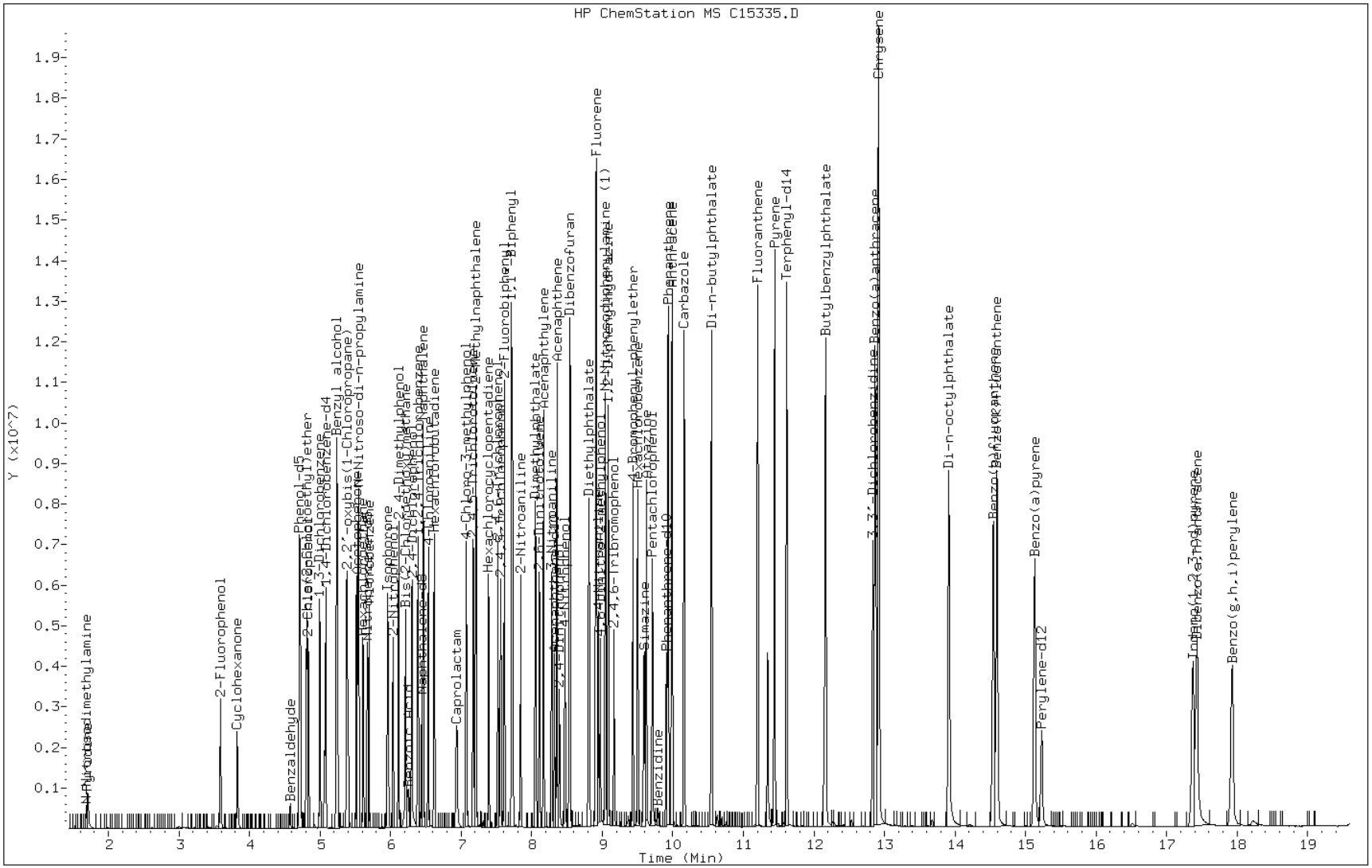
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: C15335.D

Date: 18-DEC-2009 16:31

Client ID: IC-395385 Instrument: msc.i

Sample Info: IC-395385;60 Operator: S.Jonas



Manual Integration Report

Data File: C15335.D
Inj. Date and Time: 18-DEC-2009 16:31
Instrument ID: msc.i
Client ID: IC-395385
Compound: 70 Chrysene-d12
CAS #: 1719-03-5
Report Date: 12/21/2009

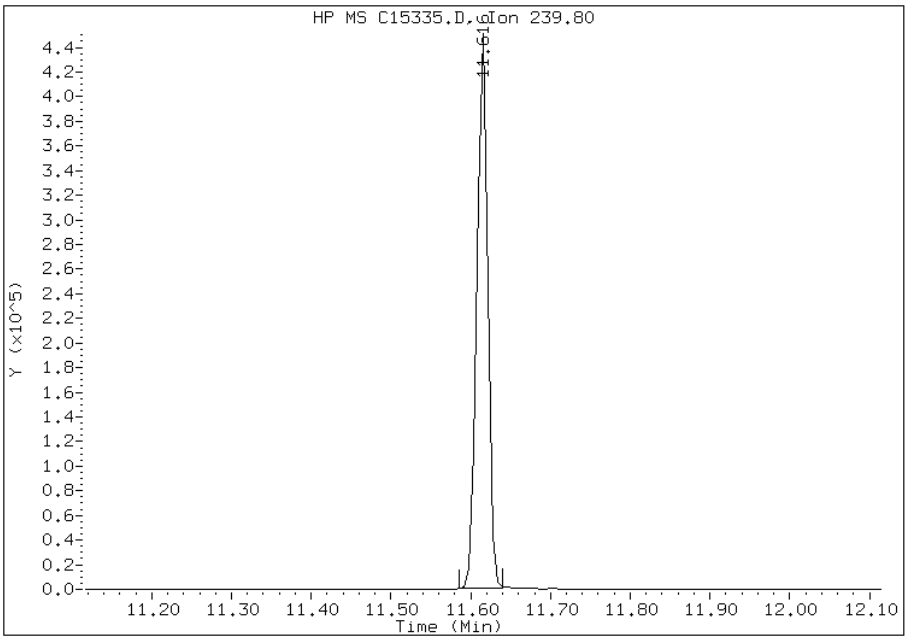
Processing Integration Results

RT: 11.62

Response: 424000

Amount: 20

Conc: 20



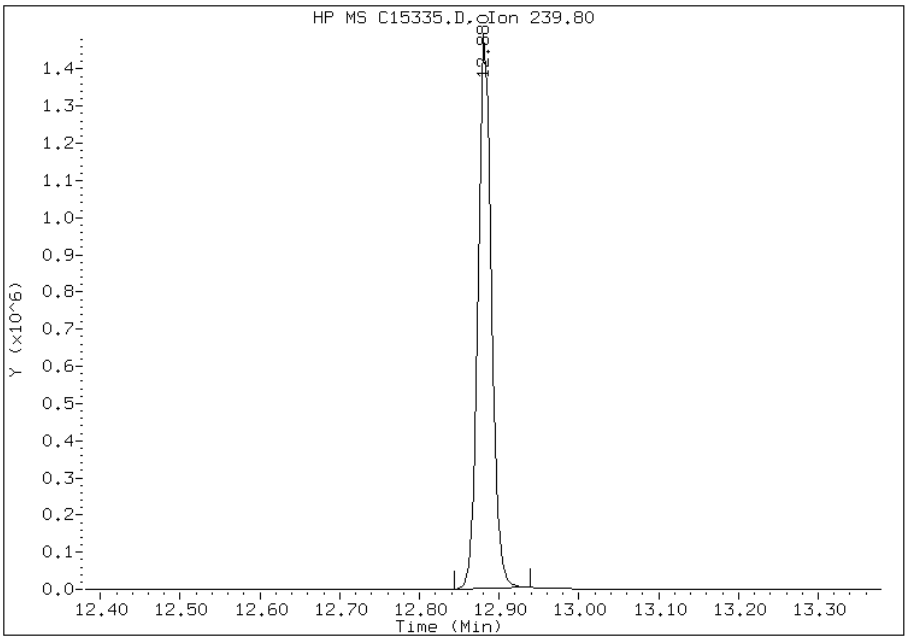
Manual Integration Results

RT: 12.88

Response: 1736571

Amount: 20

Conc: 20



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak identification

Manual Integration Report

Data File: C15335.D
Inj. Date and Time: 18-DEC-2009 16:31
Instrument ID: msc.i
Client ID: IC-395385
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/21/2009

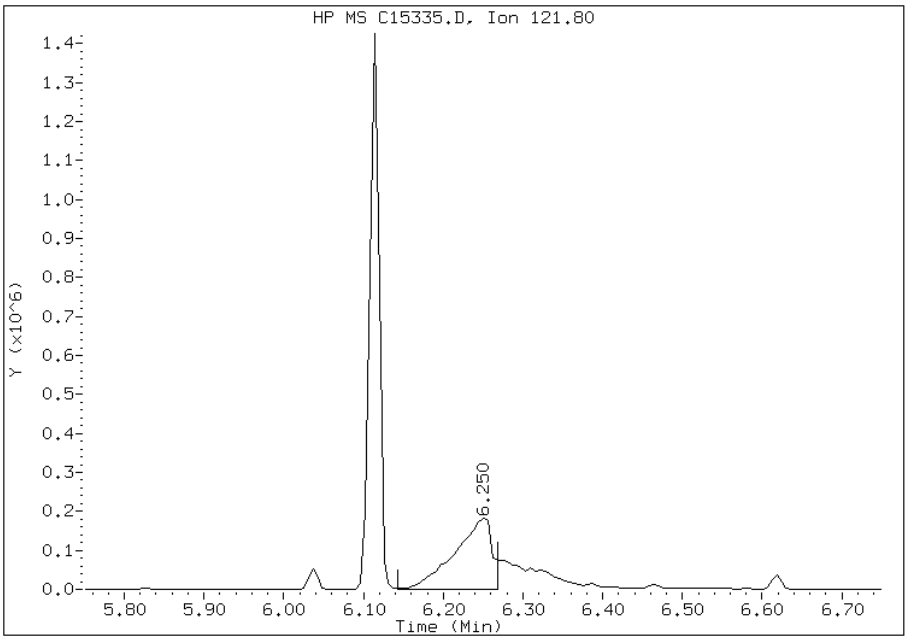
Processing Integration Results

RT: 6.25

Response: 588996

Amount: 52

Conc: 52



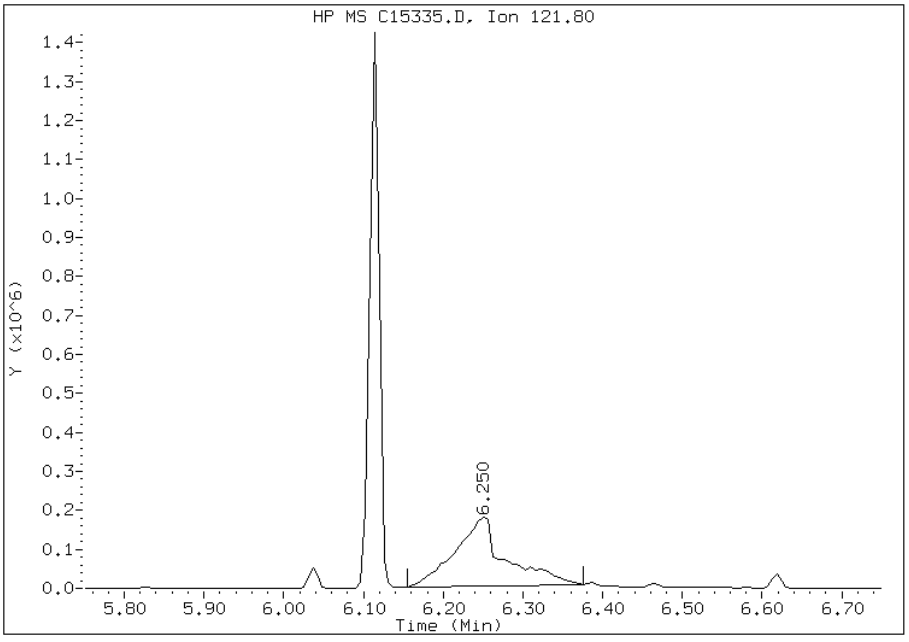
Manual Integration Results

RT: 6.25

Response: 759200

Amount: 59

Conc: 59



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915328.b\C15336.D
Lab Smp Id: IC-395386 Client Smp ID: IC-395386
Inj Date : 18-DEC-2009 17:02
Operator : S.Jonas Inst ID: msc.i
Smp Info : IC-395386;80
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915328.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:28 stephan Quant Type: ISTD
Cal Date : 18-DEC-2009 17:02 Cal File: C15336.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.063	5.063	(1.000)	251154	20.0000	
$ 2	2-Fluorophenol	112	3.591	3.591	(0.709)	1291011	80.0000	81(A)
$ 3	Phenol-d5	99	4.719	4.719	(0.932)	1731155	80.0000	78
4	Pyridine	52	1.709	1.709	(0.338)	323813	80.0000	85(A)
5	N-Nitrosodimethylamine	42	1.692	1.692	(0.334)	232203	80.0000	84(A)
6	Cyclohexanone	42	3.828	3.828	(0.756)	504175	80.0000	65
128	Benzaldehyde	77	4.576	4.576	(0.904)	131928	80.0000	73
7	Phenol	94	4.731	4.731	(0.934)	1937724	80.0000	77
8	Aniline	93	4.707	4.707	(0.930)	2101763	80.0000	76
9	bis(2-Chloroethyl)ether	63	4.808	4.808	(0.950)	1010541	80.0000	76
10	2-Chlorophenol	128	4.837	4.837	(0.955)	1503533	80.0000	79
11	1,3-Dichlorobenzene	146	5.004	5.004	(0.988)	1672119	80.0000	79
12	1,4-Dichlorobenzene	146	5.087	5.087	(1.005)	1693068	80.0000	78
13	Benzyl alcohol	108	5.241	5.241	(1.035)	946484	80.0000	74
14	1,2-Dichlorobenzene	146	5.247	5.247	(1.036)	1554406	80.0000	75
15	2,2'-oxybis(1-Chloropropane)	45	5.395	5.395	(1.066)	1871557	80.0000	76
16	2-Methylphenol	108	5.383	5.383	(1.063)	1426342	80.0000	77
92	Acetophenone	105	5.520	5.520	(1.090)	2189361	80.0000	77
17	Hexachloroethane	117	5.615	5.615	(1.109)	686720	80.0000	79
18	N-Nitroso-di-n-propylamine	70	5.538	5.538	(1.094)	1155184	80.0000	75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.550	5.550	(1.096)	1477139	80.0000	76
*	20 Naphthalene-d8	136	6.440	6.440	(1.000)	1235394	20.0000	
$	21 Nitrobenzene-d5	82	5.674	5.674	(0.881)	1858759	80.0000	81(A)
	22 Nitrobenzene	77	5.698	5.698	(0.885)	1789492	80.0000	79
	23 Isophorone	82	5.965	5.965	(0.926)	3327683	80.0000	78
	24 2-Nitrophenol	139	6.036	6.036	(0.937)	917194	80.0000	86(A)
	25 2,4-Dimethylphenol	122	6.113	6.113	(0.949)	1473490	80.0000	78
	26 Benzoic Acid	122	6.262	6.262	(0.972)	1008746	80.0000	80(AM)
	27 Bis(2-Chloroethoxy)methane	93	6.214	6.214	(0.965)	1956425	80.0000	77
	28 2,4-Dichlorophenol	162	6.303	6.303	(0.979)	1461519	80.0000	79
	29 1,2,4-Trichlorobenzene	180	6.386	6.386	(0.992)	1572707	80.0000	79
	30 Naphthalene	128	6.464	6.464	(1.004)	4976026	80.0000	74
	31 4-Chloroaniline	127	6.535	6.535	(1.015)	2079217	80.0000	75
	32 Hexachlorobutadiene	225	6.618	6.618	(1.028)	995409	80.0000	80(A)
	129 Caprolactam	113	6.956	6.956	(1.080)	638372	80.0000	83(A)
	33 4-Chloro-3-methylphenol	107	7.075	7.075	(1.099)	1700318	80.0000	79
	34 2-Methylnaphthalene	142	7.211	7.211	(1.120)	3398012	80.0000	74
*	35 Acenaphthene-d10	164	8.321	8.321	(1.000)	882644	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.176	7.176	(1.417)	1477088	80.0000	78
	37 Hexachlorocyclopentadiene	237	7.390	7.390	(0.888)	1178975	80.0000	87(A)
	38 2,4,6-Trichlorophenol	196	7.520	7.520	(0.904)	1181475	80.0000	80(A)
	39 2,4,5-Trichlorophenol	196	7.562	7.562	(0.909)	1272994	80.0000	80(A)
$	40 2-Fluorobiphenyl	172	7.615	7.615	(0.915)	3965971	80.0000	74
	130 1,1'-Biphenyl	154	7.716	7.716	(0.927)	4073866	80.0000	72
	41 2-Chloronaphthalene	162	7.734	7.734	(0.929)	3415950	80.0000	74
	42 2-Nitroaniline	65	7.847	7.847	(0.943)	1208048	80.0000	83(A)
	43 Acenaphthylene	152	8.173	8.173	(0.982)	5729613	80.0000	73
	44 Dimethylphthalate	163	8.060	8.060	(0.969)	4278146	80.0000	76
	45 2,6-Dinitrotoluene	165	8.114	8.114	(0.975)	1021553	80.0000	85(A)
	46 Acenaphthene	153	8.357	8.357	(1.004)	3479314	80.0000	73
	47 3-Nitroaniline	138	8.292	8.292	(0.996)	1180923	80.0000	82(A)
	48 2,4-Dinitrophenol	184	8.393	8.393	(1.009)	514415	80.0000	80(A)
	49 Dibenzofuran	168	8.547	8.547	(1.027)	5046821	80.0000	72
	50 2,4-Dinitrotoluene	165	8.541	8.541	(1.026)	1328988	80.0000	78
	51 4-Nitrophenol	109	8.476	8.476	(1.019)	634539	80.0000	83(A)
	52 Fluorene	166	8.909	8.909	(1.071)	4112090	80.0000	72
	53 4-Chlorophenyl-phenylether	204	8.915	8.915	(1.071)	1995439	80.0000	74
	54 Diethylphthalate	149	8.814	8.814	(1.059)	4547425	80.0000	79
	55 4-Nitroaniline	138	8.951	8.951	(1.076)	1270275	80.0000	80(AH)
$	56 2,4,6-Tribromophenol	330	9.170	9.170	(1.102)	672154	80.0000	84(A)
*	57 Phenanthrene-d10	188	9.906	9.906	(1.000)	1519125	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.974	8.974	(0.906)	810292	80.0000	89(A)
	59 N-Nitrosodiphenylamine (1)	169	9.046	9.046	(0.913)	3305017	80.0000	76
	60 1,2-Diphenylhydrazine	77	9.087	9.087	(0.917)	4635297	80.0000	74
	61 4-Bromophenyl-phenylether	248	9.437	9.437	(0.953)	1256020	80.0000	79
	131 Atrazine	200	9.627	9.627	(0.972)	1317649	80.0000	78
	62 Hexachlorobenzene	284	9.503	9.503	(0.959)	1350240	80.0000	79
	63 Pentachlorophenol	266	9.710	9.710	(0.980)	902544	80.0000	87(A)
	64 Phenanthrene	178	9.936	9.936	(1.003)	6279395	80.0000	73
	65 Carbazole	167	10.161	10.161	(1.026)	6321179	80.0000	74
	66 Anthracene	178	9.989	9.989	(1.008)	6469831	80.0000	73
	67 Di-n-butylphthalate	149	10.547	10.547	(1.065)	7621525	80.0000	74
	68 Fluoranthene	202	11.206	11.206	(1.131)	7379682	80.0000	75
*	70 Chrysene-d12	240	12.886	12.886	(1.000)	1670097	20.0000	(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
72	Pyrene	202	11.449	11.449	(0.889)	7565013	80.0000	4
$ 73	Terphenyl-d14	244	11.615	11.615	(0.901)	5374904	80.0000	4
74	Butylbenzylphthalate	149	12.167	12.167	(0.944)	3720684	80.0000	4
75	3,3'-Dichlorobenzidine	252	12.838	12.838	(0.996)	2505428	80.0000	5
76	Benzo(a)anthracene	228	12.868	12.868	(0.999)	7551345	80.0000	4
77	Chrysene	228	12.921	12.921	(1.003)	6930201	80.0000	4
78	Bis(2-Ethylhexyl)phthalate	149	12.915	12.915	(1.002)	4843175	80.0000	4
* 79	Perylene-d12	264	15.230	15.230	(1.000)	1247915	20.0000	
80	Di-n-octylphthalate	149	13.912	13.912	(0.913)	8821011	80.0000	89(A)
81	Benzo(b)fluoranthene	252	14.548	14.548	(0.955)	7220651	80.0000	84(A)
82	Benzo(k)fluoranthene	252	14.601	14.601	(0.959)	7591482	80.0000	81(A)
83	Benzo(a)pyrene	252	15.135	15.135	(0.994)	6130964	80.0000	83(A)
84	Indeno(1,2,3-cd)pyrene	276	17.379	17.379	(1.141)	4690126	80.0000	73
85	Dibenzo(a,h)anthracene	278	17.432	17.432	(1.145)	5232331	80.0000	76
86	Benzo(g,h,i)perylene	276	17.937	17.937	(1.178)	4682210	80.0000	67
167	Simazine	201	9.597	9.597	(0.969)	712144	80.0000	81(A)

QC Flag Legend

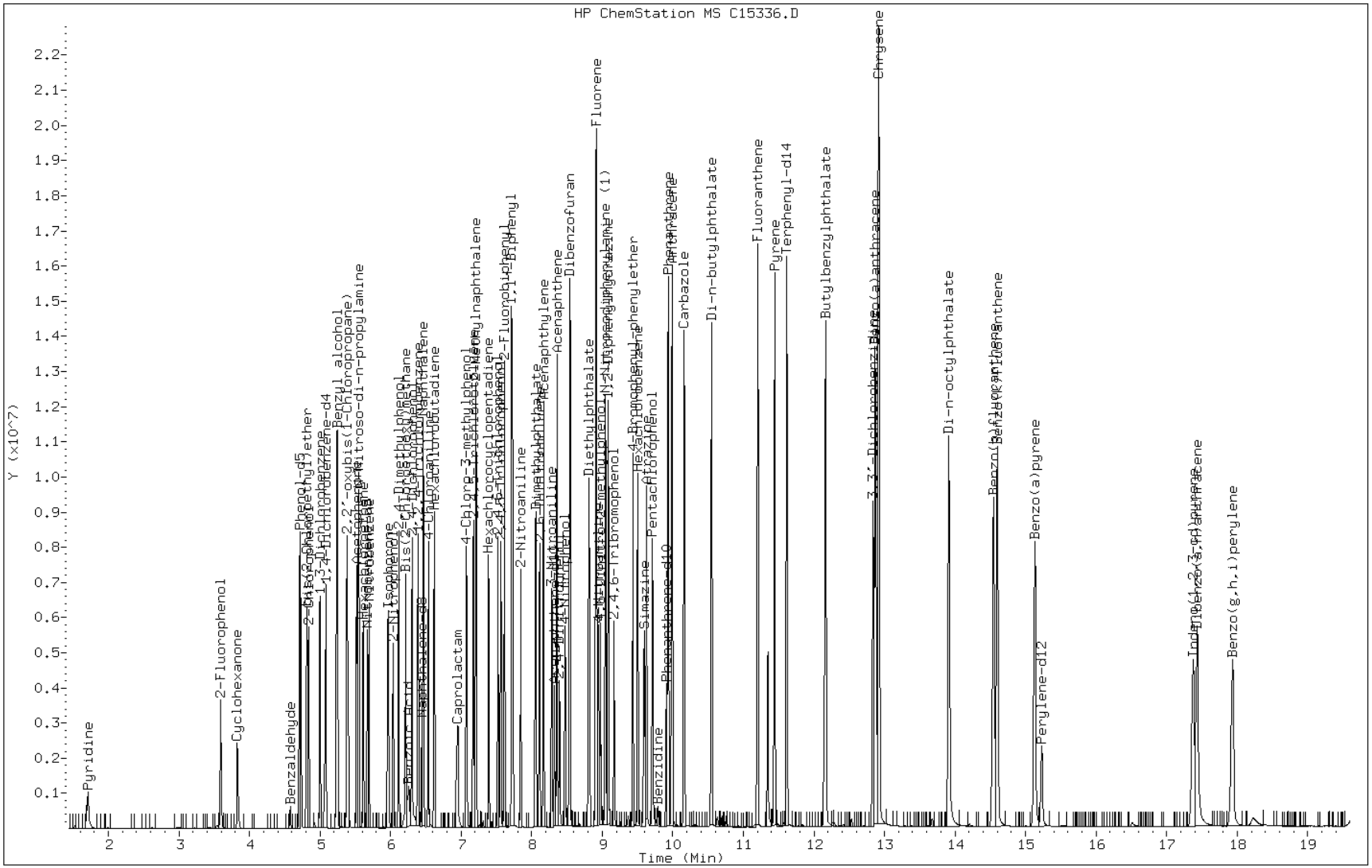
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: C15336.D

Date: 18-DEC-2009 17:02

Client ID: IC-395386 Instrument: msc.i

Sample Info: IC-395386;80 Operator: S.Jonas



Manual Integration Report

Data File: C15336.D
Inj. Date and Time: 18-DEC-2009 17:02
Instrument ID: msc.i
Client ID: IC-395386
Compound: 70 Chrysene-d12
CAS #: 1719-03-5
Report Date: 12/21/2009

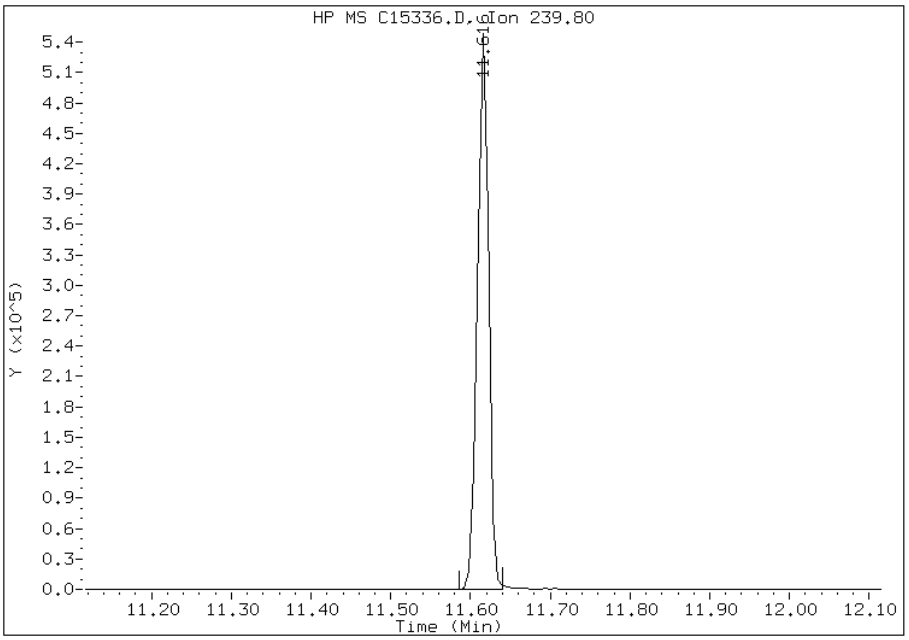
Processing Integration Results

RT: 11.62

Response: 530197

Amount: 20

Conc: 20



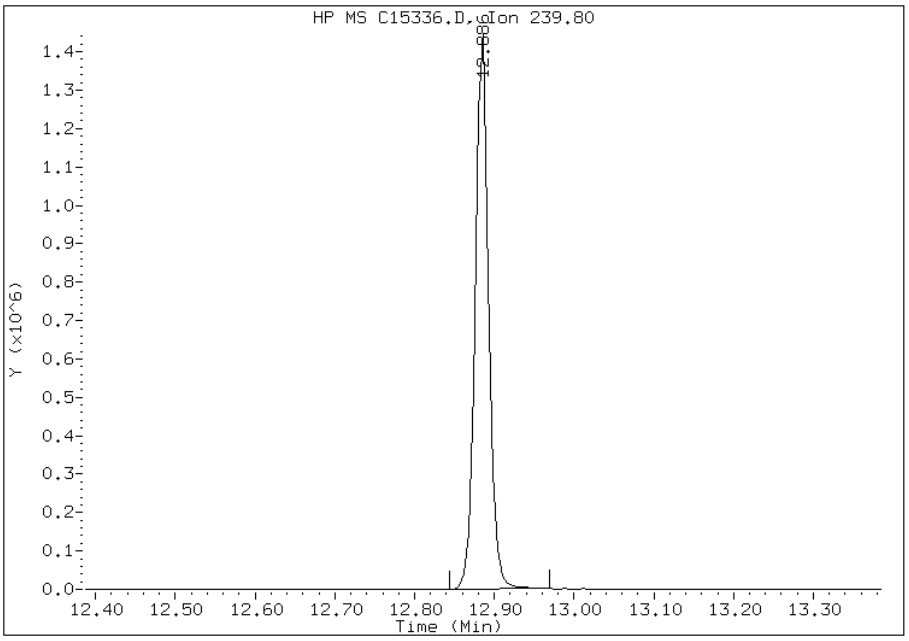
Manual Integration Results

RT: 12.89

Response: 1670097

Amount: 20

Conc: 20



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak identification

Manual Integration Report

Data File: C15336.D
Inj. Date and Time: 18-DEC-2009 17:02
Instrument ID: msc.i
Client ID: IC-395386
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/21/2009

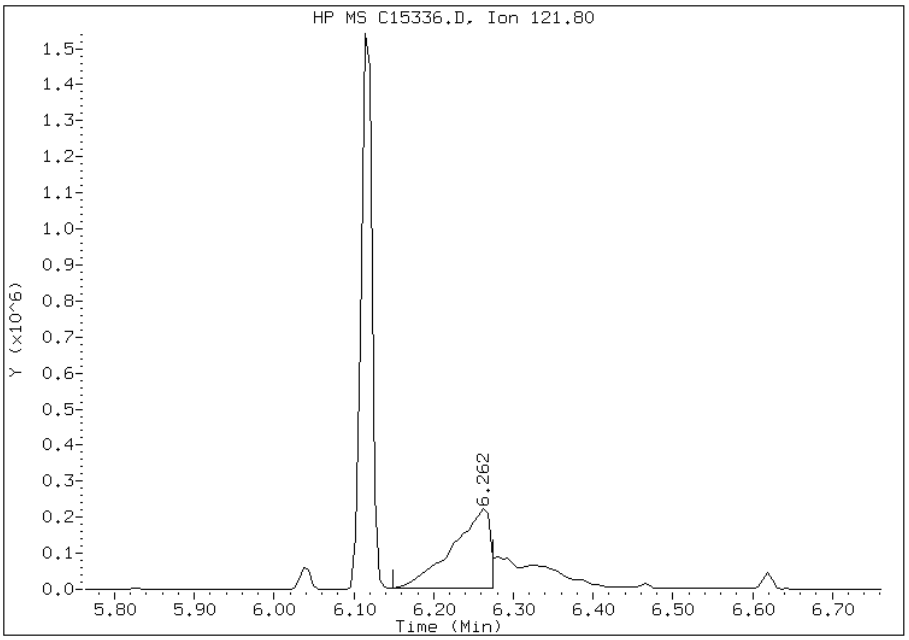
Processing Integration Results

RT: 6.26

Response: 721111

Amount: 72

Conc: 72



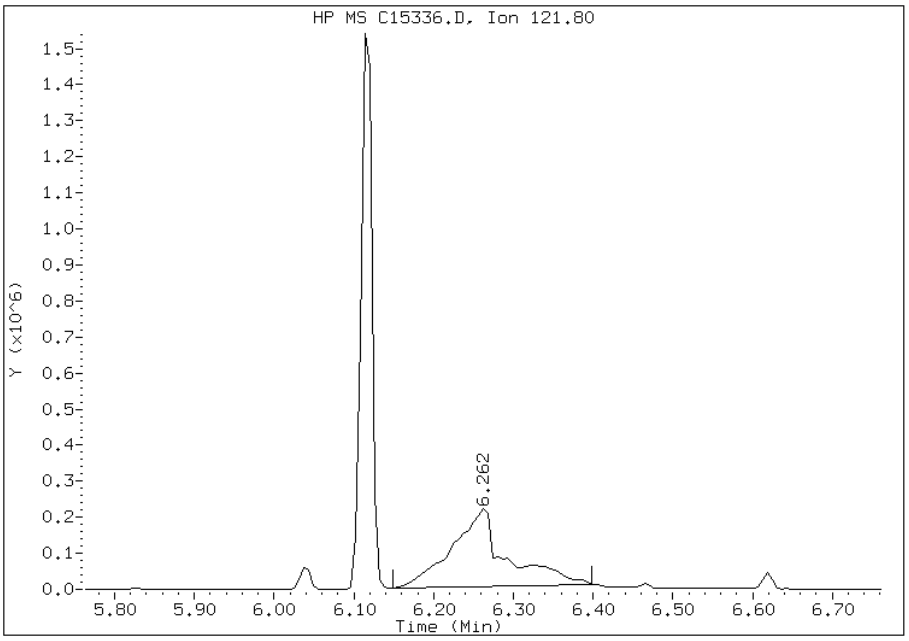
Manual Integration Results

RT: 6.26

Response: 1008746

Amount: 80

Conc: 80



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34488/2	Z14561.D
Level 2	IC 220-34488/3	Z14562.D
Level 3	IC 220-34488/4	Z14563.D
Level 4	ICIS 220-34488/1	Z14560.D
Level 5	IC 220-34488/5	Z14564.D
Level 6	IC 220-34488/6	Z14565.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodimethylamine	0.1522 0.1612	0.1623	0.1642	0.1602	0.1711	Ave		0.1619				3.8		15.0			
Pyridine	0.2109 0.2241	0.2137	0.2227	0.2210	0.2337	Ave		0.2210				3.7		15.0			
Cyclohexanone	0.4683 +++++	0.4756	0.4731	0.4423	0.3830	Ave		0.4485				8.7		15.0			
Benzaldehyde	0.0528 0.1265	0.1572	0.2361	0.1455	0.1916	Ave		0.1516				40.9	*	15.0			
Aniline	1.9633 1.6610	2.0145	1.9910	1.8099	1.8079	Ave		1.8746				7.4		15.0			
Phenol	1.7813 1.5439	1.8132	1.8372	1.6712	1.6839	Ave		1.7218				6.4		30.0			
Bis(2-chloroethyl)ether	0.9900 0.8054	0.9650	0.9559	0.8903	0.8754	Ave		0.9136				7.6		15.0			
2-Chlorophenol	1.4605 1.3274	1.4465	1.4845	1.4042	1.4437	Ave		1.4278				3.9		15.0			
1,3-Dichlorobenzene	1.5775 1.4316	1.5820	1.5829	1.4743	1.5294	Ave		1.5296				4.2		15.0			
1,4-Dichlorobenzene	1.6007 1.4163	1.5943	1.5931	1.4863	1.5282	Ave		1.5365				4.8		30.0			
Benzyl alcohol	0.9533 0.6577	0.9228	0.9140	0.7953	0.7551	Ave		0.8331				13.9		15.0			
1,2-Dichlorobenzene	1.5855 1.0978	1.5361	1.5235	1.3446	1.2546	Ave		1.3904				13.8		15.0			
2-Methylphenol	1.3800 1.1476	1.3895	1.3873	1.2372	1.2769	Ave		1.3031				7.6		15.0			
2,2'-oxybis[1-chloropropane]	1.6041 1.1573	1.5352	1.5135	1.3518	1.3143	Ave		1.4127				11.9		15.0			
Acetophenone	2.0811 1.7355	2.0360	2.0170	1.8459	1.8715	Ave		1.9312				6.9		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodi-n-propylamine	0.9891 0.7401	0.9657	0.9241	0.8353	0.8310	Ave		0.8809			0.0500	10.8		15.0			
4-Methylphenol	1.4601 1.1066	1.4638	1.4006	1.2516	1.2520	Ave		1.3225				10.8		15.0			
Hexachloroethane	0.6621 0.5864	0.6709	0.6806	0.6224	0.6303	Ave		0.6421				5.5		15.0			
Nitrobenzene	0.3224 0.2882	0.3286	0.3262	0.3089	0.3072	Ave		0.3136				4.9		15.0			
Isophorone	0.6179 0.5479	0.6120	0.5963	0.5685	0.5681	Ave		0.5851				4.8		15.0			
2-Nitrophenol	0.1555 0.1776	0.1715	0.1806	0.1768	0.1825	Ave		0.1741				5.6		30.0			
2,4-Dimethylphenol	0.3042 0.2684	0.3085	0.3057	0.2816	0.2802	Ave		0.2914				5.8		15.0			
Bis(2-chloroethoxy)methane	0.4238 0.3483	0.4204	0.4045	0.3708	0.3660	Ave		0.3890				8.1		15.0			
Benzoic acid	0.1026 0.2036	0.1614	0.1760	0.1823	0.1975	Lin	0.3027	0.2193						15.0	0.9996		0.9900
2,4-Dichlorophenol	0.2847 0.2428	0.2916	0.2899	0.2626	0.2639	Ave		0.2726				7.1		30.0			
1,2,4-Trichlorobenzene	0.3386 0.2678	0.3366	0.3232	0.2898	0.2821	Ave		0.3064				9.9		15.0			
Naphthalene	1.1397 0.8538	1.1244	1.0827	0.9540	0.9095	Ave		1.0107				11.9		15.0			
4-Chloroaniline	0.4328 0.3656	0.4536	0.4441	0.4121	0.3976	Ave		0.4176				7.8		15.0			
Hexachlorobutadiene	0.2029 0.1561	0.2041	0.1976	0.1731	0.1678	Ave		0.1836				11.2		30.0			
Caprolactam	0.0949 0.0981	0.0995	0.1013	0.1086	0.1102	Ave		0.1021				5.9		15.0			
4-Chloro-3-methylphenol	0.3046 0.2664	0.3170	0.3078	0.2928	0.2898	Ave		0.2964				6.0		30.0			
2,4,5-Trichlorotoluene	1.4032 1.0981	1.4050	1.3559	1.2225	1.2377	Ave		1.2871				9.5		15.0			
2-Methylnaphthalene	0.7419 0.5545	0.7397	0.7161	0.6398	0.6043	Ave		0.6660				11.8		15.0			
Hexachlorocyclopentadiene	0.1742 0.2369	0.2193	0.2526	0.2635	0.2583	Ave		0.2342			0.0500	14.3		15.0			
2,4,6-Trichlorophenol	0.3540 0.3209	0.3632	0.3666	0.3391	0.3320	Ave		0.3460				5.3		30.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,4,5-Trichlorophenol	0.3551 0.3278	0.3565	0.3649	0.3487	0.3415	Ave		0.3491				3.7		15.0			
1,1'-Biphenyl	1.5123 +++++	1.4849	1.4405	1.1941	1.1066	Ave		1.3477				13.7		15.0			
2-Chloronaphthalene	1.1672 0.8199	1.1451	1.1089	0.9435	0.8863	Ave		1.0118				14.6		15.0			
2-Nitroaniline	0.2928 0.2968	0.3120	0.3226	0.3130	0.3105	Ave		0.3080				3.6		15.0			
Dimethyl phthalate	1.2118 1.0223	1.1697	1.1595	1.0977	1.0749	Ave		1.1226				6.2		15.0			
2,6-Dinitrotoluene	0.2391 0.2610	0.2539	0.2678	0.2706	0.2673	Ave		0.2600				4.6		15.0			
Acenaphthylene	2.0087 1.5066	1.9935	1.9513	1.7231	1.6431	Ave		1.8044				11.6		15.0			
3-Nitroaniline	0.2702 0.3181	0.3010	0.3207	0.3278	0.3281	Ave		0.3110				7.2		15.0			
Acenaphthene	1.2522 0.9282	1.2071	1.1905	1.0492	0.9919	Ave		1.1032				11.9		30.0			
2,4-Dinitrophenol	+++++ 0.1391	0.0737	0.0867	0.1214	0.1282	Lin	0.6777	0.1682			0.0500			15.0	0.9963		0.9900
4-Nitrophenol	0.1264 0.1597	0.1364	0.1442	0.1555	0.1558	Ave		0.1463			0.0500	8.9		15.0			
2,4-Dinitrotoluene	0.3252 0.2880	0.3435	0.3558	0.3358	0.3084	Ave		0.3261				7.6		15.0			
Dibenzofuran	1.7997 +++++	1.7275	1.6701	1.4398	1.3202	Ave		1.5915				12.7		15.0			
Diethyl phthalate	1.2214 1.0582	1.2078	1.1980	1.1582	1.1113	Ave		1.1591				5.5		15.0			
Fluorene	1.3634 +++++	1.3606	1.3039	1.0894	0.9718	Ave		1.2178				14.6		15.0			
4-Chlorophenyl phenyl ether	0.6771 0.3975	0.6521	0.6250	0.5117	0.4489	Qua	0.0994	0.7908	1.0353					15.0	0.9996		0.9900
4-Nitroaniline	0.2936 0.3253	0.2823	0.3067	0.3280	0.3238	Ave		0.3099				6.1		15.0			
4,6-Dinitro-2-methylphenol	0.0584 0.1226	0.0897	0.0973	0.1093	0.1186	Lin	0.3633	0.1343						15.0	0.9985		0.9900
N-Nitrosodiphenylamine	0.5529 0.5067	0.5653	0.5614	0.5153	0.5310	Ave		0.5388				4.6		30.0			
1,2-Diphenylhydrazine	0.7887 0.6444	0.8058	0.7956	0.6914	0.6886	Ave		0.7358				9.4		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Bromophenyl phenyl ether	0.2017 0.1830	0.2094	0.2053	0.1929	0.1932	Ave		0.1976				4.9		15.0			
Hexachlorobenzene	0.2252 0.1998	0.2311	0.2257	0.2073	0.2109	Ave		0.2166				5.7		15.0			
Simazine	0.0884 0.1051	0.0956	0.0993	0.1020	0.1042	Ave		0.0991				6.3		15.0			
Atrazine	0.1774 0.1854	0.1761	0.1782	0.1773	0.1907	Ave		0.1809				3.2		15.0			
Pentachlorophenol	0.0977 0.1298	0.1104	0.1151	0.1219	0.1264	Ave		0.1169				10.1		30.0			
Benzidine	0.0345 0.0353	0.0357	0.0344	0.0338	0.0345	Ave		0.0347				2.0		15.0			
Phenanthrene	1.1324 0.9068	1.1094	1.0844	0.9819	0.9636	Ave		1.0297				8.9		15.0			
Anthracene	1.1516 0.9209	1.1349	1.1049	1.0117	0.9856	Ave		1.0516				8.8		15.0			
Carbazole	1.0403 0.9303	1.0302	1.0309	0.9729	0.9636	Ave		0.9947				4.6		15.0			
Di-n-butyl phthalate	1.0834 1.0073	1.1260	1.1557	1.1100	1.0750	Ave		1.0929				4.7		15.0			
Fluoranthene	1.1304 1.0478	1.1485	1.1753	1.1159	1.0900	Ave		1.1180				4.0		30.0			
Pyrene	1.3944 1.2077	1.4164	1.3619	1.2895	1.2579	Ave		1.3213				6.2		15.0			
3,3'-Dimethylbenzidine	0.0921 0.1661	0.1251	0.1706	0.1978	0.1939	Qua	0.2526	3.0147	3.5841					15.0	0.9906		0.9900
Butyl benzyl phthalate	0.4535 0.5446	0.4963	0.5189	0.5378	0.5487	Ave		0.5166				7.1		15.0			
3,3'-Dichlorobenzidine	0.2246 0.3167	0.2644	0.2923	0.3072	0.3333	Ave		0.2898				13.6		15.0			
Benzo[a]anthracene	1.0364 1.1236	1.0885	1.1320	1.1199	1.1608	Ave		1.1102				3.9		15.0			
Bis(2-ethylhexyl) phthalate	0.5435 0.5866	0.5929	0.6055	0.6010	0.5935	Ave		0.5872				3.8		15.0			
Chrysene	1.0333 0.9912	1.1110	1.1053	1.0165	1.0291	Ave		1.0477				4.7		15.0			
Di-n-octyl phthalate	1.1270 2.4637	1.2664	1.4454	1.8989	2.1714	Qua	0.1475	0.5514	-0.016					30.0	0.9986		0.9900
Benzo[b]fluoranthene	1.2358 1.8159	1.2977	1.4360	1.6094	1.8174	Lin	0.1698	1.8868						15.0	0.9969		0.9900

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.3944 1.9779	1.5271	1.5915	1.6363	1.8532	Ave		1.6634				12.9		15.0			
Benzo[a]pyrene	0.9804 1.3680	1.0847	1.1574	1.2189	1.3258	Ave		1.1892				12.3		30.0			
Indeno[1,2,3-cd]pyrene	0.6606 0.9747	0.7493	0.7607	0.6858	0.8099	Ave		0.7735				14.5		15.0			
Dibenz(a,h)anthracene	0.6983 1.0263	0.7816	0.8130	0.7393	0.8588	Ave		0.8196				14.1		15.0			
Benzo[g,h,i]perylene	0.7414 1.0305	0.8068	0.7805	0.6729	0.8348	Ave		0.8111				15.0		15.0			
2-Fluorophenol	1.1728 1.1476	1.1918	1.2189	1.1839	1.2263	Ave		1.1902				2.5		15.0			
Phenol-d5	1.6679 1.4021	1.6773	1.6805	1.5081	1.5239	Ave		1.5766				7.4		15.0			
Nitrobenzene-d5	0.3307 0.3206	0.3367	0.3415	0.3281	0.3305	Ave		0.3314				2.2		15.0			
2-Fluorobiphenyl	1.3876 1.0261	1.3487	1.3153	1.1531	1.0892	Ave		1.2200				12.3		15.0			
2,4,6-Tribromophenol	0.1665 0.1758	0.1683	0.1757	0.1786	0.1776	Ave		0.1737				2.9		15.0			
Terphenyl-d14	0.8522 0.7696	0.8748	0.8570	0.8393	0.8119	Ave		0.8342				4.5		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-34488/2	Z14561.D
Level 2	IC 220-34488/3	Z14562.D
Level 3	IC 220-34488/4	Z14563.D
Level 4	ICIS 220-34488/1	Z14560.D
Level 5	IC 220-34488/5	Z14564.D
Level 6	IC 220-34488/6	Z14565.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
N-Nitrosodimethylamine	DCB	Ave	15310 303930	40781	79040	167537	242391	4.00 80.0	10.0	20.0	40.0	60.0
Pyridine	DCB	Ave	21214 422555	53712	107186	231094	330973	4.00 80.0	10.0	20.0	40.0	60.0
Cyclohexanone	DCB	Ave	47104 +++++	119517	227707	462416	542491	4.00 +++++	10.0	20.0	40.0	60.0
Benzaldehyde	DCB	Ave	5309 238574	39500	113656	152073	271341	4.00 80.0	10.0	20.0	40.0	60.0
Aniline	DCB	Ave	197481 3132018	506262	958295	1892271	2560737	4.00 80.0	10.0	20.0	40.0	60.0
Phenol	DCB	Ave	179176 2911217	455680	884272	1747195	2385094	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-chloroethyl)ether	DCB	Ave	99578 1518568	242516	460089	930770	1239889	4.00 80.0	10.0	20.0	40.0	60.0
2-Chlorophenol	DCB	Ave	146904 2502817	363531	714503	1468058	2044919	4.00 80.0	10.0	20.0	40.0	60.0
1,3-Dichlorobenzene	DCB	Ave	158674 2699455	397566	761853	1541382	2166209	4.00 80.0	10.0	20.0	40.0	60.0
1,4-Dichlorobenzene	DCB	Ave	161012 2670511	400664	766773	1553910	2164567	4.00 80.0	10.0	20.0	40.0	60.0
Benzyl alcohol	DCB	Ave	95894 1240141	231909	439933	831482	1069597	4.00 80.0	10.0	20.0	40.0	60.0
1,2-Dichlorobenzene	DCB	Ave	159484 2070033	386050	733287	1405796	1777003	4.00 80.0	10.0	20.0	40.0	60.0
2-Methylphenol	DCB	Ave	138814 2163913	349185	667697	1293495	1808642	4.00 80.0	10.0	20.0	40.0	60.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	161356 2182242	385820	728435	1413302	1861517	4.00 80.0	10.0	20.0	40.0	60.0
Acetophenone	DCB	Ave	209335 3272456	511663	970783	1929900	2650843	4.00 80.0	10.0	20.0	40.0	60.0
N-Nitrosodi-n-propylamine	DCB	Ave	99496 1395496	242692	444782	873282	1177061	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methylphenol	DCB	Ave	146865 2086642	367878	674094	1308570	1773379	4.00 80.0	10.0	20.0	40.0	60.0
Hexachloroethane	DCB	Ave	66599 1105778	168602	327569	650702	892700	4.00 80.0	10.0	20.0	40.0	60.0
Nitrobenzene	NPT	Ave	149318 2361250	373065	713062	1446198	1987895	4.00 80.0	10.0	20.0	40.0	60.0
Isophorone	NPT	Ave	286211 4488045	694779	1303689	2661251	3676937	4.00 80.0	10.0	20.0	40.0	60.0
2-Nitrophenol	NPT	Ave	72050 1454702	194750	394912	827851	1180803	4.00 80.0	10.0	20.0	40.0	60.0
2,4-Dimethylphenol	NPT	Ave	140898 2198476	350201	668324	1318191	1813512	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-chloroethoxy)methane	NPT	Ave	196315 2853162	477274	884402	1735826	2368898	4.00 80.0	10.0	20.0	40.0	60.0
Benzoic acid	NPT	Lin	118797 1667508	458182	577134	853416	1277923	10.0 80.0	25.0	30.0	40.0	60.0
2,4-Dichlorophenol	NPT	Ave	131894 1988651	331066	633793	1229122	1708118	4.00 80.0	10.0	20.0	40.0	60.0
1,2,4-Trichlorobenzene	NPT	Ave	156826 2193857	382074	706682	1356699	1825984	4.00 80.0	10.0	20.0	40.0	60.0
Naphthalene	NPT	Ave	527908 6994620	1276512	2366984	4466297	5886052	4.00 80.0	10.0	20.0	40.0	60.0
4-Chloroaniline	NPT	Ave	200469 2994851	514971	970902	1929085	2573339	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorobutadiene	NPT	Ave	93991 1278504	231737	431934	810122	1085999	4.00 80.0	10.0	20.0	40.0	60.0
Caprolactam	NPT	Ave	43963 803993	112990	221531	508209	713353	4.00 80.0	10.0	20.0	40.0	60.0
4-Chloro-3-methylphenol	NPT	Ave	141080 2182414	359906	672869	1370842	1875662	4.00 80.0	10.0	20.0	40.0	60.0
2,4,5-Trichlorotoluene	DCB	Ave	141149 2070603	353100	652620	1278146	1753118	4.00 80.0	10.0	20.0	40.0	60.0
2-Methylnaphthalene	NPT	Ave	343650 4542486	839763	1565535	2995325	3910645	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorocyclopentadiene	ANT	Ave	51353 1183864	158579	339208	781349	1036418	4.00 80.0	10.0	20.0	40.0	60.0
2,4,6-Trichlorophenol	ANT	Ave	104327 1603385	262660	492233	1005597	1331843	4.00 80.0	10.0	20.0	40.0	60.0
2,4,5-Trichlorophenol	ANT	Ave	261656 1637837	644472	734954	1033967	1370087	10.0 80.0	25.0	30.0	40.0	60.0
1,1'-Biphenyl	ANT	Ave	445693 +++++	1073784	1934060	3540784	4439524	4.00 +++++	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Chloronaphthalene	ANT	Ave	344011 4096837	828073	1488820	2797765	3555859	4.00 80.0	10.0	20.0	40.0	60.0
2-Nitroaniline	ANT	Ave	86285 1483225	225651	433142	927965	1245818	4.00 80.0	10.0	20.0	40.0	60.0
Dimethyl phthalate	ANT	Ave	357140 5107988	845852	1556801	3254879	4312318	4.00 80.0	10.0	20.0	40.0	60.0
2,6-Dinitrotoluene	ANT	Ave	70480 1304371	183626	359618	802382	1072281	4.00 80.0	10.0	20.0	40.0	60.0
Acenaphthylene	ANT	Ave	592006 7527758	1441548	2619859	5109259	6592106	4.00 80.0	10.0	20.0	40.0	60.0
3-Nitroaniline	ANT	Ave	79632 1589418	217666	430602	971854	1316272	4.00 80.0	10.0	20.0	40.0	60.0
Acenaphthene	ANT	Ave	369050 4637742	872929	1598359	3111020	3979554	4.00 80.0	10.0	20.0	40.0	60.0
2,4-Dinitrophenol	ANT	Lin	+++++ 695096	133214	174704	359954	514439	+++++ 80.0	25.0	30.0	40.0	60.0
4-Nitrophenol	ANT	Ave	93140 798185	246589	290485	461071	624961	10.0 80.0	25.0	30.0	40.0	60.0
2,4-Dinitrotoluene	ANT	Ave	95838 1438860	248414	477756	995794	1237078	4.00 80.0	10.0	20.0	40.0	60.0
Dibenzofuran	ANT	Ave	530420 +++++	1249211	2242360	4269327	5296427	4.00 +++++	10.0	20.0	40.0	60.0
Diethyl phthalate	ANT	Ave	359985 5287447	873368	1608421	3434129	4458367	4.00 80.0	10.0	20.0	40.0	60.0
Fluorene	ANT	Ave	401814 +++++	983875	1750626	3230311	3898929	4.00 +++++	10.0	20.0	40.0	60.0
4-Chlorophenyl phenyl ether	ANT	Qua	199556 1986275	471538	839198	1517248	1800886	4.00 80.0	10.0	20.0	40.0	60.0
4-Nitroaniline	ANT	Ave	86520 1625325	204112	411783	972603	1299239	4.00 80.0	10.0	20.0	40.0	60.0
4,6-Dinitro-2-methylphenol	PHN	Lin	74311 1000843	269233	327206	562312	780179	10.0 80.0	25.0	30.0	40.0	60.0
N-Nitrosodiphenylamine	PHN	Ave	281463 4136191	678458	1258868	2652145	3493136	4.00 80.0	10.0	20.0	40.0	60.0
1,2-Diphenylhydrazine	PHN	Ave	401492 5260154	967019	1784284	3557944	4530344	4.00 80.0	10.0	20.0	40.0	60.0
4-Bromophenyl phenyl ether	PHN	Ave	102668 1493433	251300	460307	992690	1271215	4.00 80.0	10.0	20.0	40.0	60.0
Hexachlorobenzene	PHN	Ave	114626 1630746	277282	506125	1066716	1387614	4.00 80.0	10.0	20.0	40.0	60.0
Simazine	PHN	Ave	45015 857999	114746	222604	524706	685361	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Atrazine	PHN	Ave	90322 1513342	211366	399570	912387	1254625	4.00 80.0	10.0	20.0	40.0	60.0
Pentachlorophenol	PHN	Ave	124303 1059946	331161	387050	627456	831825	10.0 80.0	25.0	30.0	40.0	60.0
Benzidine	CRY	Ave	14888 259021	36118	69162	153989	204450	4.00 80.0	10.0	20.0	40.0	60.0
Phenanthrene	PHN	Ave	576462 7402321	1331365	2431796	5053075	6339196	4.00 80.0	10.0	20.0	40.0	60.0
Anthracene	PHN	Ave	586210 7517262	1361994	2477875	5206650	6484175	4.00 80.0	10.0	20.0	40.0	60.0
Carbazole	PHN	Ave	529545 7593677	1236329	2311908	5006806	6339461	4.00 80.0	10.0	20.0	40.0	60.0
Di-n-butyl phthalate	PHN	Ave	551507 8222722	1351338	2591653	5712491	7072072	4.00 80.0	10.0	20.0	40.0	60.0
Fluoranthene	PHN	Ave	575432 8553319	1378284	2635581	5742948	7170832	4.00 80.0	10.0	20.0	40.0	60.0
Pyrene	CRY	Ave	601432 8869371	1431041	2735931	5873926	7448408	4.00 80.0	10.0	20.0	40.0	60.0
3,3'-Dimethylbenzidine	CRY	Qua	39735 1219976	126438	342725	901045	1148341	4.00 80.0	10.0	20.0	40.0	60.0
Butyl benzyl phthalate	CRY	Ave	195589 3999786	501474	1042453	2449852	3248940	4.00 80.0	10.0	20.0	40.0	60.0
3,3'-Dichlorobenzidine	CRY	Ave	96885 2325909	267162	587135	1399222	1973583	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[a]anthracene	CRY	Ave	447021 8251757	1099771	2273985	5101068	6873284	4.00 80.0	10.0	20.0	40.0	60.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	234429 4307821	599074	1216414	2737414	3514167	4.00 80.0	10.0	20.0	40.0	60.0
Chrysene	CRY	Ave	445708 7279509	1122511	2220273	4630378	6093647	4.00 80.0	10.0	20.0	40.0	60.0
Di-n-octyl phthalate	PRY	Qua	277704 7709584	763900	1716052	4368185	6119521	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[b]fluoranthene	PRY	Lin	304515 5682198	782775	1704846	3702308	5121762	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[k]fluoranthene	PRY	Ave	343588 6189360	921150	1889530	3764190	5222586	4.00 80.0	10.0	20.0	40.0	60.0
Benzo[a]pyrene	PRY	Ave	241571 4280823	654259	1374141	2803994	3736366	4.00 80.0	10.0	20.0	40.0	60.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	162769 3050151	451964	903141	1577677	2282419	4.00 80.0	10.0	20.0	40.0	60.0
Dibenz(a,h)anthracene	PRY	Ave	172057 3211653	471464	965265	1700554	2420282	4.00 80.0	10.0	20.0	40.0	60.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1 Analy Batch No.: 34488

SDG No.:

Instrument ID: MSZ GC Column: RXi-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2009 07:33 Calibration End Date: 12/21/2009 09:54 Calibration ID: 6068

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[g,h,i]perylene	PRY	Ave	182674 3224606	486618	926578	1547916	2352710	4.00 80.0	10.0	20.0	40.0	60.0
2-Fluorophenol	DCB	Ave	117971 2163845	299500	586642	1237775	1736982	4.00 80.0	10.0	20.0	40.0	60.0
Phenol-d5	DCB	Ave	167770 2643741	421528	808820	1576709	2158473	4.00 80.0	10.0	20.0	40.0	60.0
Nitrobenzene-d5	NPT	Ave	153178 2626459	382279	746646	1535906	2139049	4.00 80.0	10.0	20.0	40.0	60.0
2-Fluorobiphenyl	ANT	Ave	408942 5126957	975296	1765986	3419129	4369795	4.00 80.0	10.0	20.0	40.0	60.0
2,4,6-Tribromophenol	ANT	Ave	122698 878449	304190	353810	529482	712704	10.0 80.0	25.0	30.0	40.0	60.0
Terphenyl-d14	CRY	Ave	367578 5652075	883885	1721657	3823251	4807439	4.00 80.0	10.0	20.0	40.0	60.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14560.D
Lab Smp Id: ICIS-398055 Client Smp ID: ICIS-398055
Inj Date : 21-DEC-2009 07:33
Operator : S.Jonas Inst ID: msz.i
Smp Info : ICIS-398055
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:18 msz.i Quant Type: ISTD
Cal Date : 21-DEC-2009 09:54 Cal File: Z14565.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.086	5.086	(1.000)	522749	20.0000	
$ 2	2-Fluorophenol	112	3.633	3.633	(0.714)	1237775	40.0000	40
$ 3	Phenol-d5	99	4.733	4.733	(0.931)	1576709	40.0000	38
4	Pyridine	52	1.804	1.804	(0.355)	231094	40.0000	40
5	N-Nitrosodimethylamine	42	1.792	1.792	(0.352)	167537	40.0000	40
6	Cyclohexanone	42	3.874	3.874	(0.762)	462416	40.0000	42
128	Benzaldehyde	77	4.604	4.604	(0.905)	152073	40.0000	38
7	Phenol	94	4.751	4.751	(0.934)	1747195	40.0000	39
8	Aniline	93	4.733	4.733	(0.931)	1892271	40.0000	39
9	bis(2-Chloroethyl)ether	63	4.827	4.827	(0.949)	930770	40.0000	39
10	2-Chlorophenol	128	4.863	4.863	(0.956)	1468058	40.0000	39
11	1,3-Dichlorobenzene	146	5.021	5.021	(0.987)	1541382	40.0000	39
12	1,4-Dichlorobenzene	146	5.104	5.104	(1.003)	1553910	40.0000	39
13	Benzyl alcohol	108	5.263	5.263	(1.035)	831482	40.0000	38
14	1,2-Dichlorobenzene	146	5.269	5.269	(1.036)	1405796	40.0000	39
15	2,2'-oxybis(1-Chloropropane)	45	5.416	5.416	(1.065)	1413302	40.0000	38
16	2-Methylphenol	108	5.398	5.398	(1.061)	1293495	40.0000	38
92	Acetophenone	105	5.539	5.539	(1.089)	1929900	40.0000	38
17	Hexachloroethane	117	5.633	5.633	(1.108)	650702	40.0000	39
18	N-Nitroso-di-n-propylamine	70	5.557	5.557	(1.093)	873282	40.0000	38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.569	5.569	(1.095)	1308570	40.0000	38
*	20 Naphthalene-d8	136	6.457	6.457	(1.000)	2340710	20.0000	
$	21 Nitrobenzene-d5	82	5.692	5.692	(0.882)	1535906	40.0000	40
	22 Nitrobenzene	77	5.716	5.716	(0.885)	1446198	40.0000	39
	23 Isophorone	82	5.980	5.980	(0.926)	2661251	40.0000	39
	24 2-Nitrophenol	139	6.057	6.057	(0.938)	827851	40.0000	41
	25 2,4-Dimethylphenol	122	6.133	6.133	(0.950)	1318191	40.0000	39
	26 Benzoic Acid	122	6.280	6.280	(0.973)	853416	40.0000	43(M)
	27 Bis(2-Chloroethoxy)methane	93	6.227	6.227	(0.964)	1735826	40.0000	38
	28 2,4-Dichlorophenol	162	6.321	6.321	(0.979)	1229122	40.0000	39
	29 1,2,4-Trichlorobenzene	180	6.404	6.404	(0.992)	1356699	40.0000	38
	30 Naphthalene	128	6.480	6.480	(1.004)	4466297	40.0000	38
	31 4-Chloroaniline	127	6.551	6.551	(1.015)	1929085	40.0000	39
	32 Hexachlorobutadiene	225	6.633	6.633	(1.027)	810122	40.0000	38
	129 Caprolactam	113	6.957	6.957	(1.077)	508209	40.0000	42(H)
	33 4-Chloro-3-methylphenol	107	7.092	7.092	(1.098)	1370842	40.0000	40
	34 2-Methylnaphthalene	142	7.227	7.227	(1.119)	2995325	40.0000	38
*	35 Acenaphthene-d10	164	8.339	8.339	(1.000)	1482582	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.192	7.192	(1.414)	1278146	40.0000	38
	37 Hexachlorocyclopentadiene	237	7.410	7.410	(0.889)	781349	40.0000	43
	38 2,4,6-Trichlorophenol	196	7.539	7.539	(0.904)	1005597	40.0000	39
	39 2,4,5-Trichlorophenol	196	7.574	7.574	(0.908)	1033967	40.0000	40
$	40 2-Fluorobiphenyl	172	7.633	7.633	(0.915)	3419129	40.0000	38
	130 1,1'-Biphenyl	154	7.733	7.733	(0.927)	3540784	40.0000	35
	41 2-Chloronaphthalene	162	7.745	7.745	(0.929)	2797765	40.0000	37
	42 2-Nitroaniline	65	7.862	7.862	(0.943)	927965	40.0000	41
	43 Acenaphthylene	152	8.186	8.186	(0.982)	5109259	40.0000	38
	44 Dimethylphthalate	163	8.074	8.074	(0.968)	3254879	40.0000	39
	45 2,6-Dinitrotoluene	165	8.127	8.127	(0.975)	802382	40.0000	42
	46 Acenaphthene	153	8.374	8.374	(1.004)	3111020	40.0000	38
	47 3-Nitroaniline	138	8.304	8.304	(0.996)	971854	40.0000	42
	48 2,4-Dinitrophenol	184	8.409	8.409	(1.008)	359954	40.0000	41
	49 Dibenzofuran	168	8.562	8.562	(1.027)	4269327	40.0000	38
	50 2,4-Dinitrotoluene	165	8.551	8.551	(1.025)	995794	40.0000	41
	51 4-Nitrophenol	109	8.492	8.492	(1.018)	461071	40.0000	43
	52 Fluorene	166	8.927	8.927	(1.071)	3230311	40.0000	38
	53 4-Chlorophenyl-phenylether	204	8.933	8.933	(1.071)	1517248	40.0000	37
	54 Diethylphthalate	149	8.827	8.827	(1.059)	3434129	40.0000	40
	55 4-Nitroaniline	138	8.962	8.962	(1.075)	972603	40.0000	42
$	56 2,4,6-Tribromophenol	330	9.186	9.186	(1.102)	529482	40.0000	41
*	57 Phenanthrene-d10	188	9.921	9.921	(1.000)	2573169	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.992	8.992	(0.906)	562312	40.0000	44
	59 N-Nitrosodiphenylamine (1)	169	9.062	9.062	(0.913)	2652145	40.0000	38
	60 1,2-Diphenylhydrazine	77	9.104	9.104	(0.918)	3557944	40.0000	38
	61 4-Bromophenyl-phenylether	248	9.451	9.451	(0.953)	992690	40.0000	39
	131 Atrazine	200	9.645	9.645	(0.972)	912387	40.0000	39
	62 Hexachlorobenzene	284	9.521	9.521	(0.960)	1066716	40.0000	38
	63 Pentachlorophenol	266	9.727	9.727	(0.980)	627456	40.0000	42
	64 Phenanthrene	178	9.951	9.951	(1.003)	5053075	40.0000	38
	65 Carbazole	167	10.180	10.180	(1.026)	5006806	40.0000	39
	66 Anthracene	178	10.004	10.004	(1.008)	5206650	40.0000	38
	67 Di-n-butylphthalate	149	10.568	10.568	(1.065)	5712491	40.0000	41
	68 Fluoranthene	202	11.221	11.221	(1.131)	5742948	40.0000	40
*	70 Chrysene-d12	240	12.903	12.903	(1.000)	2277561	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
71	Benzidine	184	9.809	9.809	(0.760)	153989	40.0000	39
72	Pyrene	202	11.462	11.462	(0.888)	5873926	40.0000	39
$ 73	Terphenyl-d14	244	11.633	11.633	(0.902)	3823251	40.0000	40
74	Butylbenzylphthalate	149	12.186	12.186	(0.944)	2449852	40.0000	42
124	3,3'-Dimethylbenzidine	212	12.162	12.162	(0.943)	901045	40.0000	44
75	3,3'-Dichlorobenzidine	252	12.856	12.856	(0.996)	1399222	40.0000	42
76	Benzo(a)anthracene	228	12.886	12.886	(0.999)	5101068	40.0000	40
77	Chrysene	228	12.939	12.939	(1.003)	4630378	40.0000	39
78	Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.002)	2737414	40.0000	41
* 79	Perylene-d12	264	15.256	15.256	(1.000)	1150184	20.0000	
80	Di-n-octylphthalate	149	13.933	13.933	(0.913)	4368185	40.0000	44
81	Benzo(b)fluoranthene	252	14.568	14.568	(0.955)	3702308	40.0000	42
82	Benzo(k)fluoranthene	252	14.615	14.615	(0.958)	3764190	40.0000	39
83	Benzo(a)pyrene	252	15.150	15.150	(0.993)	2803994	40.0000	41
84	Indeno(1,2,3-cd)pyrene	276	17.385	17.385	(1.140)	1577677	40.0000	35
85	Dibenzo(a,h)anthracene	278	17.444	17.444	(1.143)	1700554	40.0000	36
86	Benzo(g,h,i)perylene	276	17.944	17.944	(1.176)	1547916	40.0000	37
167	Simazine	201	9.615	9.615	(0.969)	524706	40.0000	41

QC Flag Legend

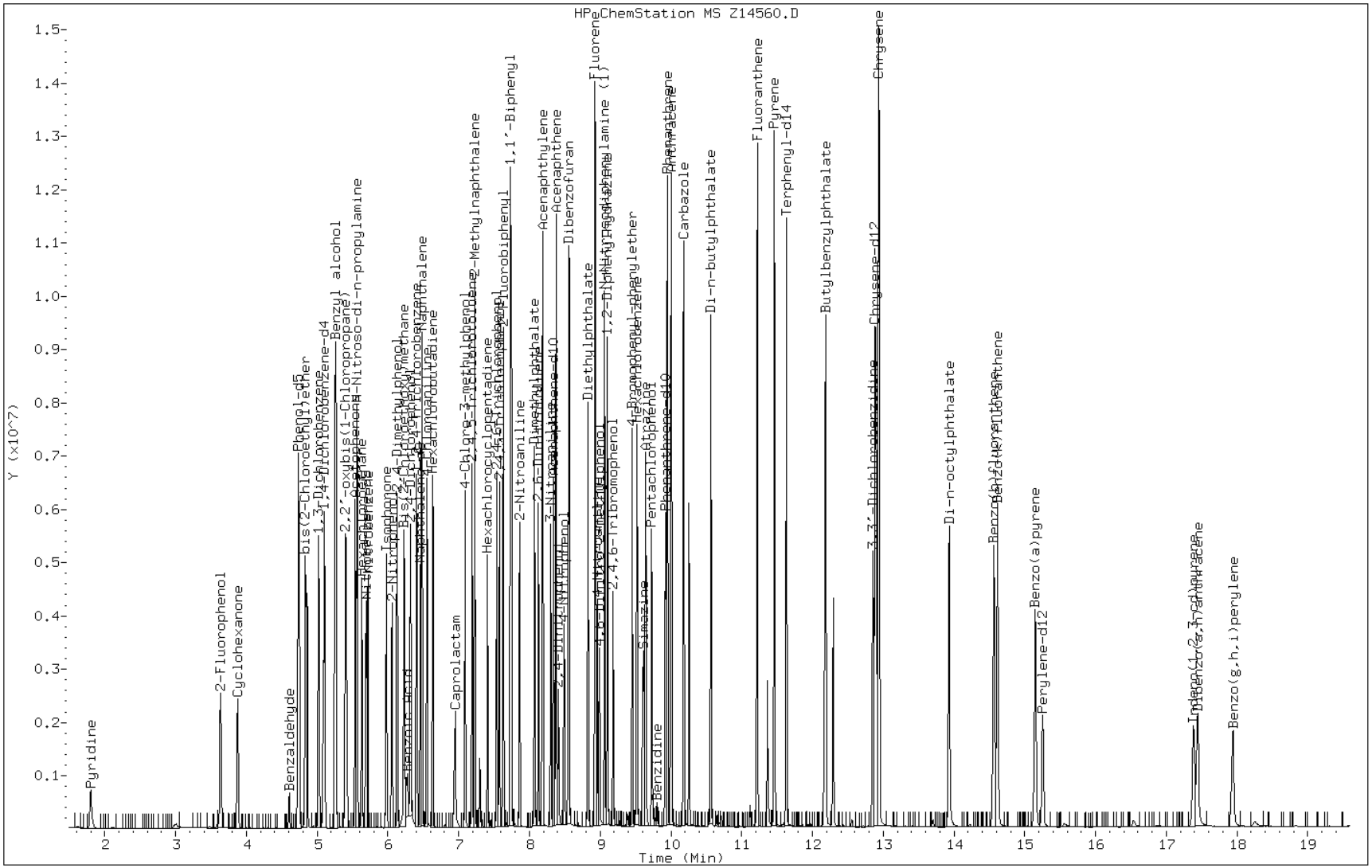
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: Z14560.D

Date: 21-DEC-2009 07:33

Client ID: ICIS-398055 Instrument: msz.i

Sample Info: ICIS-398055 Operator: S.Jonas



Manual Integration Report

Data File: Z14560.D
Inj. Date and Time: 21-DEC-2009 07:33
Instrument ID: msz.i
Client ID: ICIS-398055
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/21/2009

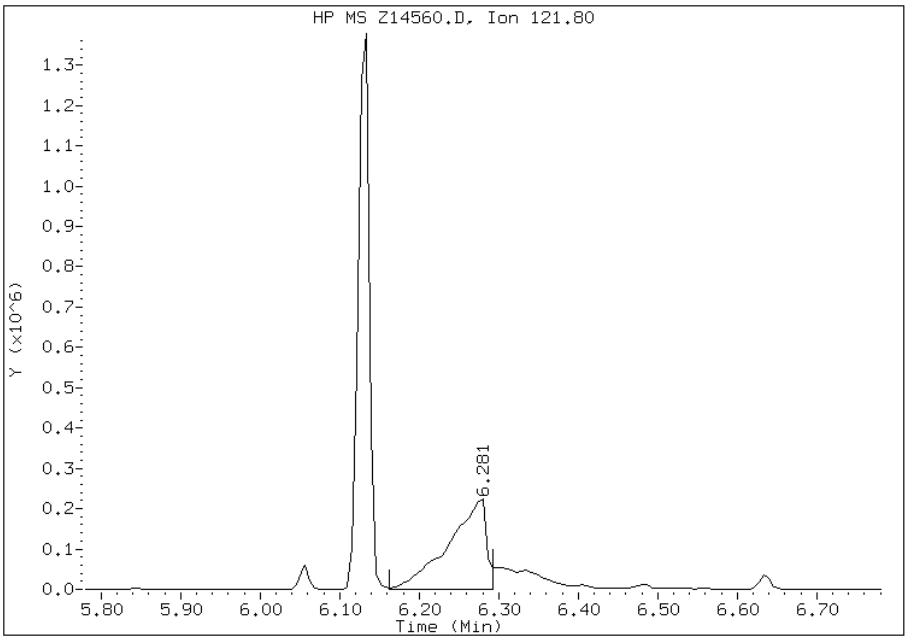
Processing Integration Results

RT: 6.28

Response: 734933

Amount: 40

Conc: 40



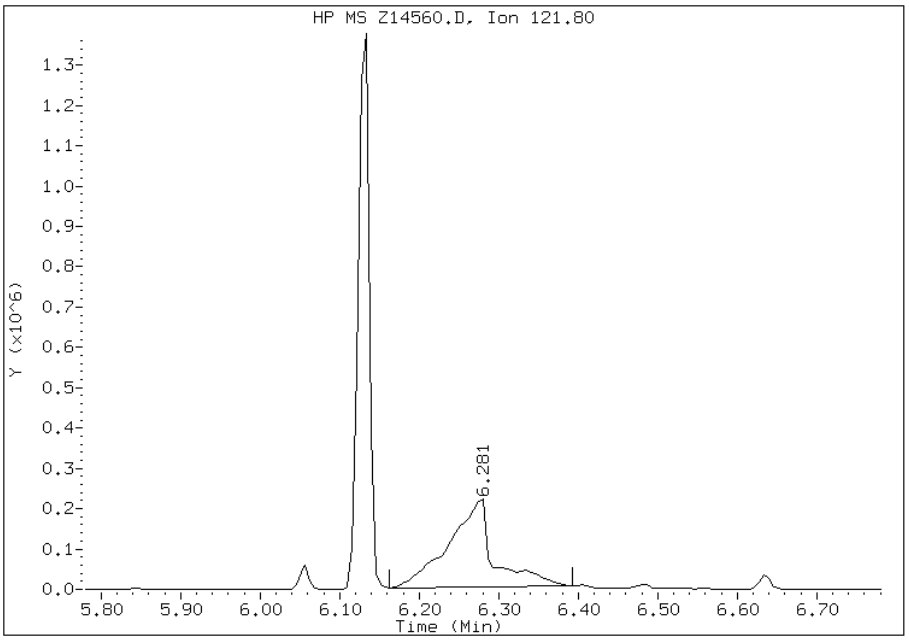
Manual Integration Results

RT: 6.28

Response: 853416

Amount: 43

Conc: 43



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14561.D
Lab Smp Id: IC-395382 Client Smp ID: IC-395382
Inj Date : 21-DEC-2009 08:01
Operator : S.Jonas Inst ID: msz.i
Smp Info : IC-395382;4/10
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:16 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 08:01 Cal File: Z14561.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.086	5.086	(1.000)	502939	20.0000	
$ 2	2-Fluorophenol	112	3.633	3.633	(0.714)	117971	4.00000	4
$ 3	Phenol-d5	99	4.722	4.722	(0.928)	167770	4.00000	4
4	Pyridine	52	1.816	1.816	(0.357)	21214	4.00000	4
5	N-Nitrosodimethylamine	42	1.798	1.798	(0.354)	15310	4.00000	4
6	Cyclohexanone	42	3.875	3.875	(0.762)	47104	4.00000	4
128	Benzaldehyde	77	4.604	4.604	(0.905)	5309	4.00000	1
7	Phenol	94	4.733	4.733	(0.931)	179176	4.00000	4
8	Aniline	93	4.727	4.727	(0.929)	197481	4.00000	4
9	bis(2-Chloroethyl)ether	63	4.822	4.822	(0.948)	99578	4.00000	4
10	2-Chlorophenol	128	4.851	4.851	(0.954)	146904	4.00000	4
11	1,3-Dichlorobenzene	146	5.022	5.022	(0.987)	158674	4.00000	4
12	1,4-Dichlorobenzene	146	5.104	5.104	(1.003)	161012	4.00000	4
13	Benzyl alcohol	108	5.251	5.251	(1.032)	95894	4.00000	5
14	1,2-Dichlorobenzene	146	5.263	5.263	(1.035)	159484	4.00000	5
15	2,2'-oxybis(1-Chloropropane)	45	5.410	5.410	(1.064)	161356	4.00000	5
16	2-Methylphenol	108	5.386	5.386	(1.059)	138814	4.00000	4
92	Acetophenone	105	5.527	5.527	(1.087)	209335	4.00000	4
17	Hexachloroethane	117	5.627	5.627	(1.106)	66599	4.00000	4
18	N-Nitroso-di-n-propylamine	70	5.545	5.545	(1.090)	99496	4.00000	4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
19	4-Methylphenol	108	5.557	5.557	(1.093)	146865	4.00000	4
* 20	Naphthalene-d8	136	6.457	6.457	(1.000)	2316032	20.0000	
$ 21	Nitrobenzene-d5	82	5.686	5.686	(0.881)	153178	4.00000	4
22	Nitrobenzene	77	5.704	5.704	(0.883)	149318	4.00000	4
23	Isophorone	82	5.969	5.969	(0.924)	286211	4.00000	4
24	2-Nitrophenol	139	6.051	6.051	(0.937)	72050	4.00000	4
25	2,4-Dimethylphenol	122	6.121	6.121	(0.948)	140898	4.00000	4
26	Benzoic Acid	122	6.216	6.216	(0.963)	118797	10.0000	7
27	Bis(2-Chloroethoxy)methane	93	6.221	6.221	(0.964)	196315	4.00000	4
28	2,4-Dichlorophenol	162	6.310	6.310	(0.977)	131894	4.00000	4
29	1,2,4-Trichlorobenzene	180	6.398	6.398	(0.991)	156826	4.00000	4
30	Naphthalene	128	6.474	6.474	(1.003)	527908	4.00000	5
31	4-Chloroaniline	127	6.545	6.545	(1.014)	200469	4.00000	4
32	Hexachlorobutadiene	225	6.633	6.633	(1.027)	93991	4.00000	4
129	Caprolactam	113	6.892	6.892	(1.067)	43963	4.00000	3
33	4-Chloro-3-methylphenol	107	7.080	7.080	(1.097)	141080	4.00000	4
34	2-Methylnaphthalene	142	7.221	7.221	(1.118)	343650	4.00000	4
* 35	Acenaphthene-d10	164	8.333	8.333	(1.000)	1473607	20.0000	
36	2,4,5-Trichlorotoluene	159	7.186	7.186	(1.413)	141149	4.00000	4
37	Hexachlorocyclopentadiene	237	7.404	7.404	(0.888)	51353	4.00000	3
38	2,4,6-Trichlorophenol	196	7.533	7.533	(0.904)	104327	4.00000	4
39	2,4,5-Trichlorophenol	196	7.568	7.568	(0.908)	261656	10.0000	10
$ 40	2-Fluorobiphenyl	172	7.627	7.627	(0.915)	408942	4.00000	5
130	1,1'-Biphenyl	154	7.727	7.727	(0.927)	445693	4.00000	4
41	2-Chloronaphthalene	162	7.739	7.739	(0.929)	344011	4.00000	5
42	2-Nitroaniline	65	7.851	7.851	(0.942)	86285	4.00000	4
43	Acenaphthylene	152	8.180	8.180	(0.982)	592006	4.00000	4
44	Dimethylphthalate	163	8.063	8.063	(0.968)	357140	4.00000	4
45	2,6-Dinitrotoluene	165	8.115	8.115	(0.974)	70480	4.00000	4
46	Acenaphthene	153	8.368	8.368	(1.004)	369050	4.00000	5
47	3-Nitroaniline	138	8.292	8.292	(0.995)	79632	4.00000	3
48	2,4-Dinitrophenol	184	8.404	8.404	(1.008)	28531	10.0000	14
49	Dibenzofuran	168	8.551	8.551	(1.026)	530420	4.00000	5
50	2,4-Dinitrotoluene	165	8.545	8.545	(1.025)	95838	4.00000	4
51	4-Nitrophenol	109	8.474	8.474	(1.017)	93140	10.0000	9
52	Fluorene	166	8.921	8.921	(1.071)	401814	4.00000	5
53	4-Chlorophenyl-phenylether	204	8.927	8.927	(1.071)	199556	4.00000	5
54	Diethylphthalate	149	8.815	8.815	(1.058)	359985	4.00000	4
55	4-Nitroaniline	138	8.939	8.939	(1.073)	86520	4.00000	6
$ 56	2,4,6-Tribromophenol	330	9.174	9.174	(1.101)	122698	10.0000	10
* 57	Phenanthrene-d10	188	9.921	9.921	(1.000)	2545237	20.0000	
58	4,6-Dinitro-2-methylphenol	198	8.974	8.974	(0.905)	74311	10.0000	6
59	N-Nitrosodiphenylamine (1)	169	9.051	9.051	(0.912)	281463	4.00000	4
60	1,2-Diphenylhydrazine	77	9.092	9.092	(0.916)	401492	4.00000	4
61	4-Bromophenyl-phenylether	248	9.445	9.445	(0.952)	102668	4.00000	4
131	Atrazine	200	9.627	9.627	(0.970)	90322	4.00000	4
62	Hexachlorobenzene	284	9.515	9.515	(0.959)	114626	4.00000	4
63	Pentachlorophenol	266	9.721	9.721	(0.980)	124303	10.0000	8
64	Phenanthrene	178	9.945	9.945	(1.002)	576462	4.00000	4
65	Carbazole	167	10.168	10.168	(1.025)	529545	4.00000	4
66	Anthracene	178	9.998	9.998	(1.008)	586210	4.00000	4
67	Di-n-butylphthalate	149	10.562	10.562	(1.065)	551507	4.00000	4
68	Fluoranthene	202	11.215	11.215	(1.130)	575432	4.00000	4
* 70	Chrysene-d12	240	12.892	12.892	(1.000)	2156643	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
72	Pyrene	202	11.451	11.451	(0.888)	601432	4.00000	4
$ 73	Terphenyl-d14	244	11.627	11.627	(0.902)	367578	4.00000	4
74	Butylbenzylphthalate	149	12.180	12.180	(0.945)	195589	4.00000	4
75	3,3'-Dichlorobenzidine	252	12.845	12.845	(0.996)	96885	4.00000	3
76	Benzo(a)anthracene	228	12.880	12.880	(0.999)	447021	4.00000	4
77	Chrysene	228	12.927	12.927	(1.003)	445708	4.00000	4
78	Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.003)	234429	4.00000	4
* 79	Perylene-d12	264	15.244	15.244	(1.000)	1232017	20.0000	
80	Di-n-octylphthalate	149	13.927	13.927	(0.914)	277704	4.00000	3
81	Benzo(b)fluoranthene	252	14.550	14.550	(0.954)	304515	4.00000	3
82	Benzo(k)fluoranthene	252	14.597	14.597	(0.958)	343588	4.00000	3
83	Benzo(a)pyrene	252	15.133	15.133	(0.993)	241571	4.00000	3
84	Indeno(1,2,3-cd)pyrene	276	17.368	17.368	(1.139)	162769	4.00000	3
85	Dibenzo(a,h)anthracene	278	17.427	17.427	(1.143)	172057	4.00000	3
86	Benzo(g,h,i)perylene	276	17.921	17.921	(1.176)	182674	4.00000	3
167	Simazine	201	9.592	9.592	(0.967)	45015	4.00000	8(H)

QC Flag Legend

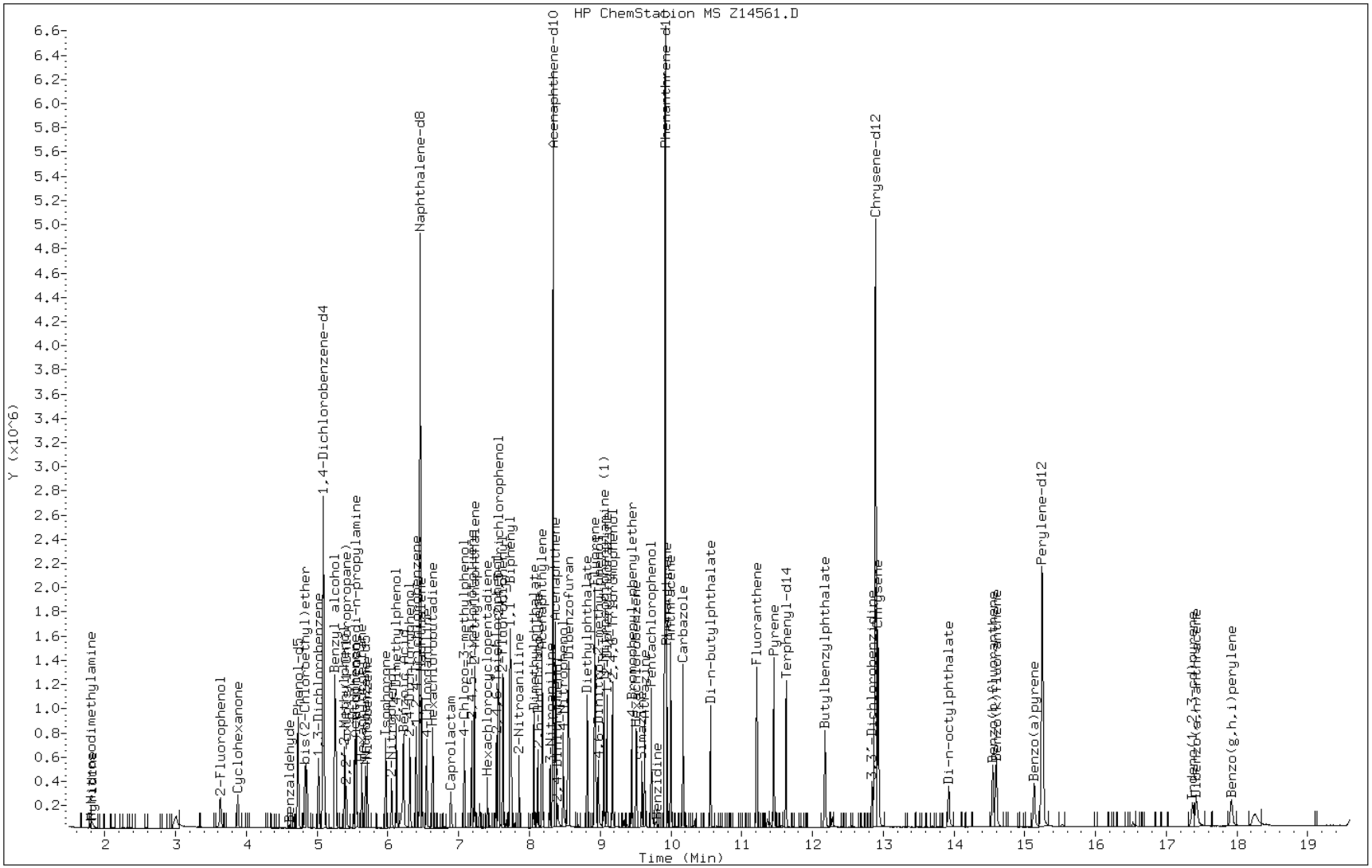
H - Operator selected an alternate compound hit.

Data File: Z14561.D

Date: 21-DEC-2009 08:01

Client ID: IC-395382 Instrument: msz.i

Sample Info: IC-395382;4/10 Operator: S.Jonas



TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14562.D
Lab Smp Id: IC-395383 Client Smp ID: IC-395383
Inj Date : 21-DEC-2009 08:30
Operator : S.Jonas Inst ID: msz.i
Smp Info : IC-395383;10/25
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:16 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 08:30 Cal File: Z14562.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.086	5.086	(1.000)	502621	20.0000	
$ 2	2-Fluorophenol	112	3.633	3.633	(0.714)	299500	10.0000	10
$ 3	Phenol-d5	99	4.727	4.727	(0.929)	421528	10.0000	11
4	Pyridine	52	1.810	1.810	(0.356)	53712	10.0000	10
5	N-Nitrosodimethylamine	42	1.792	1.792	(0.352)	40781	10.0000	10
6	Cyclohexanone	42	3.874	3.874	(0.762)	119517	10.0000	11
128	Benzaldehyde	77	4.604	4.604	(0.905)	39500	10.0000	10
7	Phenol	94	4.739	4.739	(0.932)	455680	10.0000	11
8	Aniline	93	4.733	4.733	(0.931)	506262	10.0000	11
9	bis(2-Chloroethyl)ether	63	4.821	4.821	(0.948)	242516	10.0000	11
10	2-Chlorophenol	128	4.857	4.857	(0.955)	363531	10.0000	10
11	1,3-Dichlorobenzene	146	5.021	5.021	(0.987)	397566	10.0000	10
12	1,4-Dichlorobenzene	146	5.104	5.104	(1.003)	400664	10.0000	10
13	Benzyl alcohol	108	5.251	5.251	(1.032)	231909	10.0000	11
14	1,2-Dichlorobenzene	146	5.262	5.262	(1.035)	386050	10.0000	11
15	2,2'-oxybis(1-Chloropropane)	45	5.410	5.410	(1.064)	385820	10.0000	11
16	2-Methylphenol	108	5.392	5.392	(1.060)	349185	10.0000	11
92	Acetophenone	105	5.527	5.527	(1.087)	511663	10.0000	11
17	Hexachloroethane	117	5.627	5.627	(1.106)	168602	10.0000	10
18	N-Nitroso-di-n-propylamine	70	5.545	5.545	(1.090)	242692	10.0000	11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	19 4-Methylphenol	108	5.557	5.557	(1.093)	367878	10.0000	11
*	20 Naphthalene-d8	136	6.456	6.456	(1.000)	2270531	20.0000	
$	21 Nitrobenzene-d5	82	5.686	5.686	(0.881)	382279	10.0000	10
	22 Nitrobenzene	77	5.704	5.704	(0.883)	373065	10.0000	10
	23 Isophorone	82	5.968	5.968	(0.924)	694779	10.0000	10
	24 2-Nitrophenol	139	6.051	6.051	(0.937)	194750	10.0000	10
	25 2,4-Dimethylphenol	122	6.121	6.121	(0.948)	350201	10.0000	11
	26 Benzoic Acid	122	6.257	6.257	(0.969)	458182	25.0000	27
	27 Bis(2-Chloroethoxy)methane	93	6.221	6.221	(0.964)	477274	10.0000	11
	28 2,4-Dichlorophenol	162	6.309	6.309	(0.977)	331066	10.0000	11
	29 1,2,4-Trichlorobenzene	180	6.404	6.404	(0.992)	382074	10.0000	11
	30 Naphthalene	128	6.474	6.474	(1.003)	1276512	10.0000	11
	31 4-Chloroaniline	127	6.545	6.545	(1.014)	514971	10.0000	11
	32 Hexachlorobutadiene	225	6.633	6.633	(1.027)	231737	10.0000	11
	129 Caprolactam	113	6.915	6.915	(1.071)	112990	10.0000	9
	33 4-Chloro-3-methylphenol	107	7.080	7.080	(1.097)	359906	10.0000	11
	34 2-Methylnaphthalene	142	7.221	7.221	(1.118)	839763	10.0000	11
*	35 Acenaphthene-d10	164	8.339	8.339	(1.000)	1446265	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.186	7.186	(1.413)	353100	10.0000	11
	37 Hexachlorocyclopentadiene	237	7.403	7.403	(0.888)	158579	10.0000	9
	38 2,4,6-Trichlorophenol	196	7.533	7.533	(0.903)	262660	10.0000	10
	39 2,4,5-Trichlorophenol	196	7.568	7.568	(0.908)	644472	25.0000	26
$	40 2-Fluorobiphenyl	172	7.627	7.627	(0.915)	975296	10.0000	11
	130 1,1'-Biphenyl	154	7.727	7.727	(0.927)	1073784	10.0000	11
	41 2-Chloronaphthalene	162	7.739	7.739	(0.928)	828073	10.0000	11
	42 2-Nitroaniline	65	7.856	7.856	(0.942)	225651	10.0000	10
	43 Acenaphthylene	152	8.180	8.180	(0.981)	1441548	10.0000	11
	44 Dimethylphthalate	163	8.062	8.062	(0.967)	845852	10.0000	10
	45 2,6-Dinitrotoluene	165	8.115	8.115	(0.973)	183626	10.0000	10
	46 Acenaphthene	153	8.368	8.368	(1.004)	872929	10.0000	11
	47 3-Nitroaniline	138	8.292	8.292	(0.994)	217666	10.0000	10
	48 2,4-Dinitrophenol	184	8.403	8.403	(1.008)	133214	25.0000	23
	49 Dibenzofuran	168	8.556	8.556	(1.026)	1249211	10.0000	11
	50 2,4-Dinitrotoluene	165	8.545	8.545	(1.025)	248414	10.0000	11
	51 4-Nitrophenol	109	8.480	8.480	(1.017)	246589	25.0000	23
	52 Fluorene	166	8.921	8.921	(1.070)	983875	10.0000	12
	53 4-Chlorophenyl-phenylether	204	8.927	8.927	(1.071)	471538	10.0000	12
	54 Diethylphthalate	149	8.821	8.821	(1.058)	873368	10.0000	10
	55 4-Nitroaniline	138	8.945	8.945	(1.073)	204112	10.0000	14
$	56 2,4,6-Tribromophenol	330	9.180	9.180	(1.101)	304190	25.0000	24
*	57 Phenanthrene-d10	188	9.921	9.921	(1.000)	2400184	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.980	8.980	(0.905)	269233	25.0000	23
	59 N-Nitrosodiphenylamine (1)	169	9.056	9.056	(0.913)	678458	10.0000	10
	60 1,2-Diphenylhydrazine	77	9.097	9.097	(0.917)	967019	10.0000	11
	61 4-Bromophenyl-phenylether	248	9.450	9.450	(0.953)	251300	10.0000	11
	131 Atrazine	200	9.633	9.633	(0.971)	211366	10.0000	10
	62 Hexachlorobenzene	284	9.515	9.515	(0.959)	277282	10.0000	11
	63 Pentachlorophenol	266	9.721	9.721	(0.980)	331161	25.0000	24
	64 Phenanthrene	178	9.945	9.945	(1.002)	1331365	10.0000	11
	65 Carbazole	167	10.174	10.174	(1.025)	1236329	10.0000	10
	66 Anthracene	178	9.997	9.997	(1.008)	1361994	10.0000	11
	67 Di-n-butylphthalate	149	10.562	10.562	(1.065)	1351338	10.0000	10
	68 Fluoranthene	202	11.215	11.215	(1.130)	1378284	10.0000	10
*	70 Chrysene-d12	240	12.891	12.891	(1.000)	2020676	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
71	Benzidine	184	9.809	9.809	(0.761)	36118	10.0000	10
72	Pyrene	202	11.456	11.456	(0.889)	1431041	10.0000	11
$ 73	Terphenyl-d14	244	11.627	11.627	(0.902)	883885	10.0000	10
74	Butylbenzylphthalate	149	12.180	12.180	(0.945)	501474	10.0000	10
124	3,3'-Dimethylbenzidine	212	12.162	12.162	(0.943)	126438	10.0000	8
75	3,3'-Dichlorobenzidine	252	12.844	12.844	(0.996)	267162	10.0000	9
76	Benzo(a)anthracene	228	12.880	12.880	(0.999)	1099771	10.0000	10
77	Chrysene	228	12.927	12.927	(1.003)	1122511	10.0000	11
78	Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.003)	599074	10.0000	10
* 79	Perylene-d12	264	15.250	15.250	(1.000)	1206365	20.0000	
80	Di-n-octylphthalate	149	13.927	13.927	(0.913)	763900	10.0000	7
81	Benzo(b)fluoranthene	252	14.550	14.550	(0.954)	782775	10.0000	8
82	Benzo(k)fluoranthene	252	14.597	14.597	(0.957)	921150	10.0000	9
83	Benzo(a)pyrene	252	15.138	15.138	(0.993)	654259	10.0000	9
84	Indeno(1,2,3-cd)pyrene	276	17.373	17.373	(1.139)	451964	10.0000	10
85	Dibenzo(a,h)anthracene	278	17.426	17.426	(1.143)	471464	10.0000	10
86	Benzo(g,h,i)perylene	276	17.926	17.926	(1.175)	486618	10.0000	11
167	Simazine	201	9.597	9.597	(0.967)	114746	10.0000	17(H)

QC Flag Legend

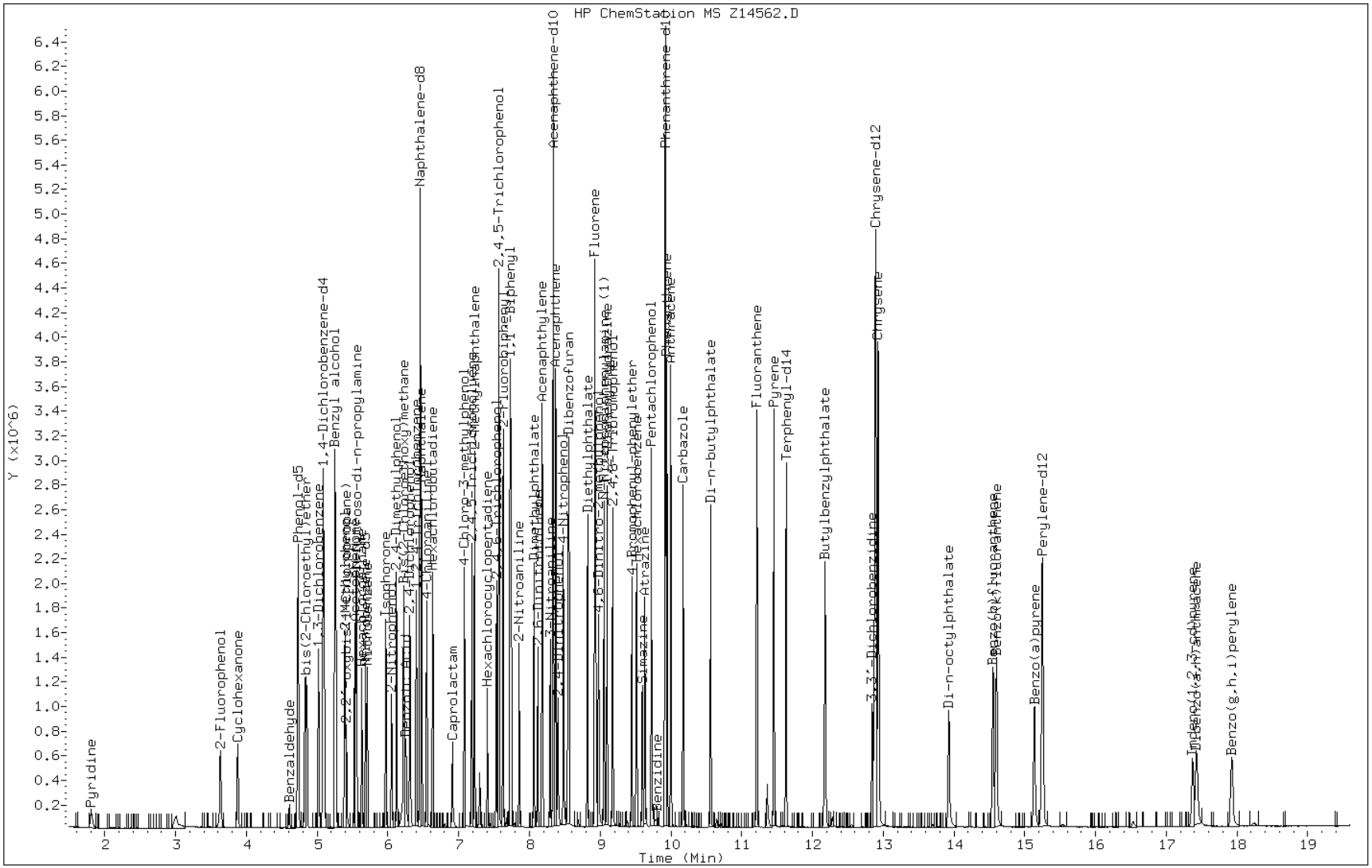
H - Operator selected an alternate compound hit.

Data File: Z14562.D

Date: 21-DEC-2009 08:30

Client ID: IC-395383 Instrument: msz.i

Sample Info: IC-395383;10/25 Operator: S.Jonas



TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14563.D
Lab Smp Id: IC-395384 Client Smp ID: IC-395384
Inj Date : 21-DEC-2009 08:58
Operator : S.Jonas Inst ID: msz.i
Smp Info : IC-395384;20/30
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:16 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 08:58 Cal File: Z14563.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.086	5.086	(1.000)	481303	20.0000	
$ 2	2-Fluorophenol	112	3.633	3.633	(0.714)	586642	20.0000	20
$ 3	Phenol-d5	99	4.727	4.727	(0.929)	808820	20.0000	21
4	Pyridine	52	1.804	1.804	(0.355)	107186	20.0000	20
5	N-Nitrosodimethylamine	42	1.786	1.786	(0.351)	79040	20.0000	20
6	Cyclohexanone	42	3.875	3.875	(0.762)	227707	20.0000	22
128	Benzaldehyde	77	4.604	4.604	(0.905)	113656	20.0000	31
7	Phenol	94	4.739	4.739	(0.932)	884272	20.0000	21
8	Aniline	93	4.733	4.733	(0.931)	958295	20.0000	21
9	bis(2-Chloroethyl)ether	63	4.822	4.822	(0.948)	460089	20.0000	21
10	2-Chlorophenol	128	4.857	4.857	(0.955)	714503	20.0000	21
11	1,3-Dichlorobenzene	146	5.022	5.022	(0.987)	761853	20.0000	21
12	1,4-Dichlorobenzene	146	5.104	5.104	(1.003)	766773	20.0000	21
13	Benzyl alcohol	108	5.257	5.257	(1.034)	439933	20.0000	22
14	1,2-Dichlorobenzene	146	5.269	5.269	(1.036)	733287	20.0000	22
15	2,2'-oxybis(1-Chloropropane)	45	5.410	5.410	(1.064)	728435	20.0000	21
16	2-Methylphenol	108	5.392	5.392	(1.060)	667697	20.0000	21
92	Acetophenone	105	5.533	5.533	(1.088)	970783	20.0000	21
17	Hexachloroethane	117	5.627	5.627	(1.106)	327569	20.0000	21
18	N-Nitroso-di-n-propylamine	70	5.551	5.551	(1.091)	444782	20.0000	21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	19 4-Methylphenol	108	5.557	5.557	(1.093)	674094	20.0000	21
*	20 Naphthalene-d8	136	6.457	6.457	(1.000)	2186193	20.0000	
$	21 Nitrobenzene-d5	82	5.686	5.686	(0.881)	746646	20.0000	21
	22 Nitrobenzene	77	5.710	5.710	(0.884)	713062	20.0000	21
	23 Isophorone	82	5.969	5.969	(0.924)	1303689	20.0000	20
	24 2-Nitrophenol	139	6.051	6.051	(0.937)	394912	20.0000	21
	25 2,4-Dimethylphenol	122	6.127	6.127	(0.949)	668324	20.0000	21
	26 Benzoic Acid	122	6.263	6.263	(0.970)	577134	30.0000	35
	27 Bis(2-Chloroethoxy)methane	93	6.221	6.221	(0.964)	884402	20.0000	21
	28 2,4-Dichlorophenol	162	6.316	6.316	(0.978)	633793	20.0000	21
	29 1,2,4-Trichlorobenzene	180	6.404	6.404	(0.992)	706682	20.0000	21
	30 Naphthalene	128	6.480	6.480	(1.004)	2366984	20.0000	21
	31 4-Chloroaniline	127	6.545	6.545	(1.014)	970902	20.0000	21
	32 Hexachlorobutadiene	225	6.633	6.633	(1.027)	431934	20.0000	22
	129 Caprolactam	113	6.927	6.927	(1.073)	221531	20.0000	19
	33 4-Chloro-3-methylphenol	107	7.086	7.086	(1.097)	672869	20.0000	21
	34 2-Methylnaphthalene	142	7.227	7.227	(1.119)	1565535	20.0000	22
*	35 Acenaphthene-d10	164	8.339	8.339	(1.000)	1342642	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.186	7.186	(1.413)	652620	20.0000	21
	37 Hexachlorocyclopentadiene	237	7.404	7.404	(0.888)	339208	20.0000	20
	38 2,4,6-Trichlorophenol	196	7.533	7.533	(0.903)	492233	20.0000	21
	39 2,4,5-Trichlorophenol	196	7.568	7.568	(0.908)	734954	30.0000	31
$	40 2-Fluorobiphenyl	172	7.627	7.627	(0.915)	1765986	20.0000	22
	130 1,1'-Biphenyl	154	7.727	7.727	(0.927)	1934060	20.0000	21
	41 2-Chloronaphthalene	162	7.745	7.745	(0.929)	1488820	20.0000	22
	42 2-Nitroaniline	65	7.857	7.857	(0.942)	433142	20.0000	21
	43 Acenaphthylene	152	8.180	8.180	(0.981)	2619859	20.0000	22
	44 Dimethylphthalate	163	8.068	8.068	(0.968)	1556801	20.0000	21
	45 2,6-Dinitrotoluene	165	8.121	8.121	(0.974)	359618	20.0000	21
	46 Acenaphthene	153	8.374	8.374	(1.004)	1598359	20.0000	22
	47 3-Nitroaniline	138	8.298	8.298	(0.995)	430602	20.0000	21
	48 2,4-Dinitrophenol	184	8.404	8.404	(1.008)	174704	30.0000	27
	49 Dibenzofuran	168	8.557	8.557	(1.026)	2242360	20.0000	22
	50 2,4-Dinitrotoluene	165	8.545	8.545	(1.025)	477756	20.0000	22
	51 4-Nitrophenol	109	8.486	8.486	(1.018)	290485	30.0000	30
	52 Fluorene	166	8.921	8.921	(1.070)	1750626	20.0000	22
	53 4-Chlorophenyl-phenylether	204	8.927	8.927	(1.071)	839198	20.0000	23
	54 Diethylphthalate	149	8.821	8.821	(1.058)	1608421	20.0000	21
	55 4-Nitroaniline	138	8.945	8.945	(1.073)	411783	20.0000	30
$	56 2,4,6-Tribromophenol	330	9.180	9.180	(1.101)	353810	30.0000	30
*	57 Phenanthrene-d10	188	9.921	9.921	(1.000)	2242549	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.980	8.980	(0.905)	327206	30.0000	29
	59 N-Nitrosodiphenylamine (1)	169	9.057	9.057	(0.913)	1258868	20.0000	21
	60 1,2-Diphenylhydrazine	77	9.098	9.098	(0.917)	1784284	20.0000	22
	61 4-Bromophenyl-phenylether	248	9.451	9.451	(0.953)	460307	20.0000	21
	131 Atrazine	200	9.633	9.633	(0.971)	399570	20.0000	20
	62 Hexachlorobenzene	284	9.515	9.515	(0.959)	506125	20.0000	21
	63 Pentachlorophenol	266	9.721	9.721	(0.980)	387050	30.0000	30
	64 Phenanthrene	178	9.945	9.945	(1.002)	2431796	20.0000	21
	65 Carbazole	167	10.174	10.174	(1.025)	2311908	20.0000	21
	66 Anthracene	178	9.998	9.998	(1.008)	2477875	20.0000	21
	67 Di-n-butylphthalate	149	10.562	10.562	(1.065)	2591653	20.0000	21
	68 Fluoranthene	202	11.215	11.215	(1.130)	2635581	20.0000	21
*	70 Chrysene-d12	240	12.897	12.897	(1.000)	2008837	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
71	Benzidine	184	9.809	9.809	(0.761)	69162	20.0000	20
72	Pyrene	202	11.456	11.456	(0.888)	2735931	20.0000	21
$ 73	Terphenyl-d14	244	11.627	11.627	(0.901)	1721657	20.0000	21
74	Butylbenzylphthalate	149	12.180	12.180	(0.944)	1042453	20.0000	20
124	3,3'-Dimethylbenzidine	212	12.162	12.162	(0.943)	342725	20.0000	20
75	3,3'-Dichlorobenzidine	252	12.850	12.850	(0.996)	587135	20.0000	20
76	Benzo(a)anthracene	228	12.880	12.880	(0.999)	2273985	20.0000	20
77	Chrysene	228	12.933	12.933	(1.003)	2220273	20.0000	21
78	Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.003)	1216414	20.0000	21
* 79	Perylene-d12	264	15.250	15.250	(1.000)	1187227	20.0000	
80	Di-n-octylphthalate	149	13.927	13.927	(0.913)	1716052	20.0000	17
81	Benzo(b)fluoranthene	252	14.556	14.556	(0.954)	1704846	20.0000	19
82	Benzo(k)fluoranthene	252	14.603	14.603	(0.958)	1889530	20.0000	19
83	Benzo(a)pyrene	252	15.139	15.139	(0.993)	1374141	20.0000	19
84	Indeno(1,2,3-cd)pyrene	276	17.380	17.380	(1.140)	903141	20.0000	20
85	Dibenzo(a,h)anthracene	278	17.432	17.432	(1.143)	965265	20.0000	20
86	Benzo(g,h,i)perylene	276	17.932	17.932	(1.176)	926578	20.0000	22
167	Simazine	201	9.604	9.604	(0.968)	222604	20.0000	28(H)

QC Flag Legend

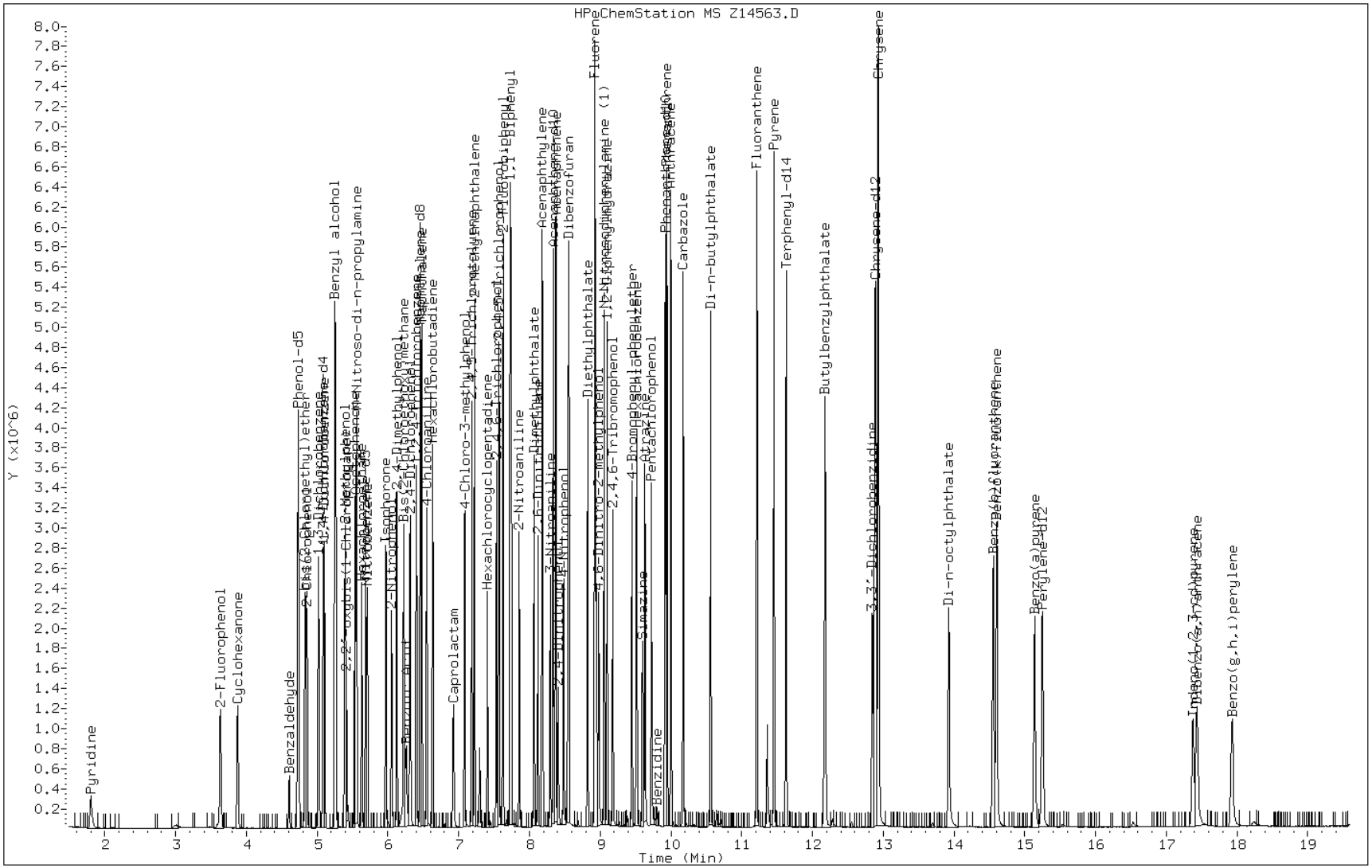
H - Operator selected an alternate compound hit.

Data File: Z14563.D

Date: 21-DEC-2009 08:58

Client ID: IC-395384 Instrument: msz.i

Sample Info: IC-395384;20/30 Operator: S.Jonas



TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14564.D
Lab Smp Id: IC-395385 Client Smp ID: IC-395385
Inj Date : 21-DEC-2009 09:26
Operator : S.Jonas Inst ID: msz.i
Smp Info : IC-395385;60
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:16 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 09:26 Cal File: Z14564.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.086	5.086	(1.000)	472136	20.0000	
$ 2	2-Fluorophenol	112	3.639	3.639	(0.716)	1736982	60.0000	62
$ 3	Phenol-d5	99	4.745	4.745	(0.933)	2158473	60.0000	58
4	Pyridine	52	1.804	1.804	(0.355)	330973	60.0000	63
5	N-Nitrosodimethylamine	42	1.792	1.792	(0.352)	242391	60.0000	63
6	Cyclohexanone	42	3.875	3.875	(0.762)	542491	60.0000	54
128	Benzaldehyde	77	4.604	4.604	(0.905)	271341	60.0000	76
7	Phenol	94	4.757	4.757	(0.935)	2385094	60.0000	59
8	Aniline	93	4.733	4.733	(0.931)	2560737	60.0000	58
9	bis(2-Chloroethyl)ether	63	4.833	4.833	(0.950)	1239889	60.0000	57
10	2-Chlorophenol	128	4.863	4.863	(0.956)	2044919	60.0000	61
11	1,3-Dichlorobenzene	146	5.021	5.021	(0.987)	2166209	60.0000	60
12	1,4-Dichlorobenzene	146	5.104	5.104	(1.003)	2164567	60.0000	60
13	Benzyl alcohol	108	5.263	5.263	(1.035)	1069597	60.0000	54
14	1,2-Dichlorobenzene	146	5.269	5.269	(1.036)	1777003	60.0000	54
15	2,2'-oxybis(1-Chloropropane)	45	5.416	5.416	(1.065)	1861517	60.0000	56
16	2-Methylphenol	108	5.404	5.404	(1.062)	1808642	60.0000	59
92	Acetophenone	105	5.545	5.545	(1.090)	2650843	60.0000	58
17	Hexachloroethane	117	5.627	5.627	(1.106)	892700	60.0000	59
18	N-Nitroso-di-n-propylamine	70	5.563	5.563	(1.094)	1177061	60.0000	57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.569	5.569	(1.095)	1773379	60.0000	57
*	20 Naphthalene-d8	136	6.457	6.457	(1.000)	2157283	20.0000	
$	21 Nitrobenzene-d5	82	5.692	5.692	(0.882)	2139049	60.0000	60
	22 Nitrobenzene	77	5.716	5.716	(0.885)	1987895	60.0000	59
	23 Isophorone	82	5.980	5.980	(0.926)	3676937	60.0000	58
	24 2-Nitrophenol	139	6.057	6.057	(0.938)	1180803	60.0000	63
	25 2,4-Dimethylphenol	122	6.133	6.133	(0.950)	1813512	60.0000	58
	26 Benzoic Acid	122	6.298	6.298	(0.975)	1277923	60.0000	75(M)
	27 Bis(2-Chloroethoxy)methane	93	6.233	6.233	(0.965)	2368898	60.0000	56
	28 2,4-Dichlorophenol	162	6.321	6.321	(0.979)	1708118	60.0000	58
	29 1,2,4-Trichlorobenzene	180	6.404	6.404	(0.992)	1825984	60.0000	55
	30 Naphthalene	128	6.480	6.480	(1.004)	5886052	60.0000	54
	31 4-Chloroaniline	127	6.551	6.551	(1.015)	2573339	60.0000	57
	32 Hexachlorobutadiene	225	6.633	6.633	(1.027)	1085999	60.0000	55
	129 Caprolactam	113	6.974	6.974	(1.080)	713353	60.0000	64
	33 4-Chloro-3-methylphenol	107	7.092	7.092	(1.098)	1875662	60.0000	59
	34 2-Methylnaphthalene	142	7.227	7.227	(1.119)	3910645	60.0000	54
*	35 Acenaphthene-d10	164	8.339	8.339	(1.000)	1337300	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.192	7.192	(1.414)	1753118	60.0000	58
	37 Hexachlorocyclopentadiene	237	7.410	7.410	(0.889)	1036418	60.0000	63
	38 2,4,6-Trichlorophenol	196	7.539	7.539	(0.904)	1331843	60.0000	58
	39 2,4,5-Trichlorophenol	196	7.580	7.580	(0.909)	1370087	60.0000	59
$	40 2-Fluorobiphenyl	172	7.633	7.633	(0.915)	4369795	60.0000	54
	130 1,1'-Biphenyl	154	7.733	7.733	(0.927)	4439524	60.0000	49
	41 2-Chloronaphthalene	162	7.745	7.745	(0.929)	3555859	60.0000	53
	42 2-Nitroaniline	65	7.862	7.862	(0.943)	1245818	60.0000	61
	43 Acenaphthylene	152	8.186	8.186	(0.982)	6592106	60.0000	55
	44 Dimethylphthalate	163	8.074	8.074	(0.968)	4312318	60.0000	57
	45 2,6-Dinitrotoluene	165	8.127	8.127	(0.975)	1072281	60.0000	62
	46 Acenaphthene	153	8.374	8.374	(1.004)	3979554	60.0000	54
	47 3-Nitroaniline	138	8.304	8.304	(0.996)	1316272	60.0000	63
	48 2,4-Dinitrophenol	184	8.410	8.410	(1.008)	514439	60.0000	59
	49 Dibenzofuran	168	8.562	8.562	(1.027)	5296427	60.0000	52
	50 2,4-Dinitrotoluene	165	8.557	8.557	(1.026)	1237078	60.0000	57
	51 4-Nitrophenol	109	8.498	8.498	(1.019)	624961	60.0000	64
	52 Fluorene	166	8.927	8.927	(1.071)	3898929	60.0000	50
	53 4-Chlorophenyl-phenylether	204	8.933	8.933	(1.071)	1800886	60.0000	49
	54 Diethylphthalate	149	8.827	8.827	(1.059)	4458367	60.0000	58
	55 4-Nitroaniline	138	8.962	8.962	(1.075)	1299239	60.0000	75(H)
$	56 2,4,6-Tribromophenol	330	9.186	9.186	(1.102)	712704	60.0000	61
*	57 Phenanthrene-d10	188	9.921	9.921	(1.000)	2192941	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.992	8.992	(0.906)	780179	60.0000	72
	59 N-Nitrosodiphenylamine (1)	169	9.062	9.062	(0.913)	3493136	60.0000	59
	60 1,2-Diphenylhydrazine	77	9.104	9.104	(0.918)	4530344	60.0000	56
	61 4-Bromophenyl-phenylether	248	9.451	9.451	(0.953)	1271215	60.0000	59
	131 Atrazine	200	9.645	9.645	(0.972)	1254625	60.0000	63
	62 Hexachlorobenzene	284	9.521	9.521	(0.960)	1387614	60.0000	58
	63 Pentachlorophenol	266	9.727	9.727	(0.980)	831825	60.0000	65
	64 Phenanthrene	178	9.951	9.951	(1.003)	6339196	60.0000	56
	65 Carbazole	167	10.180	10.180	(1.026)	6339461	60.0000	58
	66 Anthracene	178	10.004	10.004	(1.008)	6484175	60.0000	56
	67 Di-n-butylphthalate	149	10.562	10.562	(1.065)	7072072	60.0000	59
	68 Fluoranthene	202	11.221	11.221	(1.131)	7170832	60.0000	58
*	70 Chrysene-d12	240	12.903	12.903	(1.000)	1973755	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
71	Benzidine	184	9.809	9.809	(0.760)	204450	60.0000	60
72	Pyrene	202	11.462	11.462	(0.888)	7448408	60.0000	57
$ 73	Terphenyl-d14	244	11.633	11.633	(0.902)	4807439	60.0000	58
74	Butylbenzylphthalate	149	12.186	12.186	(0.944)	3248940	60.0000	64
124	3,3'-Dimethylbenzidine	212	12.162	12.162	(0.943)	1148341	60.0000	65
75	3,3'-Dichlorobenzidine	252	12.856	12.856	(0.996)	1973583	60.0000	69
76	Benzo(a)anthracene	228	12.886	12.886	(0.999)	6873284	60.0000	63
77	Chrysene	228	12.945	12.945	(1.003)	6093647	60.0000	59
78	Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.002)	3514167	60.0000	61
* 79	Perylene-d12	264	15.250	15.250	(1.000)	939395	20.0000	
80	Di-n-octylphthalate	149	13.927	13.927	(0.913)	6119521	60.0000	75
81	Benzo(b)fluoranthene	252	14.568	14.568	(0.955)	5121762	60.0000	71
82	Benzo(k)fluoranthene	252	14.621	14.621	(0.959)	5222586	60.0000	67
83	Benzo(a)pyrene	252	15.150	15.150	(0.993)	3736366	60.0000	67
84	Indeno(1,2,3-cd)pyrene	276	17.385	17.385	(1.140)	2282419	60.0000	63
85	Dibenzo(a,h)anthracene	278	17.444	17.444	(1.144)	2420282	60.0000	63
86	Benzo(g,h,i)perylene	276	17.944	17.944	(1.177)	2352710	60.0000	61
167	Simazine	201	9.615	9.615	(0.969)	685361	60.0000	74(H)

QC Flag Legend

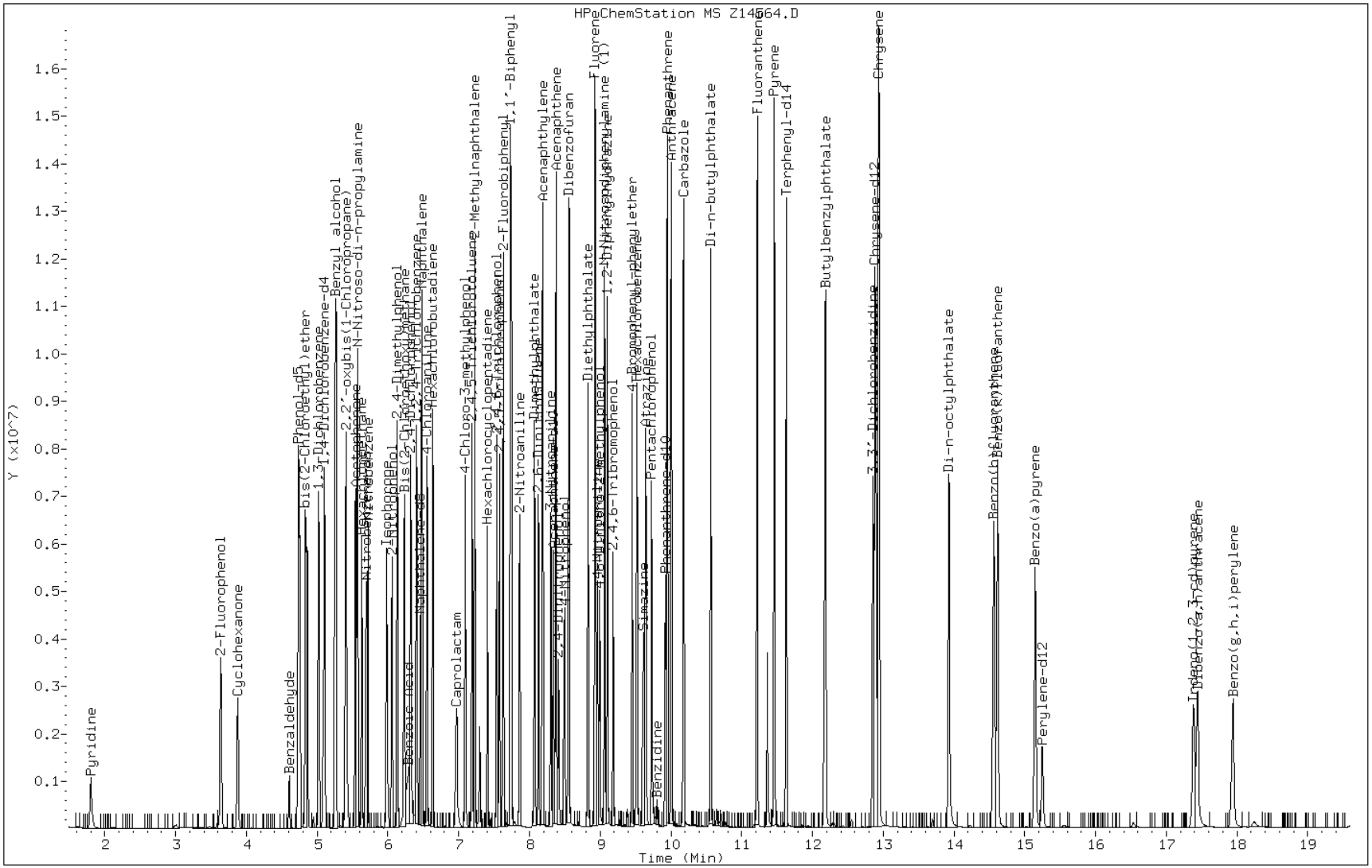
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: Z14564.D

Date: 21-DEC-2009 09:26

Client ID: IC-395385 Instrument: msz.i

Sample Info: IC-395385;60 Operator: S.Jonas



Manual Integration Report

Data File: Z14564.D
Inj. Date and Time: 21-DEC-2009 09:26
Instrument ID: msz.i
Client ID: IC-395385
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/21/2009

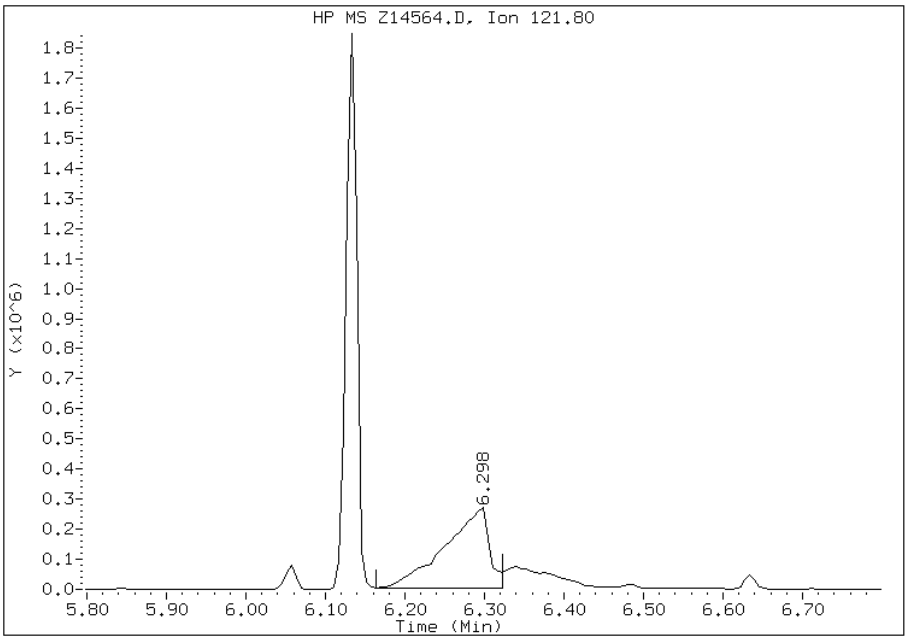
Processing Integration Results

RT: 6.30

Response: 1024224

Amount: 63

Conc: 63



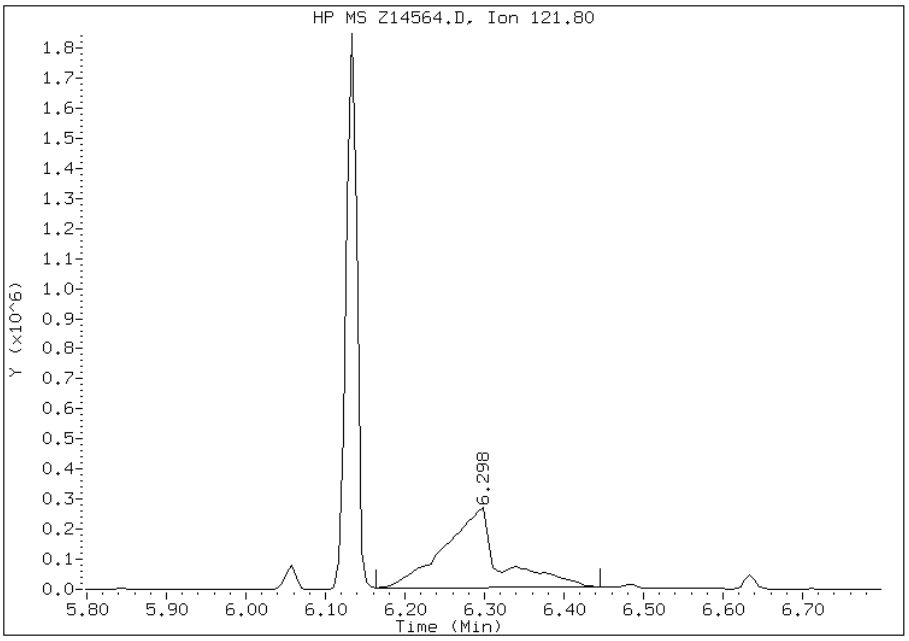
Manual Integration Results

RT: 6.30

Response: 1277923

Amount: 75

Conc: 75



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14565.D
Lab Smp Id: IC-395386 Client Smp ID: IC-395386
Inj Date : 21-DEC-2009 09:54
Operator : S.Jonas Inst ID: msz.i
Smp Info : IC-395386;80
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:16 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 09:54 Cal File: Z14565.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.086	5.086	(1.000)	471393	20.0000	
$ 2	2-Fluorophenol	112	3.645	3.645	(0.717)	2163845	80.0000	77
$ 3	Phenol-d5	99	4.751	4.751	(0.934)	2643741	80.0000	71
4	Pyridine	52	1.804	1.804	(0.355)	422555	80.0000	81(A)
5	N-Nitrosodimethylamine	42	1.792	1.792	(0.352)	303930	80.0000	80
6	Cyclohexanone	42	3.875	3.875	(0.762)	586184	80.0000	58
128	Benzaldehyde	77	4.604	4.604	(0.905)	238574	80.0000	67
7	Phenol	94	4.763	4.763	(0.936)	2911217	80.0000	72
8	Aniline	93	4.739	4.739	(0.932)	3132018	80.0000	71
9	bis(2-Chloroethyl)ether	63	4.833	4.833	(0.950)	1518568	80.0000	71
10	2-Chlorophenol	128	4.869	4.869	(0.957)	2502817	80.0000	74
11	1,3-Dichlorobenzene	146	5.027	5.027	(0.988)	2699455	80.0000	75
12	1,4-Dichlorobenzene	146	5.104	5.104	(1.003)	2670511	80.0000	74
13	Benzyl alcohol	108	5.269	5.269	(1.036)	1240141	80.0000	63
14	1,2-Dichlorobenzene	146	5.274	5.274	(1.037)	2070033	80.0000	63
15	2,2'-oxybis(1-Chloropropane)	45	5.422	5.422	(1.066)	2182242	80.0000	66
16	2-Methylphenol	108	5.410	5.410	(1.064)	2163913	80.0000	70
92	Acetophenone	105	5.545	5.545	(1.090)	3272456	80.0000	72
17	Hexachloroethane	117	5.633	5.633	(1.108)	1105778	80.0000	73
18	N-Nitroso-di-n-propylamine	70	5.569	5.569	(1.095)	1395496	80.0000	67

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	19 4-Methylphenol	108	5.574	5.574	(1.096)	2086642	80.0000	67
*	20 Naphthalene-d8	136	6.463	6.463	(1.000)	2047982	20.0000	
$	21 Nitrobenzene-d5	82	5.698	5.698	(0.882)	2626459	80.0000	77
	22 Nitrobenzene	77	5.722	5.722	(0.885)	2361250	80.0000	74
	23 Isophorone	82	5.986	5.986	(0.926)	4488045	80.0000	75
	24 2-Nitrophenol	139	6.063	6.063	(0.938)	1454702	80.0000	82(A)
	25 2,4-Dimethylphenol	122	6.139	6.139	(0.950)	2198476	80.0000	74
	26 Benzoic Acid	122	6.310	6.310	(0.976)	1667508	80.0000	95(AM)
	27 Bis(2-Chloroethoxy)methane	93	6.233	6.233	(0.965)	2853162	80.0000	72
	28 2,4-Dichlorophenol	162	6.327	6.327	(0.979)	1988651	80.0000	71
	29 1,2,4-Trichlorobenzene	180	6.410	6.410	(0.992)	2193857	80.0000	70
	30 Naphthalene	128	6.486	6.486	(1.004)	6994620	80.0000	68
	31 4-Chloroaniline	127	6.557	6.557	(1.015)	2994851	80.0000	70
	32 Hexachlorobutadiene	225	6.639	6.639	(1.027)	1278504	80.0000	68
	129 Caprolactam	113	6.992	6.992	(1.082)	803993	80.0000	76
	33 4-Chloro-3-methylphenol	107	7.098	7.098	(1.098)	2182414	80.0000	72
	34 2-Methylnaphthalene	142	7.233	7.233	(1.119)	4542486	80.0000	67
*	35 Acenaphthene-d10	164	8.339	8.339	(1.000)	1249166	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.192	7.192	(1.414)	2070603	80.0000	68
	37 Hexachlorocyclopentadiene	237	7.410	7.410	(0.889)	1183864	80.0000	76
	38 2,4,6-Trichlorophenol	196	7.539	7.539	(0.904)	1603385	80.0000	74
	39 2,4,5-Trichlorophenol	196	7.580	7.580	(0.909)	1637837	80.0000	75
$	40 2-Fluorobiphenyl	172	7.633	7.633	(0.915)	5126957	80.0000	67
	130 1,1'-Biphenyl	154	7.739	7.739	(0.928)	4903385	80.0000	58
	41 2-Chloronaphthalene	162	7.751	7.751	(0.929)	4096837	80.0000	65
	42 2-Nitroaniline	65	7.868	7.868	(0.944)	1483225	80.0000	77
	43 Acenaphthylene	152	8.192	8.192	(0.982)	7527758	80.0000	67
	44 Dimethylphthalate	163	8.080	8.080	(0.969)	5107988	80.0000	73
	45 2,6-Dinitrotoluene	165	8.133	8.133	(0.975)	1304371	80.0000	80(A)
	46 Acenaphthene	153	8.380	8.380	(1.005)	4637742	80.0000	67
	47 3-Nitroaniline	138	8.310	8.310	(0.996)	1589418	80.0000	82(A)
	48 2,4-Dinitrophenol	184	8.415	8.415	(1.009)	695096	80.0000	81(A)
	49 Dibenzofuran	168	8.568	8.568	(1.028)	6008450	80.0000	63
	50 2,4-Dinitrotoluene	165	8.557	8.557	(1.026)	1438860	80.0000	71
	51 4-Nitrophenol	109	8.504	8.504	(1.020)	798185	80.0000	87(A)
	52 Fluorene	166	8.927	8.927	(1.071)	4356481	80.0000	60
	53 4-Chlorophenyl-phenylether	204	8.939	8.939	(1.072)	1986275	80.0000	58
	54 Diethylphthalate	149	8.833	8.833	(1.059)	5287447	80.0000	73
	55 4-Nitroaniline	138	8.974	8.974	(1.076)	1625325	80.0000	84(AH)
$	56 2,4,6-Tribromophenol	330	9.186	9.186	(1.102)	878449	80.0000	81(A)
*	57 Phenanthrene-d10	188	9.927	9.927	(1.000)	2040725	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.998	8.998	(0.906)	1000843	80.0000	99(A)
	59 N-Nitrosodiphenylamine (1)	169	9.068	9.068	(0.913)	4136191	80.0000	75
	60 1,2-Diphenylhydrazine	77	9.104	9.104	(0.917)	5260154	80.0000	70
	61 4-Bromophenyl-phenylether	248	9.457	9.457	(0.953)	1493433	80.0000	74
	131 Atrazine	200	9.651	9.651	(0.972)	1513342	80.0000	82(A)
	62 Hexachlorobenzene	284	9.521	9.521	(0.959)	1630746	80.0000	74
	63 Pentachlorophenol	266	9.733	9.733	(0.980)	1059946	80.0000	89(A)
	64 Phenanthrene	178	9.957	9.957	(1.003)	7402321	80.0000	70
	65 Carbazole	167	10.186	10.186	(1.026)	7593677	80.0000	75
	66 Anthracene	178	10.009	10.009	(1.008)	7517262	80.0000	70
	67 Di-n-butylphthalate	149	10.568	10.568	(1.065)	8222722	80.0000	74
	68 Fluoranthene	202	11.227	11.227	(1.131)	8553319	80.0000	75
*	70 Chrysene-d12	240	12.903	12.903	(1.000)	1836045	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
71	Benzidine	184	9.809	9.809	(0.760)	259021	80.0000	81(A)
72	Pyrene	202	11.468	11.468	(0.889)	8869371	80.0000	73
$ 73	Terphenyl-d14	244	11.633	11.633	(0.902)	5652075	80.0000	74
74	Butylbenzylphthalate	149	12.186	12.186	(0.944)	3999786	80.0000	84(A)
124	3,3'-Dimethylbenzidine	212	12.162	12.162	(0.943)	1219976	80.0000	74
75	3,3'-Dichlorobenzidine	252	12.862	12.862	(0.997)	2325909	80.0000	87(A)
76	Benzo(a)anthracene	228	12.892	12.892	(0.999)	8251757	80.0000	81(A)
77	Chrysene	228	12.945	12.945	(1.003)	7279509	80.0000	76
78	Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.002)	4307821	80.0000	80
* 79	Perylene-d12	264	15.250	15.250	(1.000)	782305	20.0000	
80	Di-n-octylphthalate	149	13.933	13.933	(0.914)	7709584	80.0000	110(A)
81	Benzo(b)fluoranthene	252	14.574	14.574	(0.956)	5682198	80.0000	95(A)
82	Benzo(k)fluoranthene	252	14.621	14.621	(0.959)	6189360	80.0000	95(A)
83	Benzo(a)pyrene	252	15.156	15.156	(0.994)	4280823	80.0000	92(A)
84	Indeno(1,2,3-cd)pyrene	276	17.397	17.397	(1.141)	3050151	80.0000	100(A)
85	Dibenzo(a,h)anthracene	278	17.450	17.450	(1.144)	3211653	80.0000	100(A)
86	Benzo(g,h,i)perylene	276	17.956	17.956	(1.177)	3224606	80.0000	80
167	Simazine	201	9.621	9.621	(0.969)	857999	80.0000	85(AH)

QC Flag Legend

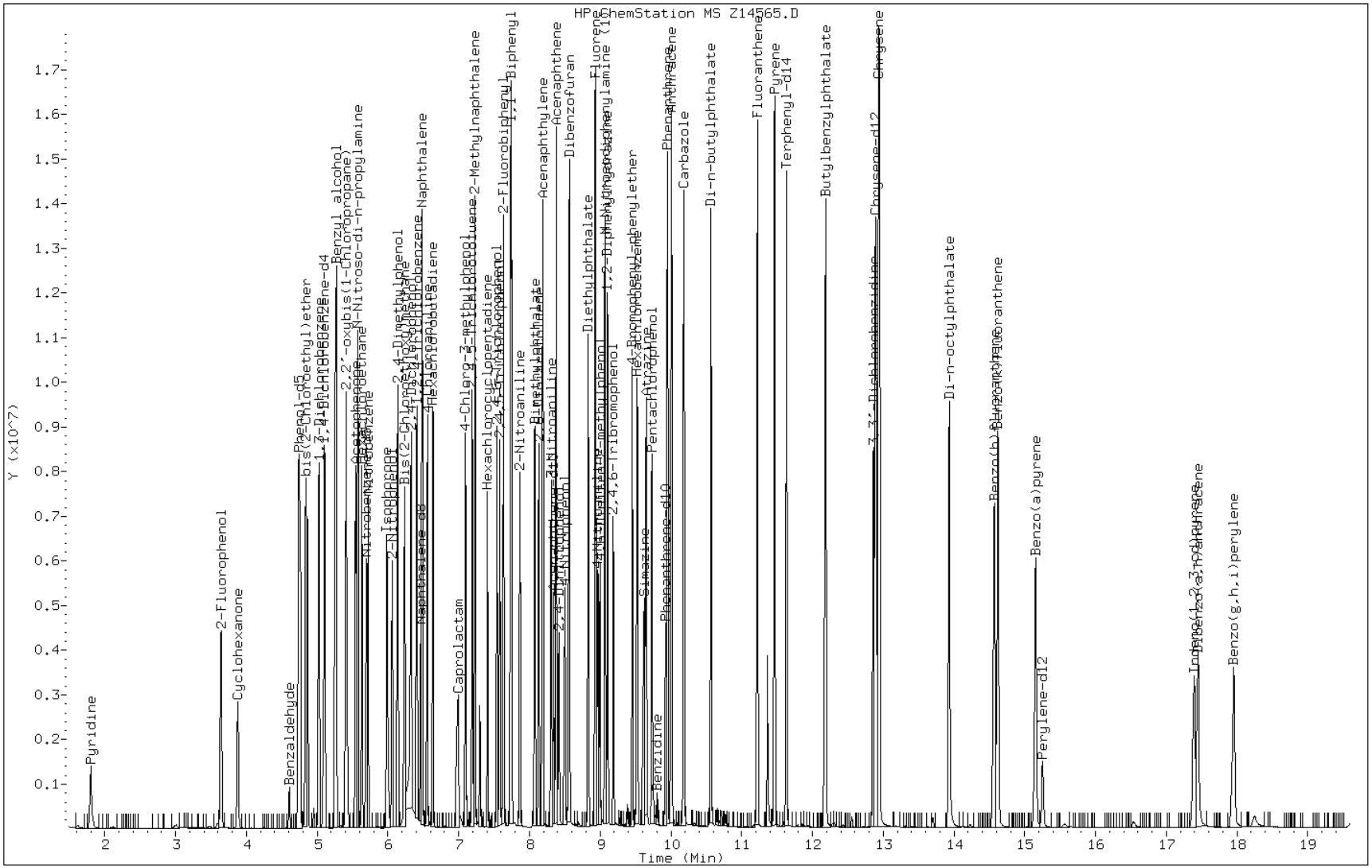
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: Z14565.D

Date: 21-DEC-2009 09:54

Client ID: IC-395386 Instrument: msz.i

Sample Info: IC-395386;80 Operator: S.Jonas



Manual Integration Report

Data File: Z14565.D
Inj. Date and Time: 21-DEC-2009 09:54
Instrument ID: msz.i
Client ID: IC-395386
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/21/2009

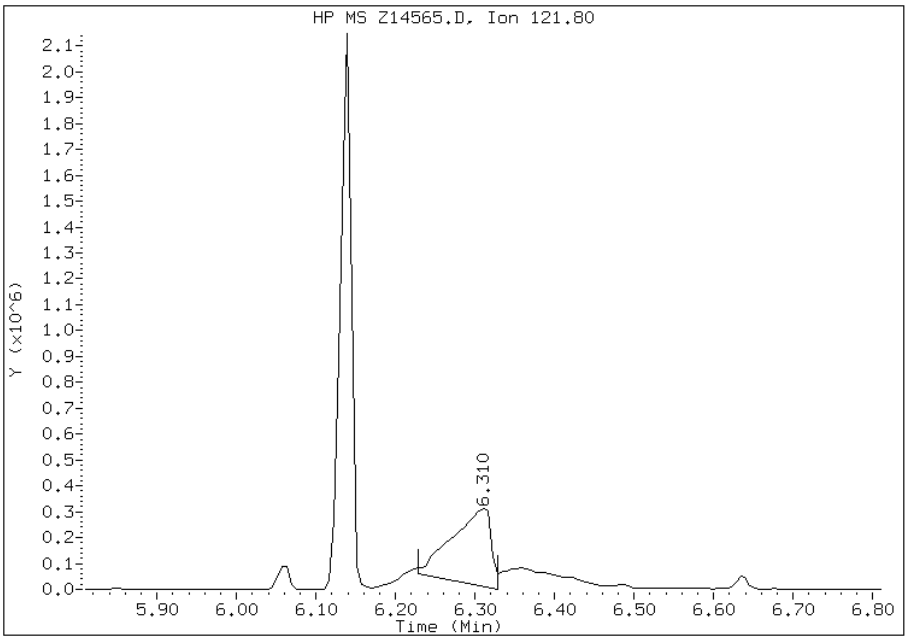
Processing Integration Results

RT: 6.31

Response: 1003836

Amount: 62

Conc: 62



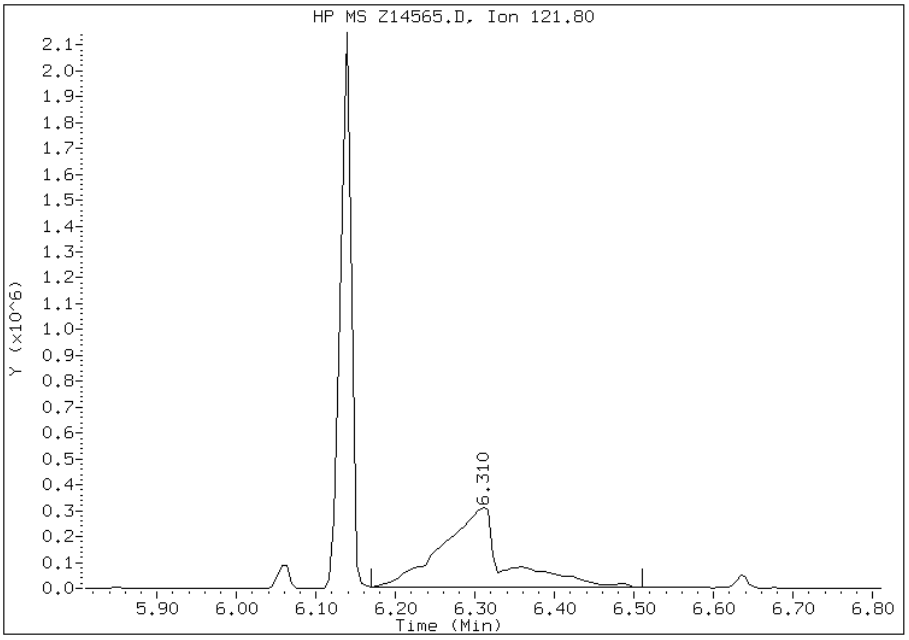
Manual Integration Results

RT: 6.31

Response: 1667508

Amount: 95

Conc: 95



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34589/1 Calibration Date: 12/23/2009 07:50

Instrument ID: MSA Calib Start Date: 12/21/2009 13:16

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/21/2009 16:07

Lab File ID: A9261.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.1361	0.1267	0.0500	37.2	40.0	-6.9	30.0
Pyridine	Ave	0.1713	0.1695	0.0500	39.6	40.0	-1.0	30.0
Cyclohexanone	Ave	0.5994	0.6588	0.0500	44.0	40.0	9.9	30.0
Benzaldehyde	Ave	0.1883	0.0818	0.0500	17.4	40.0	-56.6*	30.0
Aniline	Ave	1.980	2.005	0.0500	40.5	40.0	1.3	30.0
Phenol	Ave	1.665	1.675	0.0500	40.3	40.0	0.6	20.0
Bis(2-chloroethyl)ether	Ave	1.073	1.031	0.0500	38.4	40.0	-4.0	30.0
2-Chlorophenol	Ave	1.386	1.382	0.0500	39.9	40.0	-0.3	30.0
1,3-Dichlorobenzene	Ave	1.577	1.568	0.0500	39.8	40.0	-0.6	30.0
1,4-Dichlorobenzene	Ave	1.605	1.616	0.0500	40.3	40.0	0.7	20.0
1,2-Dichlorobenzene	Ave	1.491	1.449	0.0500	38.9	40.0	-2.8	30.0
Benzyl alcohol	Ave	0.8709	0.8745	0.0500	40.2	40.0	0.4	30.0
2-Methylphenol	Ave	1.301	1.301	0.0500	40.0	40.0	0.0	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.268	2.269	0.0500	40.0	40.0	0.0	30.0
Acetophenone	Ave	1.916	1.903	0.0500	39.7	40.0	-0.7	30.0
N-Nitrosodi-n-propylamine	Ave	1.090	1.092	0.0500	40.0	40.0	0.1	30.0
4-Methylphenol	Ave	1.423	1.424	0.0500	40.1	40.0	0.1	30.0
Hexachloroethane	Ave	0.6864	0.6866	0.0500	40.0	40.0	0.0	30.0
Nitrobenzene	Ave	0.3370	0.3330	0.0500	39.5	40.0	-1.2	30.0
Isophorone	Ave	0.6313	0.6334	0.0500	40.1	40.0	0.3	30.0
2-Nitrophenol	Ave	0.1879	0.1906	0.0500	40.6	40.0	1.4	20.0
2,4-Dimethylphenol	Ave	0.2843	0.2876	0.0500	40.5	40.0	1.2	30.0
Bis(2-chloroethoxy)methane	Ave	0.3930	0.3863	0.0500	39.3	40.0	-1.7	30.0
Benzoic acid	Ave	0.2183	0.2201	0.0500	40.3	40.0	0.8	30.0
2,4-Dichlorophenol	Ave	0.2844	0.2836	0.0500	39.9	40.0	-0.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3030	0.3031	0.0500	40.0	40.0	0.0	30.0
Naphthalene	Ave	1.020	0.9874	0.0500	38.7	40.0	-3.2	30.0
4-Chloroaniline	Ave	0.4293	0.4257	0.0500	39.7	40.0	-0.8	30.0
Hexachlorobutadiene	Ave	0.1600	0.1615	0.0500	40.4	40.0	0.9	20.0
Caprolactam	Ave	0.1035	0.0992	0.0500	38.4	40.0	-4.1	30.0
4-Chloro-3-methylphenol	Ave	0.2990	0.3076	0.0500	41.2	40.0	2.9	20.0
2,4,5-Trichlorotoluene	Ave	1.376	1.379	0.0500	40.1	40.0	0.2	30.0
2-Methylnaphthalene	Ave	0.7068	0.6889	0.0500	39.0	40.0	-2.5	30.0
Hexachlorocyclopentadiene	Ave	0.2316	0.2532	0.0500	43.7	40.0	9.3	30.0
2,4,6-Trichlorophenol	Ave	0.3153	0.3234	0.0500	41.0	40.0	2.6	20.0
2,4,5-Trichlorophenol	Ave	0.3307	0.3491	0.0500	42.2	40.0	5.5	30.0
1,1'-Biphenyl	Ave	1.195	1.128	0.0500	37.8	40.0	-5.6	30.0
2-Chloronaphthalene	Ave	0.9590	0.9139	0.0500	38.1	40.0	-4.7	30.0
2-Nitroaniline	Ave	0.3435	0.3428	0.0500	39.9	40.0	-0.2	30.0
Dimethyl phthalate	Ave	1.153	1.169	0.0500	40.6	40.0	1.4	30.0
2,6-Dinitrotoluene	Ave	0.2717	0.2887	0.0500	42.5	40.0	6.3	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34589/1 Calibration Date: 12/23/2009 07:50

Instrument ID: MSA Calib Start Date: 12/21/2009 13:16

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/21/2009 16:07

Lab File ID: A9261.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthylene	Ave	1.766	1.751	0.0500	39.6	40.0	-0.9	30.0
3-Nitroaniline	Ave	0.3406	0.3508	0.0500	41.2	40.0	3.0	30.0
Acenaphthene	Ave	1.097	1.064	0.0500	38.8	40.0	-3.0	20.0
2,4-Dinitrophenol	Lin	0.1431	0.1778	0.0500	43.7	40.0	9.2	30.0
4-Nitrophenol	Ave	0.1563	0.1684	0.0500	43.1	40.0	7.7	30.0
Dibenzofuran	Ave	1.491	1.446	0.0500	38.8	40.0	-3.0	30.0
2,4-Dinitrotoluene	Ave	0.3544	0.3543	0.0500	40.0	40.0	0.0	30.0
Diethyl phthalate	Ave	1.264	1.291	0.0500	40.9	40.0	2.2	30.0
Fluorene	Ave	1.252	1.231	0.0500	39.3	40.0	-1.7	30.0
4-Chlorophenyl phenyl ether	Ave	0.5325	0.5407	0.0500	40.6	40.0	1.5	30.0
4-Nitroaniline	Ave	0.3554	0.3657	0.0500	41.2	40.0	2.9	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1239	0.1307	0.0500	42.2	40.0	5.5	30.0
N-Nitrosodiphenylamine	Ave	0.5306	0.5124	0.0500	38.6	40.0	-3.4	20.0
1,2-Diphenylhydrazine	Ave	0.8146	0.7855	0.0500	38.6	40.0	-3.6	30.0
4-Bromophenyl phenyl ether	Ave	0.1873	0.1863	0.0500	39.8	40.0	-0.5	30.0
Hexachlorobenzene	Ave	0.2070	0.1985	0.0500	38.4	40.0	-4.1	30.0
Simazine	Ave	0.0833	0.1002	0.0500	41.2	40.0	20.2	30.0
Atrazine	Ave	0.1868	0.1867	0.0500	40.0	40.0	0.1	30.0
Pentachlorophenol	Ave	0.1293	0.1388	0.0500	42.9	40.0	7.4	20.0
Benzidine	Ave	0.0294	0.0283*	0.0500	38.4	40.0	-4.0	30.0
Phenanthrene	Ave	1.083	1.052	0.0500	38.9	40.0	-2.9	30.0
Anthracene	Ave	1.090	1.072	0.0500	39.4	40.0	-1.6	30.0
Carbazole	Ave	1.072	1.047	0.0500	39.1	40.0	-2.2	30.0
Di-n-butyl phthalate	Ave	1.306	1.349	0.0500	41.3	40.0	3.3	30.0
Fluoranthene	Ave	1.200	1.219	0.0500	40.7	40.0	1.6	20.0
Pyrene	Ave	1.222	1.132	0.0500	37.0	40.0	-7.4	30.0
3,3'-Dimethylbenzidine	Ave	0.1710	0.2500	0.0500	58.5	40.0	46.2*	30.0
Butyl benzyl phthalate	Ave	0.5939	0.6058	0.0500	40.8	40.0	2.0	30.0
3,3'-Dichlorobenzidine	Ave	0.2975	0.3279	0.0500	44.1	40.0	10.2	30.0
Benzo[a]anthracene	Ave	1.029	1.016	0.0500	39.5	40.0	-1.2	30.0
Chrysene	Ave	1.021	0.9383	0.0500	36.8	40.0	-8.1	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.7252	0.8127	0.0500	44.8	40.0	12.1	30.0
Di-n-octyl phthalate	Lin	1.858	1.820	0.0500	32.6	40.0	-18.4	20.0
Benzo[b]fluoranthene	Ave	1.411	1.351	0.0500	38.3	40.0	-4.3	30.0
Benzo[k]fluoranthene	Ave	1.589	1.333	0.0500	33.6	40.0	-16.1	30.0
Benzo[a]pyrene	Ave	1.098	1.108	0.0500	40.4	40.0	0.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.5755	0.7183	0.0500	49.9	40.0	24.8	30.0
Dibenz(a,h)anthracene	Ave	0.6262	0.7486	0.0500	47.8	40.0	19.6	30.0
Benzo[g,h,i]perylene	Ave	0.6306	0.6577	0.0500	41.7	40.0	4.3	30.0
2-Fluorophenol	Ave	1.091	1.109	0.0500	40.6	40.0	1.6	30.0
Phenol-d5	Ave	1.672	1.690	0.0500	40.4	40.0	1.1	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34589/1 Calibration Date: 12/23/2009 07:50

Instrument ID: MSA Calib Start Date: 12/21/2009 13:16

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/21/2009 16:07

Lab File ID: A9261.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene-d5	Ave	0.3501	0.3499	0.0500	40.0	40.0	0.1	30.0
2-Fluorobiphenyl	Ave	1.134	1.114	0.0500	39.3	40.0	-1.8	30.0
2,4,6-Tribromophenol	Ave	0.1822	0.1901	0.0500	41.7	40.0	4.3	30.0
Terphenyl-d14	Ave	0.7976	0.7367	0.0500	37.0	40.0	-7.6	30.0

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099261.b\A9261.D
Lab Smp Id: CCVIS-401498 Client Smp ID: CCVIS-401498
Inj Date : 23-DEC-2009 07:50
Operator : S.Jonas Inst ID: msa.i
Smp Info : CCVIS-401498
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099261.b\MSA-8270C.m
Meth Date : 23-Dec-2009 08:10 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 17:59 Cal File: Aa9222.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	4.787	4.787	(1.000)	284663	20.0000	
$ 2	2-Fluorophenol	112	3.339	3.339	(0.698)	631381	40.0000	41
$ 3	Phenol-d5	99	4.467	4.467	(0.933)	962356	40.0000	40
4	Pyridine	52	1.558	1.558	(0.326)	96494	40.0000	40
5	N-Nitrosodimethylamine	42	1.552	1.552	(0.324)	72126	40.0000	37
6	Cyclohexanone	42	3.564	3.564	(0.745)	375067	40.0000	44
128	Benzaldehyde	77	4.306	4.306	(0.900)	46553	40.0000	17
7	Phenol	94	4.479	4.479	(0.936)	953703	40.0000	40
8	Aniline	93	4.443	4.443	(0.928)	1141776	40.0000	41
9	bis(2-Chloroethyl)ether	63	4.544	4.544	(0.949)	586908	40.0000	38
10	2-Chlorophenol	128	4.568	4.568	(0.954)	786866	40.0000	40
11	1,3-Dichlorobenzene	146	4.728	4.728	(0.988)	892568	40.0000	40
12	1,4-Dichlorobenzene	146	4.811	4.811	(1.005)	919931	40.0000	40
13	Benzyl alcohol	108	4.977	4.977	(1.040)	497876	40.0000	40
14	1,2-Dichlorobenzene	146	4.971	4.971	(1.038)	824776	40.0000	39
15	2,2'-oxybis(1-Chloropropane)	45	5.131	5.131	(1.072)	1291735	40.0000	40
16	2-Methylphenol	108	5.125	5.125	(1.071)	740502	40.0000	40
92	Acetophenone	105	5.250	5.250	(1.097)	1083148	40.0000	40
17	Hexachloroethane	117	5.327	5.327	(1.113)	390909	40.0000	40
18	N-Nitroso-di-n-propylamine	70	5.274	5.274	(1.102)	621497	40.0000	40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
19	4-Methylphenol	108	5.292	5.292	(1.105)	810963	40.0000	40
* 20	Naphthalene-d8	136	6.152	6.152	(1.000)	1364747	20.0000	
$ 21	Nitrobenzene-d5	82	5.399	5.399	(0.877)	954927	40.0000	40
22	Nitrobenzene	77	5.416	5.416	(0.880)	908794	40.0000	40
23	Isophorone	82	5.689	5.689	(0.925)	1728857	40.0000	40
24	2-Nitrophenol	139	5.761	5.761	(0.936)	520180	40.0000	41
25	2,4-Dimethylphenol	122	5.850	5.850	(0.951)	785098	40.0000	40
26	Benzoic Acid	122	6.016	6.016	(0.978)	600857	40.0000	40(M)
27	Bis(2-Chloroethoxy)methane	93	5.945	5.945	(0.966)	1054404	40.0000	39
28	2,4-Dichlorophenol	162	6.028	6.028	(0.980)	774012	40.0000	40
29	1,2,4-Trichlorobenzene	180	6.105	6.105	(0.992)	827418	40.0000	40
30	Naphthalene	128	6.176	6.176	(1.004)	2695059	40.0000	39
31	4-Chloroaniline	127	6.253	6.253	(1.016)	1161835	40.0000	40
32	Hexachlorobutadiene	225	6.330	6.330	(1.029)	440823	40.0000	40
129	Caprolactam	113	6.681	6.681	(1.086)	270874	40.0000	38
33	4-Chloro-3-methylphenol	107	6.805	6.805	(1.106)	839622	40.0000	41
34	2-Methylnaphthalene	142	6.918	6.918	(1.124)	1880375	40.0000	39
* 35	Acenaphthene-d10	164	8.016	8.016	(1.000)	968183	20.0000	
36	2,4,5-Trichlorotoluene	159	6.882	6.882	(1.438)	784877	40.0000	40
37	Hexachlorocyclopentadiene	237	7.096	7.096	(0.885)	490339	40.0000	44
38	2,4,6-Trichlorophenol	196	7.233	7.233	(0.902)	626298	40.0000	41
39	2,4,5-Trichlorophenol	196	7.274	7.274	(0.907)	675957	40.0000	42
$ 40	2-Fluorobiphenyl	172	7.322	7.322	(0.913)	2156813	40.0000	39
130	1,1'-Biphenyl	154	7.422	7.422	(0.926)	2184421	40.0000	38
41	2-Chloronaphthalene	162	7.434	7.434	(0.927)	1769655	40.0000	38
42	2-Nitroaniline	65	7.553	7.553	(0.942)	663735	40.0000	40
43	Acenaphthylene	152	7.868	7.868	(0.981)	3389748	40.0000	40
44	Dimethylphthalate	163	7.767	7.767	(0.969)	2263119	40.0000	41
45	2,6-Dinitrotoluene	165	7.820	7.820	(0.976)	559079	40.0000	43
46	Acenaphthene	153	8.052	8.052	(1.004)	2060929	40.0000	39
47	3-Nitroaniline	138	7.992	7.992	(0.997)	679194	40.0000	41
48	2,4-Dinitrophenol	184	8.099	8.099	(1.010)	344312	40.0000	44
49	Dibenzofuran	168	8.236	8.236	(1.027)	2799993	40.0000	39
50	2,4-Dinitrotoluene	165	8.242	8.242	(1.028)	686023	40.0000	40
51	4-Nitrophenol	109	8.200	8.200	(1.023)	325986	40.0000	43
52	Fluorene	166	8.598	8.598	(1.073)	2382839	40.0000	39
53	4-Chlorophenyl-phenylether	204	8.609	8.609	(1.074)	1046899	40.0000	41
54	Diethylphthalate	149	8.520	8.520	(1.063)	2500482	40.0000	41
55	4-Nitroaniline	138	8.651	8.651	(1.079)	708130	40.0000	41
$ 56	2,4,6-Tribromophenol	330	8.859	8.859	(1.105)	368001	40.0000	42
* 57	Phenanthrene-d10	188	9.583	9.583	(1.000)	1783531	20.0000	
58	4,6-Dinitro-2-methylphenol	198	8.675	8.675	(0.905)	466132	40.0000	42
59	N-Nitrosodiphenylamine (1)	169	8.746	8.746	(0.913)	1827786	40.0000	39
60	1,2-Diphenylhydrazine	77	8.782	8.782	(0.916)	2801891	40.0000	39
61	4-Bromophenyl-phenylether	248	9.126	9.126	(0.952)	664558	40.0000	40
131	Atrazine	200	9.334	9.334	(0.974)	665962	40.0000	40
62	Hexachlorobenzene	284	9.185	9.185	(0.959)	708114	40.0000	38
63	Pentachlorophenol	266	9.399	9.399	(0.981)	495150	40.0000	43
64	Phenanthrene	178	9.613	9.613	(1.003)	3753636	40.0000	39
65	Carbazole	167	9.844	9.844	(1.027)	3736454	40.0000	39
66	Anthracene	178	9.666	9.666	(1.009)	3824039	40.0000	39
67	Di-n-butylphthalate	149	10.242	10.242	(1.069)	4811102	40.0000	41
68	Fluoranthene	202	10.871	10.871	(1.134)	4349124	40.0000	41
* 70	Chrysene-d12	240	12.462	12.462	(1.000)	1979628	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
71	Benzidine	184	9.470	9.470	(0.760)	111864	40.0000	38
72	Pyrene	202	11.108	11.108	(0.891)	4480253	40.0000	37
$ 73	Terphenyl-d14	244	11.286	11.286	(0.906)	2916947	40.0000	37
74	Butylbenzylphthalate	149	11.820	11.820	(0.949)	2398578	40.0000	41
124	3,3'-Dimethylbenzidine	212	11.791	11.791	(0.946)	989982	40.0000	58
75	3,3'-Dichlorobenzidine	252	12.432	12.432	(0.998)	1298340	40.0000	44
76	Benzo(a)anthracene	228	12.450	12.450	(0.999)	4024332	40.0000	40
77	Chrysene	228	12.497	12.497	(1.003)	3714932	40.0000	37
78	Bis(2-Ethylhexyl)phthalate	149	12.515	12.515	(1.004)	3217657	40.0000	45
* 79	Perylene-d12	264	14.616	14.616	(1.000)	1477998	20.0000	
80	Di-n-octylphthalate	149	13.429	13.429	(0.919)	5379022	40.0000	33
81	Benzo(b)fluoranthene	252	13.987	13.987	(0.957)	3992980	40.0000	38
82	Benzo(k)fluoranthene	252	14.040	14.040	(0.961)	3938992	40.0000	34
83	Benzo(a)pyrene	252	14.527	14.527	(0.994)	3275171	40.0000	40
84	Indeno(1,2,3-cd)pyrene	276	16.610	16.610	(1.136)	2123298	40.0000	50
85	Dibenzo(a,h)anthracene	278	16.670	16.670	(1.140)	2212967	40.0000	48
86	Benzo(g,h,i)perylene	276	17.133	17.133	(1.172)	1944247	40.0000	42
167	Simazine	201	9.304	9.304	(0.971)	357275	40.0000	41

QC Flag Legend

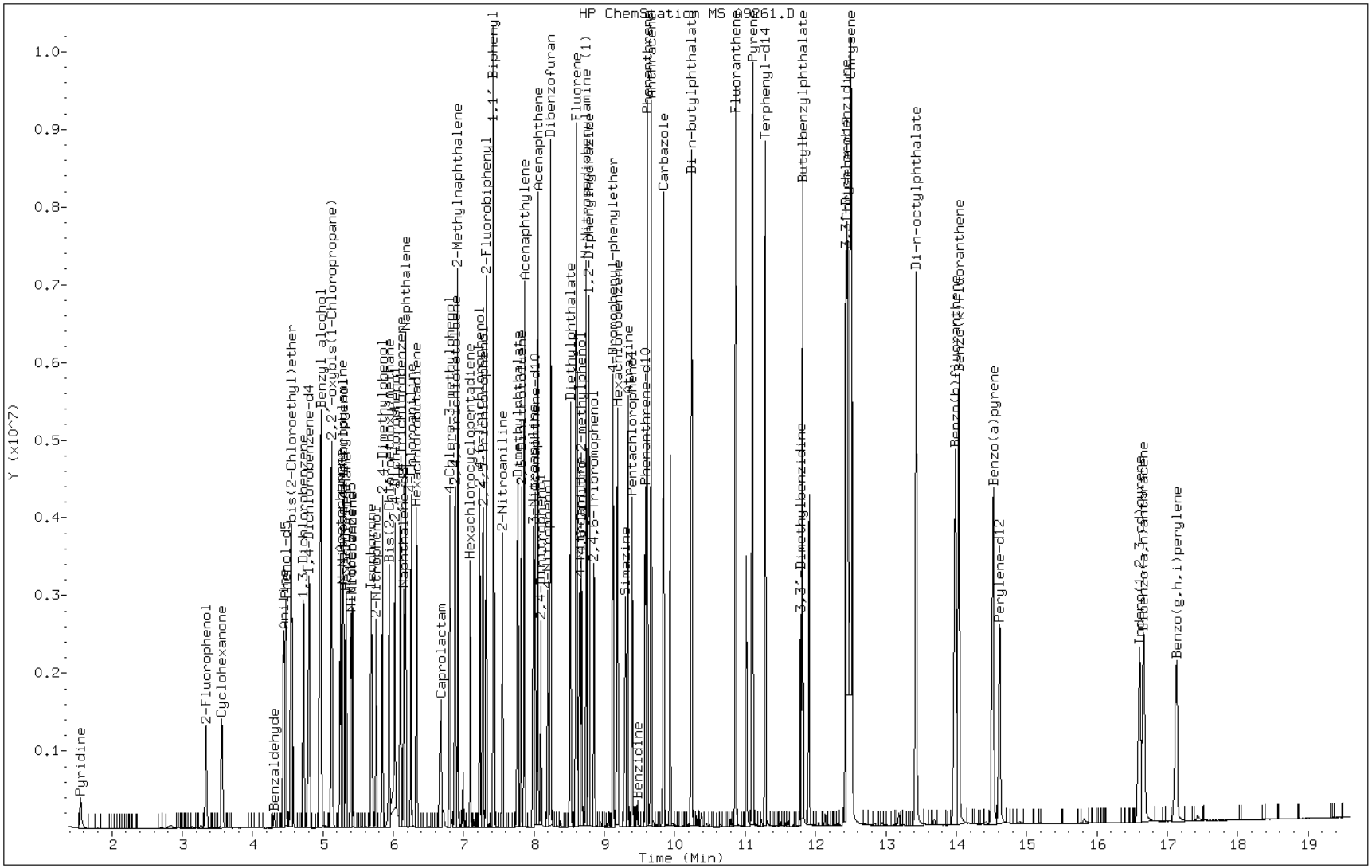
M - Compound response manually integrated.

Data File: A9261.D

Date: 23-DEC-2009 07:50

Client ID: CCVIS-401498 Instrument: msa.i

Sample Info: CCVIS-401498 Operator: S.Jonas



Manual Integration Report

Data File: A9261.D
Inj. Date and Time: 23-DEC-2009 07:50
Instrument ID: msa.i
Client ID: CCVIS-401498
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/23/2009

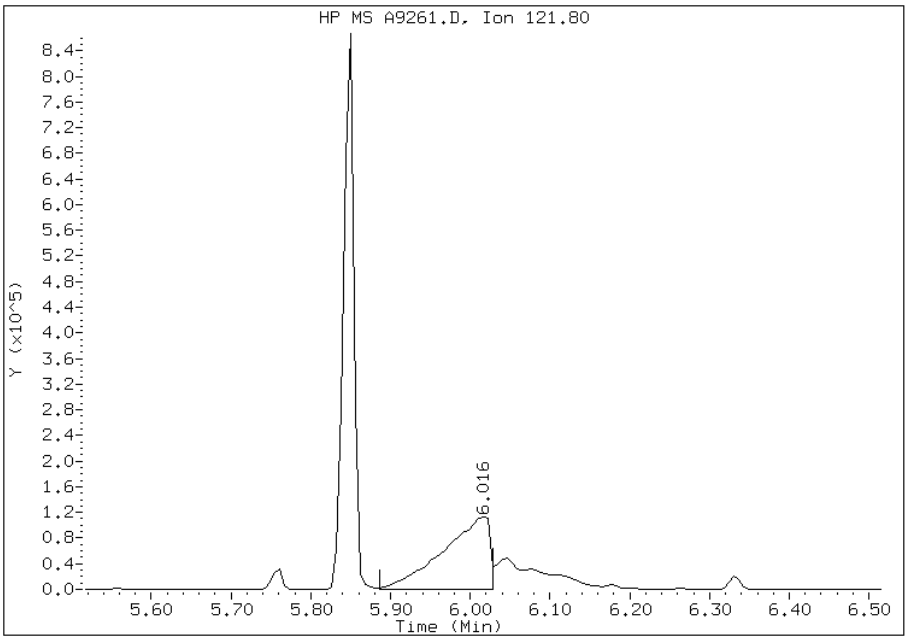
Processing Integration Results

RT: 6.02

Response: 455597

Amount: 31

Conc: 31



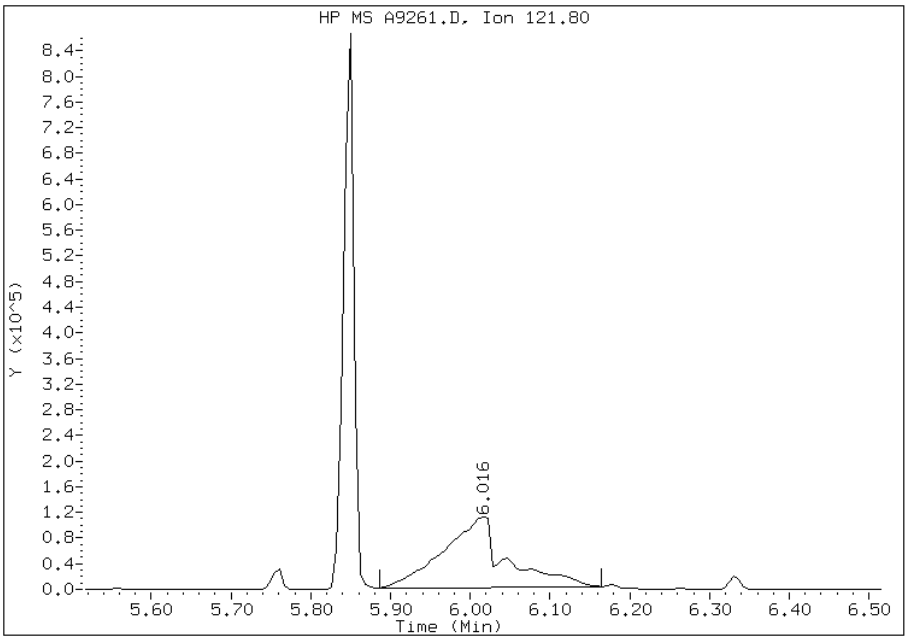
Manual Integration Results

RT: 6.02

Response: 600857

Amount: 40

Conc: 40



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34490/1 Calibration Date: 12/21/2009 08:12

Instrument ID: MSC Calib Start Date: 12/18/2009 14:30

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/18/2009 17:02

Lab File ID: C15357.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.2196	0.2086	0.0500	38.0	40.0	-5.0	30.0
Pyridine	Ave	0.3031	0.3225	0.0500	42.6	40.0	6.4	30.0
Cyclohexanone	Ave	0.6186	0.6050	0.0500	39.1	40.0	-2.2	30.0
Benzaldehyde	Ave	0.1448	0.1774	0.0500	49.0	40.0	22.5	30.0
Aniline	Ave	2.206	2.099	0.0500	38.0	40.0	-4.9	30.0
Phenol	Ave	2.008	1.882	0.0500	37.5	40.0	-6.3	20.0
Bis(2-chloroethyl)ether	Ave	1.057	0.9923	0.0500	37.5	40.0	-6.2	30.0
2-Chlorophenol	Ave	1.516	1.467	0.0500	38.7	40.0	-3.2	30.0
1,3-Dichlorobenzene	Ave	1.694	1.632	0.0500	38.5	40.0	-3.7	30.0
1,4-Dichlorobenzene	Ave	1.725	1.655	0.0500	38.4	40.0	-4.1	20.0
Benzyl alcohol	Ave	1.022	0.9492	0.0500	37.1	40.0	-7.2	30.0
1,2-Dichlorobenzene	Ave	1.648	1.554	0.0500	37.7	40.0	-5.7	30.0
2-Methylphenol	Ave	1.467	1.389	0.0500	37.9	40.0	-5.3	30.0
2,2'-oxybis[1-chloropropane]	Ave	1.972	1.811	0.0500	36.7	40.0	-8.2	30.0
Acetophenone	Ave	2.261	2.114	0.0500	37.4	40.0	-6.5	30.0
N-Nitrosodi-n-propylamine	Ave	1.223	1.166	0.0500	38.2	40.0	-4.6	30.0
4-Methylphenol	Ave	1.555	1.482	0.0500	38.1	40.0	-4.7	30.0
Hexachloroethane	Ave	0.6945	0.6810	0.0500	39.2	40.0	-1.9	30.0
Nitrobenzene	Ave	0.3677	0.3560	0.0500	38.7	40.0	-3.2	30.0
Isophorone	Ave	0.6908	0.6516	0.0500	37.7	40.0	-5.7	30.0
2-Nitrophenol	Ave	0.1718	0.1854	0.0500	43.2	40.0	7.9	20.0
2,4-Dimethylphenol	Ave	0.3050	0.2934	0.0500	38.5	40.0	-3.8	30.0
Bis(2-chloroethoxy)methane	Ave	0.4126	0.3861	0.0500	37.4	40.0	-6.4	30.0
Benzoic acid	Lin	0.1773	0.2141	0.0500	44.3	40.0	10.9	30.0
2,4-Dichlorophenol	Ave	0.2998	0.2901	0.0500	38.7	40.0	-3.2	20.0
1,2,4-Trichlorobenzene	Ave	0.3233	0.3059	0.0500	37.8	40.0	-5.4	30.0
Naphthalene	Ave	1.083	1.023	0.0500	37.8	40.0	-5.6	30.0
4-Chloroaniline	Ave	0.4466	0.4273	0.0500	38.3	40.0	-4.3	30.0
Hexachlorobutadiene	Ave	0.2005	0.1910	0.0500	38.1	40.0	-4.8	20.0
Caprolactam	Ave	0.1245	0.1240	0.0500	39.8	40.0	-0.4	30.0
4-Chloro-3-methylphenol	Ave	0.3468	0.3364	0.0500	38.8	40.0	-3.0	20.0
2,4,5-Trichlorotoluene	Ave	1.516	1.414	0.0500	37.3	40.0	-6.7	30.0
2-Methylnaphthalene	Ave	0.7397	0.6984	0.0500	37.8	40.0	-5.6	30.0
Hexachlorocyclopentadiene	Ave	0.3068	0.3292	0.0500	42.9	40.0	7.3	30.0
2,4,6-Trichlorophenol	Ave	0.3329	0.3287	0.0500	39.5	40.0	-1.3	20.0
2,4,5-Trichlorophenol	Ave	0.3597	0.3435	0.0500	38.2	40.0	-4.5	30.0
1,1'-Biphenyl	Ave	1.275	1.179	0.0500	37.0	40.0	-7.5	30.0
2-Chloronaphthalene	Ave	1.045	0.9768	0.0500	37.4	40.0	-6.6	30.0
2-Nitroaniline	Ave	0.3308	0.3351	0.0500	40.5	40.0	1.3	30.0
Dimethyl phthalate	Ave	1.268	1.200	0.0500	37.9	40.0	-5.3	30.0
2,6-Dinitrotoluene	Ave	0.2723	0.2818	0.0500	41.4	40.0	3.5	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34490/1 Calibration Date: 12/21/2009 08:12

Instrument ID: MSC Calib Start Date: 12/18/2009 14:30

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/18/2009 17:02

Lab File ID: C15357.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthylene	Ave	1.774	1.651	0.0500	37.2	40.0	-7.0	30.0
3-Nitroaniline	Ave	0.3269	0.3347	0.0500	41.0	40.0	2.4	30.0
Acenaphthene	Ave	1.077	1.008	0.0500	37.4	40.0	-6.4	20.0
2,4-Dinitrophenol	Lin	0.1212	0.1523	0.0500	47.2	40.0	18.0	30.0
4-Nitrophenol	Ave	0.1733	0.1724	0.0500	39.8	40.0	-0.5	30.0
2,4-Dinitrotoluene	Ave	0.3860	0.3805	0.0500	39.4	40.0	-1.4	30.0
Dibenzofuran	Ave	1.586	1.464	0.0500	36.9	40.0	-7.7	30.0
Diethyl phthalate	Lin	1.713	1.224	0.0500	34.4	40.0	-13.9	30.0
Fluorene	Ave	1.298	1.215	0.0500	37.4	40.0	-6.4	30.0
4-Chlorophenyl phenyl ether	Ave	0.6101	0.5649	0.0500	37.0	40.0	-7.4	30.0
4-Nitroaniline	Ave	0.3581	0.3585	0.0500	40.0	40.0	0.1	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1203	0.1354	0.0500	45.0	40.0	12.5	30.0
N-Nitrosodiphenylamine	Ave	0.5699	0.5333	0.0500	37.4	40.0	-6.4	20.0
1,2-Diphenylhydrazine	Ave	0.8222	0.7643	0.0500	37.2	40.0	-7.0	30.0
4-Bromophenyl phenyl ether	Ave	0.2099	0.2034	0.0500	38.8	40.0	-3.1	30.0
Hexachlorobenzene	Ave	0.2259	0.2188	0.0500	38.7	40.0	-3.1	30.0
Simazine	Ave	0.1153	0.1167	0.0500	40.5	40.0	1.2	30.0
Atrazine	Ave	0.2211	0.2155	0.0500	39.0	40.0	-2.5	30.0
Pentachlorophenol	Ave	0.1366	0.1352	0.0500	39.6	40.0	-1.0	20.0
Benzidine	Ave	0.0271	0.0277*	0.0500	41.0	40.0	2.4	30.0
Phenanthrene	Ave	1.128	1.058	0.0500	37.5	40.0	-6.2	30.0
Anthracene	Ave	1.172	1.094	0.0500	37.3	40.0	-6.6	30.0
Carbazole	Ave	1.122	1.045	0.0500	37.3	40.0	-6.8	30.0
Di-n-butyl phthalate	Ave	1.352	1.284	0.0500	38.0	40.0	-5.0	30.0
Fluoranthene	Ave	1.301	1.232	0.0500	37.9	40.0	-5.3	20.0
Pyrene	Ave	1.192	1.152	0.0500	38.7	40.0	-3.3	30.0
3,3'-Dimethylbenzidine	Ave	0.2292	0.2676	0.0500	46.7	40.0	16.7	30.0
Butyl benzyl phthalate	Ave	0.5519	0.5463	0.0500	39.6	40.0	-1.0	30.0
3,3'-Dichlorobenzidine	Ave	0.3539	0.3779	0.0500	42.7	40.0	6.8	30.0
Benzo[a]anthracene	Ave	1.131	1.087	0.0500	38.4	40.0	-3.9	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.7528	0.7305	0.0500	38.8	40.0	-3.0	30.0
Chrysene	Ave	1.093	0.9877	0.0500	36.2	40.0	-9.6	30.0
Di-n-octyl phthalate	Ave	1.581	1.691	0.0500	42.8	40.0	6.9	20.0
Benzo[b]fluoranthene	Ave	1.384	1.365	0.0500	39.5	40.0	-1.3	30.0
Benzo[k]fluoranthene	Ave	1.507	1.353	0.0500	35.9	40.0	-10.2	30.0
Benzo[a]pyrene	Ave	1.179	1.149	0.0500	39.0	40.0	-2.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.035	1.036	0.0500	40.1	40.0	0.1	30.0
Dibenz(a,h)anthracene	Ave	1.100	1.092	0.0500	39.7	40.0	-0.7	30.0
Benzo[g,h,i]perylene	Ave	1.126	0.9542	0.0500	33.9	40.0	-15.3	30.0
2-Fluorophenol	Ave	1.269	1.233	0.0500	38.8	40.0	-2.9	30.0
Phenol-d5	Ave	1.776	1.695	0.0500	38.2	40.0	-4.6	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34490/1 Calibration Date: 12/21/2009 08:12

Instrument ID: MSC Calib Start Date: 12/18/2009 14:30

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/18/2009 17:02

Lab File ID: C15357.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene-d5	Ave	0.3702	0.3625	0.0500	39.2	40.0	-2.1	30.0
2-Fluorobiphenyl	Ave	1.207	1.130	0.0500	37.5	40.0	-6.4	30.0
2,4,6-Tribromophenol	Ave	0.1823	0.1868	0.0500	41.0	40.0	2.5	30.0
Terphenyl-d14	Ave	0.8321	0.8051	0.0500	38.7	40.0	-3.2	30.0

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915356.b\C15357.D
Lab Smp Id: CCVIS-398055 Client Smp ID: CCVIS-398055
Inj Date : 21-DEC-2009 08:12
Operator : S.Jonas Inst ID: msc.i
Smp Info : CCVIS-398055
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915356.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:37 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.051	5.051	(1.000)	305882	20.0000	
$ 2	2-Fluorophenol	112	3.579	3.579	(0.709)	754051	40.0000	39
$ 3	Phenol-d5	99	4.701	4.701	(0.931)	1036709	40.0000	38
4	Pyridine	52	1.697	1.697	(0.336)	197318	40.0000	43
5	N-Nitrosodimethylamine	42	1.674	1.674	(0.331)	127612	40.0000	38
6	Cyclohexanone	42	3.810	3.810	(0.754)	370144	40.0000	39
128	Benzaldehyde	77	4.558	4.558	(0.902)	108497	40.0000	49
7	Phenol	94	4.713	4.713	(0.933)	1151516	40.0000	37
8	Aniline	93	4.695	4.695	(0.929)	1283794	40.0000	38
9	bis(2-Chloroethyl)ether	63	4.790	4.790	(0.948)	607021	40.0000	38
10	2-Chlorophenol	128	4.819	4.819	(0.954)	897589	40.0000	39
11	1,3-Dichlorobenzene	146	4.986	4.986	(0.987)	998090	40.0000	39
12	1,4-Dichlorobenzene	146	5.069	5.069	(1.004)	1012299	40.0000	38
13	Benzyl alcohol	108	5.223	5.223	(1.034)	580676	40.0000	37
14	1,2-Dichlorobenzene	146	5.229	5.229	(1.035)	950947	40.0000	38
15	2,2'-oxybis(1-Chloropropane)	45	5.377	5.377	(1.065)	1107815	40.0000	37
16	2-Methylphenol	108	5.365	5.365	(1.062)	849850	40.0000	38
92	Acetophenone	105	5.502	5.502	(1.089)	1293111	40.0000	37
17	Hexachloroethane	117	5.597	5.597	(1.108)	416628	40.0000	39
18	N-Nitroso-di-n-propylamine	70	5.520	5.520	(1.093)	713608	40.0000	38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.532	5.532	(1.095)	906551	40.0000	38
*	20 Naphthalene-d8	136	6.428	6.428	(1.000)	1511566	20.0000	
$	21 Nitrobenzene-d5	82	5.656	5.656	(0.880)	1095967	40.0000	39
	22 Nitrobenzene	77	5.674	5.674	(0.883)	1076280	40.0000	39
	23 Isophorone	82	5.941	5.941	(0.924)	1969917	40.0000	38
	24 2-Nitrophenol	139	6.024	6.024	(0.937)	560444	40.0000	43
	25 2,4-Dimethylphenol	122	6.101	6.101	(0.949)	886999	40.0000	38
	26 Benzoic Acid	122	6.226	6.226	(0.969)	647170	40.0000	44
	27 Bis(2-Chloroethoxy)methane	93	6.196	6.196	(0.964)	1167181	40.0000	37
	28 2,4-Dichlorophenol	162	6.285	6.285	(0.978)	877081	40.0000	39
	29 1,2,4-Trichlorobenzene	180	6.374	6.374	(0.992)	924640	40.0000	38
	30 Naphthalene	128	6.446	6.446	(1.003)	3091750	40.0000	38
	31 4-Chloroaniline	127	6.517	6.517	(1.014)	1291739	40.0000	38
	32 Hexachlorobutadiene	225	6.606	6.606	(1.028)	577343	40.0000	38
	129 Caprolactam	113	6.915	6.915	(1.076)	374943	40.0000	40
	33 4-Chloro-3-methylphenol	107	7.057	7.057	(1.098)	1016921	40.0000	39
	34 2-Methylnaphthalene	142	7.193	7.193	(1.119)	2111219	40.0000	38
*	35 Acenaphthene-d10	164	8.309	8.309	(1.000)	1084647	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.158	7.158	(1.417)	865301	40.0000	37
	37 Hexachlorocyclopentadiene	237	7.377	7.377	(0.888)	714164	40.0000	43
	38 2,4,6-Trichlorophenol	196	7.508	7.508	(0.904)	713030	40.0000	39
	39 2,4,5-Trichlorophenol	196	7.544	7.544	(0.908)	745099	40.0000	38
$	40 2-Fluorobiphenyl	172	7.597	7.597	(0.914)	2452210	40.0000	37
	130 1,1'-Biphenyl	154	7.704	7.704	(0.927)	2556915	40.0000	37
	41 2-Chloronaphthalene	162	7.716	7.716	(0.929)	2119063	40.0000	37
	42 2-Nitroaniline	65	7.829	7.829	(0.942)	726871	40.0000	41
	43 Acenaphthylene	152	8.155	8.155	(0.981)	3580730	40.0000	37
	44 Dimethylphthalate	163	8.042	8.042	(0.968)	2603162	40.0000	38
	45 2,6-Dinitrotoluene	165	8.096	8.096	(0.974)	611366	40.0000	41
	46 Acenaphthene	153	8.345	8.345	(1.004)	2186841	40.0000	37
	47 3-Nitroaniline	138	8.268	8.268	(0.995)	725945	40.0000	41
	48 2,4-Dinitrophenol	184	8.381	8.381	(1.009)	330310	40.0000	47
	49 Dibenzofuran	168	8.529	8.529	(1.026)	3176112	40.0000	37
	50 2,4-Dinitrotoluene	165	8.523	8.523	(1.026)	825329	40.0000	39
	51 4-Nitrophenol	109	8.464	8.464	(1.019)	373968	40.0000	40
	52 Fluorene	166	8.897	8.897	(1.071)	2635790	40.0000	37
	53 4-Chlorophenyl-phenylether	204	8.903	8.903	(1.071)	1225325	40.0000	37
	54 Diethylphthalate	149	8.796	8.796	(1.059)	2654133	40.0000	34
	55 4-Nitroaniline	138	8.927	8.927	(1.074)	777751	40.0000	40
$	56 2,4,6-Tribromophenol	330	9.152	9.152	(1.101)	405296	40.0000	41
*	57 Phenanthrene-d10	188	9.894	9.894	(1.000)	1903171	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.956	8.956	(0.905)	515283	40.0000	45
	59 N-Nitrosodiphenylamine (1)	169	9.027	9.027	(0.912)	2030061	40.0000	37
	60 1,2-Diphenylhydrazine	77	9.069	9.069	(0.917)	2909220	40.0000	37
	61 4-Bromophenyl-phenylether	248	9.419	9.419	(0.952)	774135	40.0000	39
	131 Atrazine	200	9.609	9.609	(0.971)	820073	40.0000	39
	62 Hexachlorobenzene	284	9.490	9.490	(0.959)	832677	40.0000	39
	63 Pentachlorophenol	266	9.698	9.698	(0.980)	514628	40.0000	40
	64 Phenanthrene	178	9.918	9.918	(1.002)	4027571	40.0000	38
	65 Carbazole	167	10.149	10.149	(1.026)	3978682	40.0000	37
	66 Anthracene	178	9.971	9.971	(1.008)	4162816	40.0000	37
	67 Di-n-butylphthalate	149	10.535	10.535	(1.065)	4888081	40.0000	38
	68 Fluoranthene	202	11.188	11.188	(1.131)	4688134	40.0000	38
*	70 Chrysene-d12	240	12.862	12.862	(1.000)	2084310	20.0000	

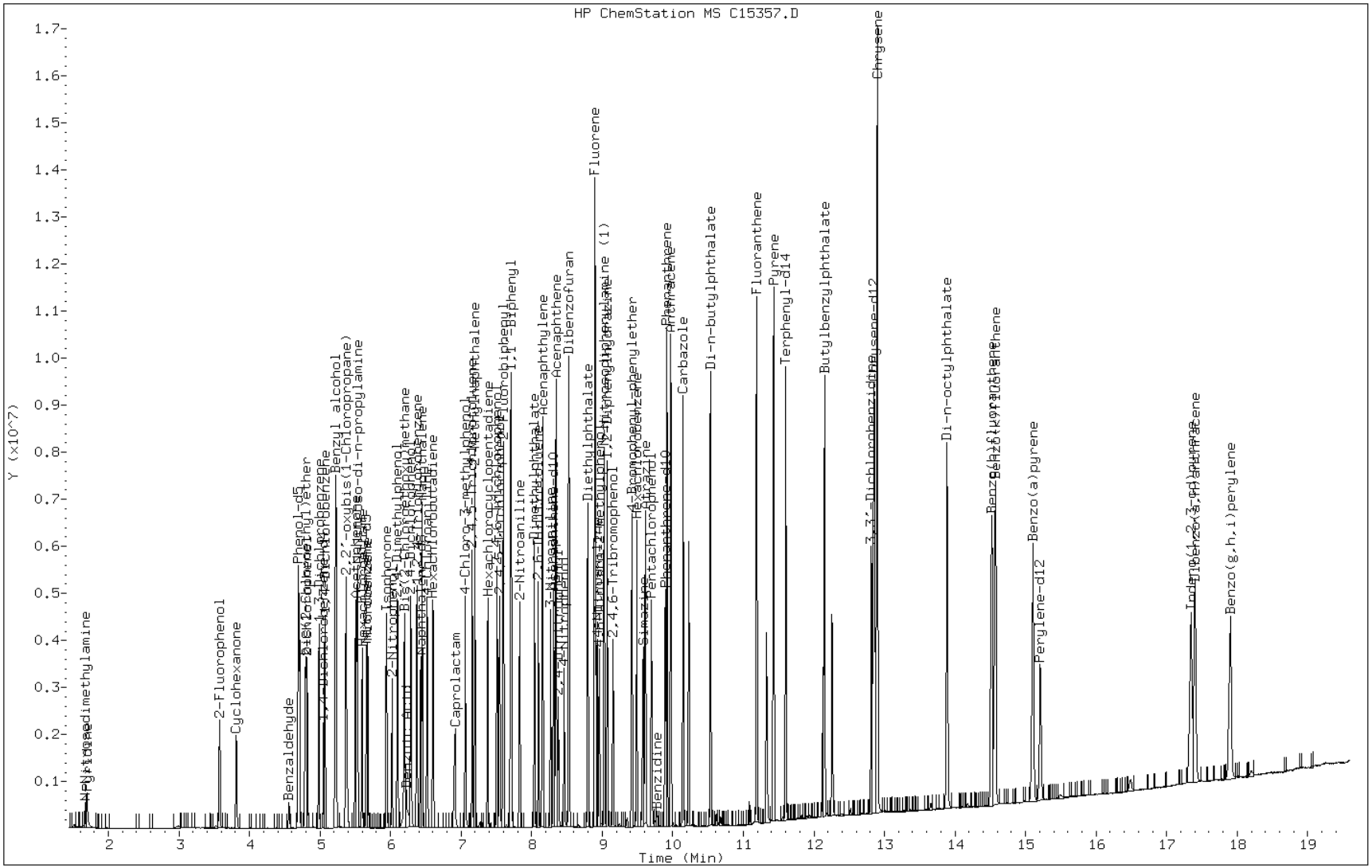
							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	71 Benzidine	184	9.781	9.781	(0.761)	115609	40.0000	41
	72 Pyrene	202	11.431	11.431	(0.889)	4803582	40.0000	39
$	73 Terphenyl-d14	244	11.603	11.603	(0.902)	3356227	40.0000	39
	74 Butylbenzylphthalate	149	12.149	12.149	(0.945)	2277218	40.0000	40
	124 3,3'-Dimethylbenzidine	212	12.132	12.132	(0.943)	1115485	40.0000	47
	75 3,3'-Dichlorobenzidine	252	12.814	12.814	(0.996)	1575379	40.0000	43
	76 Benzo(a)anthracene	228	12.850	12.850	(0.999)	4529845	40.0000	38
	77 Chrysene	228	12.903	12.903	(1.003)	4117473	40.0000	36
	78 Bis(2-Ethylhexyl)phthalate	149	12.897	12.897	(1.003)	3045131	40.0000	39
*	79 Perylene-d12	264	15.206	15.206	(1.000)	1631551	20.0000	
	80 Di-n-octylphthalate	149	13.888	13.888	(0.913)	5517376	40.0000	43
	81 Benzo(b)fluoranthene	252	14.524	14.524	(0.955)	4455531	40.0000	39
	82 Benzo(k)fluoranthene	252	14.571	14.571	(0.958)	4415913	40.0000	36
	83 Benzo(a)pyrene	252	15.105	15.105	(0.993)	3748349	40.0000	39
	84 Indeno(1,2,3-cd)pyrene	276	17.349	17.349	(1.141)	3381549	40.0000	40
	85 Dibenzo(a,h)anthracene	278	17.402	17.402	(1.144)	3564080	40.0000	40
	86 Benzo(g,h,i)perylene	276	17.907	17.907	(1.178)	3113527	40.0000	34
	167 Simazine	201	9.579	9.579	(0.968)	444153	40.0000	40

Data File: C15357.D

Date: 21-DEC-2009 08:12

Client ID: CCVIS-398055 Instrument: msc.i

Sample Info: CCVIS-398055 Operator: S.Jonas



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34531/1 Calibration Date: 12/22/2009 07:51

Instrument ID: MSC Calib Start Date: 12/18/2009 14:30

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/18/2009 17:02

Lab File ID: C15383.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.2196	0.2349	0.0500	42.8	40.0	7.0	30.0
Pyridine	Ave	0.3031	0.3373	0.0500	44.5	40.0	11.3	30.0
Cyclohexanone	Ave	0.6186	0.6014	0.0500	38.9	40.0	-2.8	30.0
Benzaldehyde	Ave	0.1448	0.2601	0.0500	71.8	40.0	79.6*	30.0
Aniline	Ave	2.206	2.130	0.0500	38.6	40.0	-3.5	30.0
Phenol	Ave	2.008	1.918	0.0500	38.2	40.0	-4.5	20.0
Bis(2-chloroethyl)ether	Ave	1.057	1.022	0.0500	38.7	40.0	-3.3	30.0
2-Chlorophenol	Ave	1.516	1.489	0.0500	39.3	40.0	-1.8	30.0
1,3-Dichlorobenzene	Ave	1.694	1.646	0.0500	38.9	40.0	-2.8	30.0
1,4-Dichlorobenzene	Ave	1.725	1.679	0.0500	38.9	40.0	-2.7	20.0
Benzyl alcohol	Ave	1.022	0.9500	0.0500	37.2	40.0	-7.1	30.0
1,2-Dichlorobenzene	Ave	1.648	1.586	0.0500	38.5	40.0	-3.8	30.0
2-Methylphenol	Ave	1.467	1.434	0.0500	39.1	40.0	-2.3	30.0
2,2'-oxybis[1-chloropropane]	Ave	1.972	1.804	0.0500	36.6	40.0	-8.5	30.0
Acetophenone	Ave	2.261	2.166	0.0500	38.3	40.0	-4.2	30.0
N-Nitrosodi-n-propylamine	Ave	1.223	1.174	0.0500	38.4	40.0	-4.0	30.0
4-Methylphenol	Ave	1.555	1.520	0.0500	39.1	40.0	-2.3	30.0
Hexachloroethane	Ave	0.6945	0.7053	0.0500	40.6	40.0	1.6	30.0
Nitrobenzene	Ave	0.3677	0.3623	0.0500	39.4	40.0	-1.5	30.0
Isophorone	Ave	0.6908	0.6729	0.0500	39.0	40.0	-2.6	30.0
2-Nitrophenol	Ave	0.1718	0.1978	0.0500	46.1	40.0	15.1	20.0
2,4-Dimethylphenol	Ave	0.3050	0.3039	0.0500	39.9	40.0	-0.4	30.0
Bis(2-chloroethoxy)methane	Ave	0.4126	0.3942	0.0500	38.2	40.0	-4.5	30.0
Benzoic acid	Lin	0.1773	0.2117	0.0500	43.9	40.0	9.7	30.0
2,4-Dichlorophenol	Ave	0.2998	0.2979	0.0500	39.7	40.0	-0.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3233	0.3192	0.0500	39.5	40.0	-1.3	30.0
Naphthalene	Ave	1.083	1.055	0.0500	39.0	40.0	-2.6	30.0
4-Chloroaniline	Ave	0.4466	0.4450	0.0500	39.9	40.0	-0.4	30.0
Hexachlorobutadiene	Ave	0.2005	0.2027	0.0500	40.4	40.0	1.1	20.0
Caprolactam	Ave	0.1245	0.1305	0.0500	41.9	40.0	4.8	30.0
4-Chloro-3-methylphenol	Ave	0.3468	0.3496	0.0500	40.3	40.0	0.8	20.0
2,4,5-Trichlorotoluene	Ave	1.516	1.481	0.0500	39.1	40.0	-2.3	30.0
2-Methylnaphthalene	Ave	0.7397	0.7363	0.0500	39.8	40.0	-0.5	30.0
Hexachlorocyclopentadiene	Ave	0.3068	0.3380	0.0500	44.1	40.0	10.2	30.0
2,4,6-Trichlorophenol	Ave	0.3329	0.3310	0.0500	39.8	40.0	-0.6	20.0
2,4,5-Trichlorophenol	Ave	0.3597	0.3633	0.0500	40.4	40.0	1.0	30.0
1,1'-Biphenyl	Ave	1.275	1.175	0.0500	36.9	40.0	-7.8	30.0
2-Chloronaphthalene	Ave	1.045	0.9833	0.0500	37.6	40.0	-5.9	30.0
2-Nitroaniline	Ave	0.3308	0.3444	0.0500	41.6	40.0	4.1	30.0
Dimethyl phthalate	Ave	1.268	1.221	0.0500	38.5	40.0	-3.7	30.0
2,6-Dinitrotoluene	Ave	0.2723	0.2950	0.0500	43.3	40.0	8.3	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34531/1 Calibration Date: 12/22/2009 07:51

Instrument ID: MSC Calib Start Date: 12/18/2009 14:30

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/18/2009 17:02

Lab File ID: C15383.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthylene	Ave	1.774	1.682	0.0500	37.9	40.0	-5.2	30.0
3-Nitroaniline	Ave	0.3269	0.3510	0.0500	42.9	40.0	7.4	30.0
Acenaphthene	Ave	1.077	1.046	0.0500	38.8	40.0	-2.9	20.0
2,4-Dinitrophenol	Lin	0.1212	0.1708	0.0500	51.6	40.0	29.0	30.0
4-Nitrophenol	Ave	0.1733	0.1858	0.0500	42.9	40.0	7.2	30.0
2,4-Dinitrotoluene	Ave	0.3860	0.3976	0.0500	41.2	40.0	3.0	30.0
Dibenzofuran	Ave	1.586	1.491	0.0500	37.6	40.0	-6.0	30.0
Diethyl phthalate	Lin	1.713	1.261	0.0500	35.7	40.0	-10.8	30.0
Fluorene	Ave	1.298	1.244	0.0500	38.3	40.0	-4.2	30.0
4-Chlorophenyl phenyl ether	Ave	0.6101	0.5914	0.0500	38.8	40.0	-3.1	30.0
4-Nitroaniline	Ave	0.3581	0.3783	0.0500	42.3	40.0	5.6	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1203	0.1474	0.0500	49.0	40.0	22.5	30.0
N-Nitrosodiphenylamine	Ave	0.5699	0.5555	0.0500	39.0	40.0	-2.5	20.0
1,2-Diphenylhydrazine	Ave	0.8222	0.7880	0.0500	38.3	40.0	-4.2	30.0
4-Bromophenyl phenyl ether	Ave	0.2099	0.2069	0.0500	39.4	40.0	-1.4	30.0
Hexachlorobenzene	Ave	0.2259	0.2243	0.0500	39.7	40.0	-0.7	30.0
Simazine	Ave	0.1153	0.1197	0.0500	41.5	40.0	3.8	30.0
Atrazine	Ave	0.2211	0.2171	0.0500	39.3	40.0	-1.8	30.0
Pentachlorophenol	Ave	0.1366	0.1468	0.0500	43.0	40.0	7.5	20.0
Benzidine	Ave	0.0271	0.0264*	0.0500	39.0	40.0	-2.6	30.0
Phenanthrene	Ave	1.128	1.108	0.0500	39.3	40.0	-1.8	30.0
Anthracene	Ave	1.172	1.149	0.0500	39.2	40.0	-1.9	30.0
Carbazole	Ave	1.122	1.126	0.0500	40.1	40.0	0.3	30.0
Di-n-butyl phthalate	Ave	1.352	1.340	0.0500	39.6	40.0	-0.9	30.0
Fluoranthene	Ave	1.301	1.302	0.0500	40.0	40.0	0.1	20.0
Pyrene	Ave	1.192	1.135	0.0500	38.1	40.0	-4.8	30.0
3,3'-Dimethylbenzidine	Ave	0.2292	0.3249	0.0500	56.7	40.0	41.7*	30.0
Butyl benzyl phthalate	Ave	0.5519	0.5459	0.0500	39.6	40.0	-1.1	30.0
3,3'-Dichlorobenzidine	Ave	0.3539	0.3935	0.0500	44.5	40.0	11.2	30.0
Benzo[a]anthracene	Ave	1.131	1.121	0.0500	39.6	40.0	-0.9	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.7528	0.7268	0.0500	38.6	40.0	-3.5	30.0
Chrysene	Ave	1.093	1.020	0.0500	37.4	40.0	-6.6	30.0
Di-n-octyl phthalate	Ave	1.581	1.722	0.0500	43.6	40.0	8.9	20.0
Benzo[b]fluoranthene	Ave	1.384	1.371	0.0500	39.6	40.0	-1.0	30.0
Benzo[k]fluoranthene	Ave	1.507	1.468	0.0500	39.0	40.0	-2.6	30.0
Benzo[a]pyrene	Ave	1.179	1.189	0.0500	40.3	40.0	0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.035	1.017	0.0500	39.3	40.0	-1.8	30.0
Dibenz(a,h)anthracene	Ave	1.100	1.087	0.0500	39.5	40.0	-1.1	30.0
Benzo[g,h,i]perylene	Ave	1.126	0.9469	0.0500	33.6	40.0	-15.9	30.0
2-Fluorophenol	Ave	1.269	1.248	0.0500	39.3	40.0	-1.7	30.0
Phenol-d5	Ave	1.776	1.724	0.0500	38.8	40.0	-3.0	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: CCVIS 220-34531/1 Calibration Date: 12/22/2009 07:51

Instrument ID: MSC Calib Start Date: 12/18/2009 14:30

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/18/2009 17:02

Lab File ID: C15383.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene-d5	Ave	0.3702	0.3788	0.0500	40.9	40.0	2.3	30.0
2-Fluorobiphenyl	Ave	1.207	1.126	0.0500	37.3	40.0	-6.7	30.0
2,4,6-Tribromophenol	Ave	0.1823	0.1926	0.0500	42.3	40.0	5.7	30.0
Terphenyl-d14	Ave	0.8321	0.7929	0.0500	38.1	40.0	-4.7	30.0

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15383.D
Lab Smp Id: CCVIS-398055 Client Smp ID: CCVIS-398055
Inj Date : 22-DEC-2009 07:51
Operator : S.Jonas Inst ID: msc.i
Smp Info : CCVIS-398055
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 1	1,4-Dichlorobenzene-d4	152	5.021	5.021	(1.000)	256849	20.0000	
$ 2	2-Fluorophenol	112	3.549	3.549	(0.707)	640903	40.0000	39
$ 3	Phenol-d5	99	4.671	4.671	(0.930)	885540	40.0000	39
4	Pyridine	52	1.674	1.674	(0.333)	173266	40.0000	45
5	N-Nitrosodimethylamine	42	1.656	1.656	(0.330)	120645	40.0000	43
6	Cyclohexanone	42	3.787	3.787	(0.754)	308955	40.0000	39
128	Benzaldehyde	77	4.534	4.534	(0.903)	133595	40.0000	72
7	Phenol	94	4.689	4.689	(0.934)	985338	40.0000	38
8	Aniline	93	4.665	4.665	(0.929)	1094089	40.0000	39
9	bis(2-Chloroethyl)ether	63	4.760	4.760	(0.948)	525074	40.0000	39
10	2-Chlorophenol	128	4.790	4.790	(0.954)	764989	40.0000	39
11	1,3-Dichlorobenzene	146	4.956	4.956	(0.987)	845733	40.0000	39
12	1,4-Dichlorobenzene	146	5.039	5.039	(1.004)	862251	40.0000	39
13	Benzyl alcohol	108	5.193	5.193	(1.034)	487985	40.0000	37
14	1,2-Dichlorobenzene	146	5.205	5.205	(1.037)	814826	40.0000	38
15	2,2'-oxybis(1-Chloropropane)	45	5.354	5.354	(1.066)	926595	40.0000	37
16	2-Methylphenol	108	5.336	5.336	(1.063)	736551	40.0000	39
92	Acetophenone	105	5.472	5.472	(1.090)	1112782	40.0000	38
17	Hexachloroethane	117	5.567	5.567	(1.109)	362306	40.0000	41
18	N-Nitroso-di-n-propylamine	70	5.490	5.490	(1.093)	602940	40.0000	38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19 4-Methylphenol	108	5.502	5.502	(1.096)	780961	40.0000	39
*	20 Naphthalene-d8	136	6.398	6.398	(1.000)	1255588	20.0000	
$	21 Nitrobenzene-d5	82	5.627	5.627	(0.879)	951178	40.0000	41
	22 Nitrobenzene	77	5.650	5.650	(0.883)	909877	40.0000	39
	23 Isophorone	82	5.917	5.917	(0.925)	1689635	40.0000	39
	24 2-Nitrophenol	139	5.995	5.995	(0.937)	496620	40.0000	46
	25 2,4-Dimethylphenol	122	6.072	6.072	(0.949)	763080	40.0000	40
	26 Benzoic Acid	122	6.202	6.202	(0.969)	531532	40.0000	44(M)
	27 Bis(2-Chloroethoxy)methane	93	6.167	6.167	(0.964)	989988	40.0000	38
	28 2,4-Dichlorophenol	162	6.256	6.256	(0.978)	747996	40.0000	40
	29 1,2,4-Trichlorobenzene	180	6.345	6.345	(0.992)	801575	40.0000	39
	30 Naphthalene	128	6.416	6.416	(1.003)	2649523	40.0000	39
	31 4-Chloroaniline	127	6.493	6.493	(1.015)	1117544	40.0000	40
	32 Hexachlorobutadiene	225	6.576	6.576	(1.028)	509057	40.0000	40
	129 Caprolactam	113	6.879	6.879	(1.075)	327612	40.0000	42
	33 4-Chloro-3-methylphenol	107	7.027	7.027	(1.098)	877930	40.0000	40
	34 2-Methylnaphthalene	142	7.164	7.164	(1.120)	1848960	40.0000	40
*	35 Acenaphthene-d10	164	8.274	8.274	(1.000)	943164	20.0000	
	36 2,4,5-Trichlorotoluene	159	7.128	7.128	(1.420)	760780	40.0000	39
	37 Hexachlorocyclopentadiene	237	7.348	7.348	(0.888)	637596	40.0000	44
	38 2,4,6-Trichlorophenol	196	7.478	7.478	(0.904)	624367	40.0000	40
	39 2,4,5-Trichlorophenol	196	7.514	7.514	(0.908)	685235	40.0000	40
$	40 2-Fluorobiphenyl	172	7.567	7.567	(0.915)	2123698	40.0000	37
	130 1,1'-Biphenyl	154	7.668	7.668	(0.927)	2217195	40.0000	37
	41 2-Chloronaphthalene	162	7.680	7.680	(0.928)	1854788	40.0000	38
	42 2-Nitroaniline	65	7.799	7.799	(0.943)	649719	40.0000	42
	43 Acenaphthylene	152	8.119	8.119	(0.981)	3172224	40.0000	38
	44 Dimethylphthalate	163	8.007	8.007	(0.968)	2302525	40.0000	39
	45 2,6-Dinitrotoluene	165	8.060	8.060	(0.974)	556472	40.0000	43
	46 Acenaphthene	153	8.309	8.309	(1.004)	1972432	40.0000	39
	47 3-Nitroaniline	138	8.238	8.238	(0.996)	662032	40.0000	43
	48 2,4-Dinitrophenol	184	8.345	8.345	(1.009)	322095	40.0000	52
	49 Dibenzofuran	168	8.493	8.493	(1.027)	2812032	40.0000	38
	50 2,4-Dinitrotoluene	165	8.487	8.487	(1.026)	749928	40.0000	41
	51 4-Nitrophenol	109	8.428	8.428	(1.019)	350424	40.0000	43
	52 Fluorene	166	8.861	8.861	(1.071)	2346569	40.0000	38
	53 4-Chlorophenyl-phenylether	204	8.867	8.867	(1.072)	1115659	40.0000	39
	54 Diethylphthalate	149	8.766	8.766	(1.060)	2378734	40.0000	36
	55 4-Nitroaniline	138	8.891	8.891	(1.075)	713666	40.0000	42
$	56 2,4,6-Tribromophenol	330	9.117	9.117	(1.102)	363341	40.0000	42
*	57 Phenanthrene-d10	188	9.852	9.852	(1.000)	1654184	20.0000	(H)
	58 4,6-Dinitro-2-methylphenol	198	8.921	8.921	(0.905)	487728	40.0000	49
	59 N-Nitrosodiphenylamine (1)	169	8.998	8.998	(0.913)	1837779	40.0000	39(H)
	60 1,2-Diphenylhydrazine	77	9.039	9.039	(0.917)	2606820	40.0000	38(H)
	61 4-Bromophenyl-phenylether	248	9.390	9.390	(0.953)	684424	40.0000	39(H)
	131 Atrazine	200	9.579	9.579	(0.972)	718156	40.0000	39
	62 Hexachlorobenzene	284	9.455	9.455	(0.960)	742000	40.0000	40
	63 Pentachlorophenol	266	9.663	9.663	(0.981)	485628	40.0000	43
	64 Phenanthrene	178	9.882	9.882	(1.003)	3665237	40.0000	39(H)
	65 Carbazole	167	10.108	10.108	(1.026)	3724269	40.0000	40
	66 Anthracene	178	9.936	9.936	(1.008)	3801093	40.0000	39(H)
	67 Di-n-butylphthalate	149	10.499	10.499	(1.066)	4433189	40.0000	40
	68 Fluoranthene	202	11.146	11.146	(1.131)	4308571	40.0000	40
*	70 Chrysene-d12	240	12.808	12.808	(1.000)	1942788	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
71	Benzidine	184	9.746	9.746	(0.761)	102539	40.0000	39
72	Pyrene	202	11.390	11.390	(0.889)	4409298	40.0000	38
$ 73	Terphenyl-d14	244	11.562	11.562	(0.903)	3080990	40.0000	38
74	Butylbenzylphthalate	149	12.108	12.108	(0.945)	2120992	40.0000	40
124	3,3'-Dimethylbenzidine	212	12.084	12.084	(0.943)	1262498	40.0000	57
75	3,3'-Dichlorobenzidine	252	12.767	12.767	(0.997)	1529002	40.0000	44
76	Benzo(a)anthracene	228	12.796	12.796	(0.999)	4354515	40.0000	40
77	Chrysene	228	12.850	12.850	(1.003)	3965112	40.0000	37
78	Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	2823969	40.0000	39
* 79	Perylene-d12	264	15.129	15.129	(1.000)	1483134	20.0000	
80	Di-n-octylphthalate	149	13.829	13.829	(0.914)	5107053	40.0000	44
81	Benzo(b)fluoranthene	252	14.452	14.452	(0.955)	4065687	40.0000	40
82	Benzo(k)fluoranthene	252	14.500	14.500	(0.958)	4354495	40.0000	39
83	Benzo(a)pyrene	252	15.028	15.028	(0.993)	3526395	40.0000	40
84	Indeno(1,2,3-cd)pyrene	276	17.242	17.242	(1.140)	3016005	40.0000	39
85	Dibenzo(a,h)anthracene	278	17.301	17.301	(1.144)	3224091	40.0000	40
86	Benzo(g,h,i)perylene	276	17.794	17.794	(1.176)	2808597	40.0000	34
167	Simazine	201	9.544	9.544	(0.969)	396160	40.0000	42(H)

QC Flag Legend

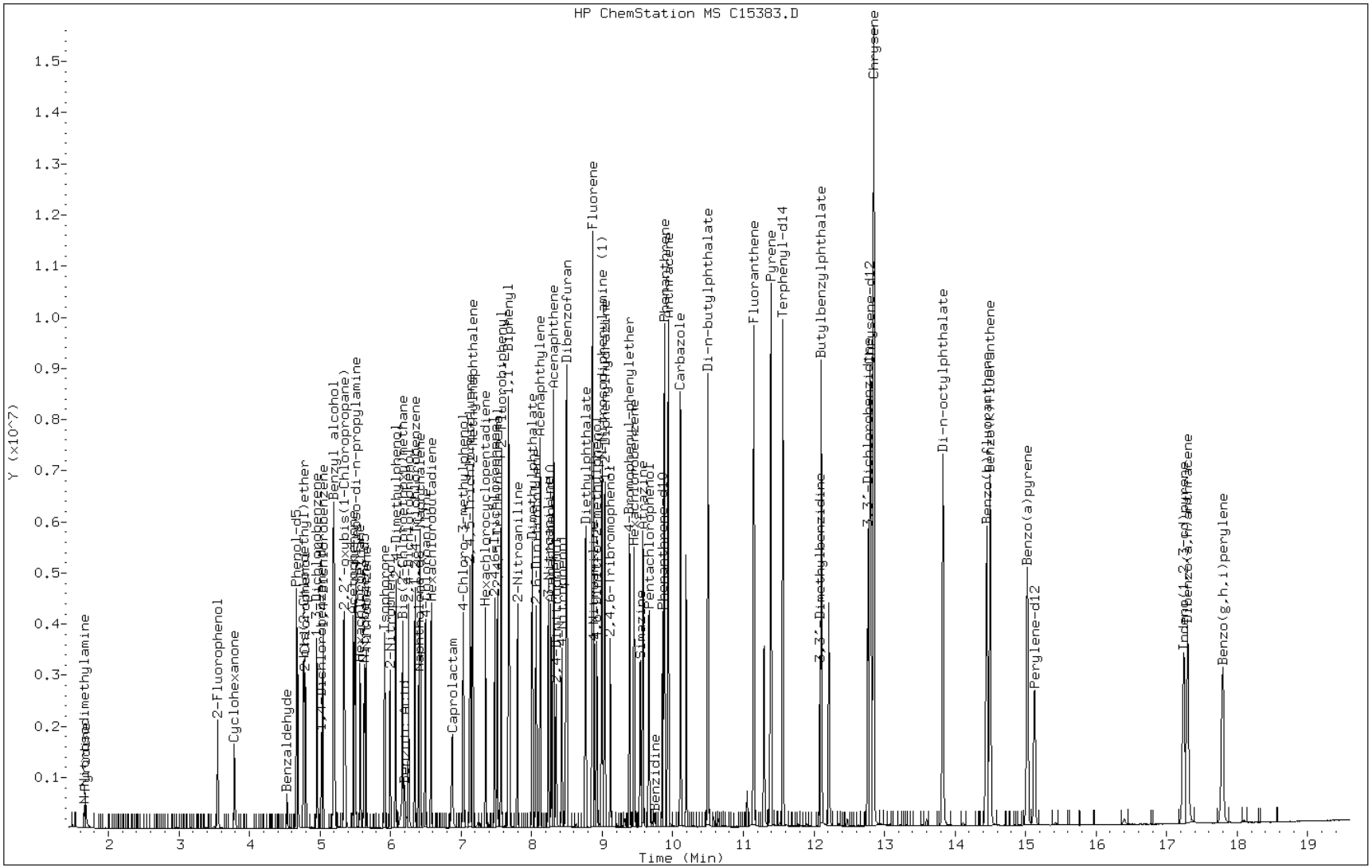
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: C15383.D

Date: 22-DEC-2009 07:51

Client ID: CCVIS-398055 Instrument: msc.i

Sample Info: CCVIS-398055 Operator: S.Jonas



Manual Integration Report

Data File: C15383.D
Inj. Date and Time: 22-DEC-2009 07:51
Instrument ID: msc.i
Client ID: CCVIS-398055
Compound: 26 Benzoic Acid
CAS #: 65-85-0
Report Date: 12/22/2009

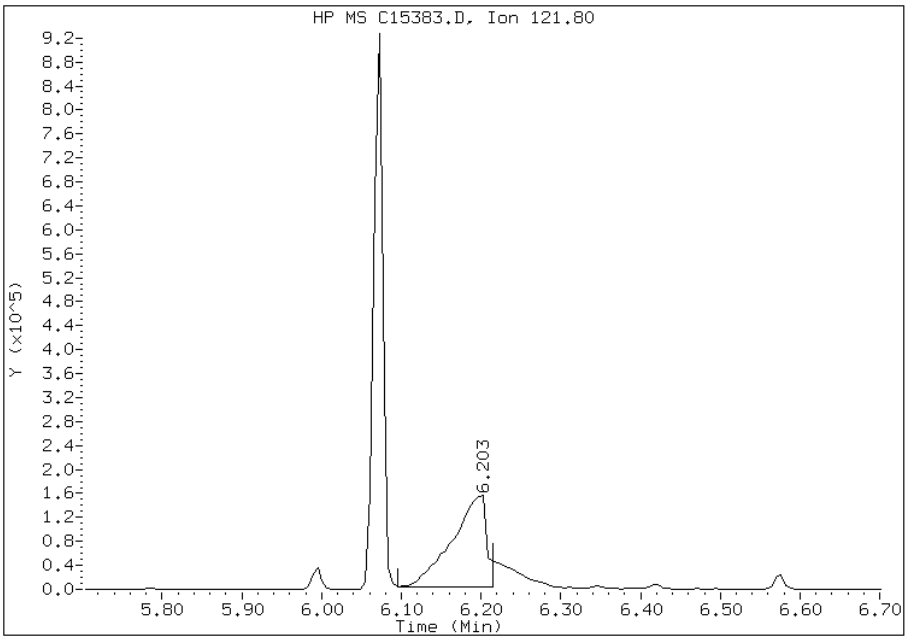
Processing Integration Results

RT: 6.20

Response: 452961

Amount: 38

Conc: 38



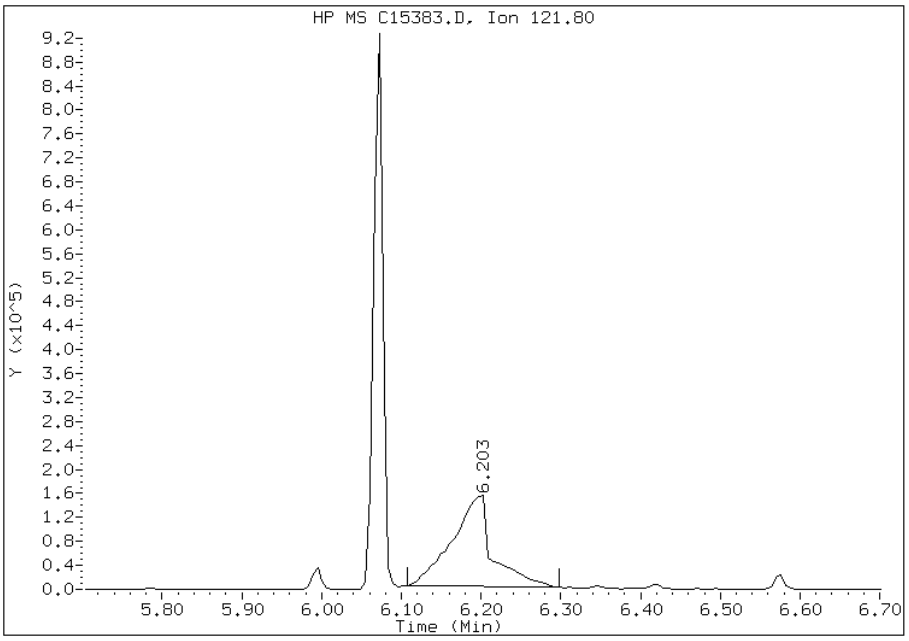
Manual Integration Results

RT: 6.20

Response: 531532

Amount: 44

Conc: 44



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

TestAmerica Inc

Data file : \\consvr05\files\chem\BNA\msa.i\A099200.b\As9212.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-DEC-2009 13:16
Operator : smith Inst ID: msa.i
Smp Info : DFTPP
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msa.i\A099200.b\msadftppSW.m
Meth Date : 25-Jun-2009 10:09 stephan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CONMSA

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

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

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
9.975	9.782	0.193	198	354560			0.00- 100.00	100.00
9.975	7.746	2.229	51	159744			30.00- 60.00	45.05
9.975	7.746	2.229	68	2473			0.00- 2.00	1.41
9.975	7.746	2.229	69	174848			0.00- 100.00	49.31
9.975	7.746	2.229	70	676			0.00- 2.00	0.39
9.975	7.746	2.229	127	187456			40.00- 60.00	52.87
9.975	7.746	2.229	197	1584			0.00- 1.00	0.45
9.975	7.746	2.229	199	24240			5.00- 9.00	6.84
9.975	7.746	2.229	275	74728			10.00- 30.00	21.08
9.975	7.746	2.229	365	8140			1.00- 100.00	2.30
9.975	7.746	2.229	441	31824			0.01- 99.99	77.95
9.975	7.746	2.229	442	214976			40.00- 100.00	60.63
9.975	7.746	2.229	443	40824			17.00- 23.00	18.99

Data File: As9212.D

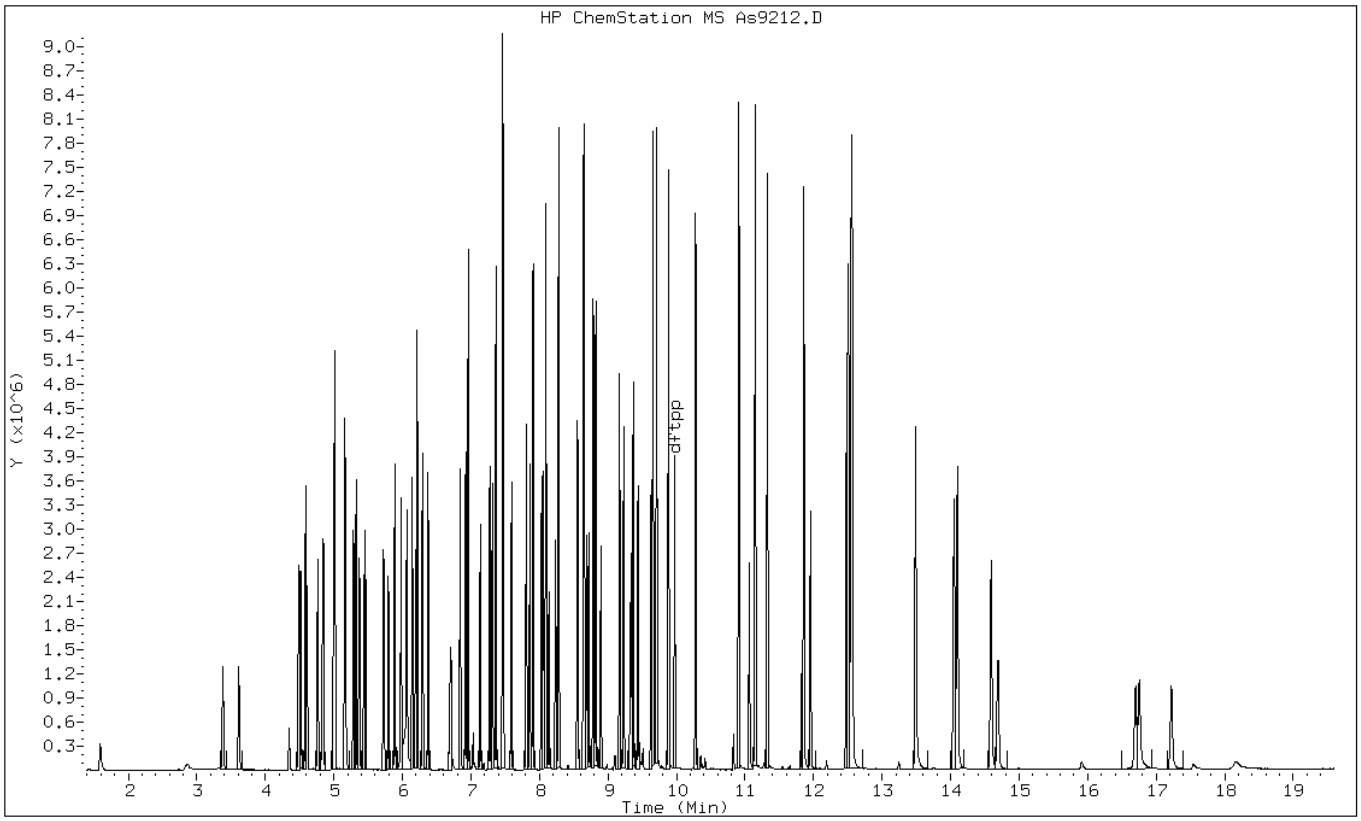
Date: 21-DEC-2009 13:16

Client ID: DFTPP

Instrument: msa.i

Sample Info: DFTPP

Operator: smith



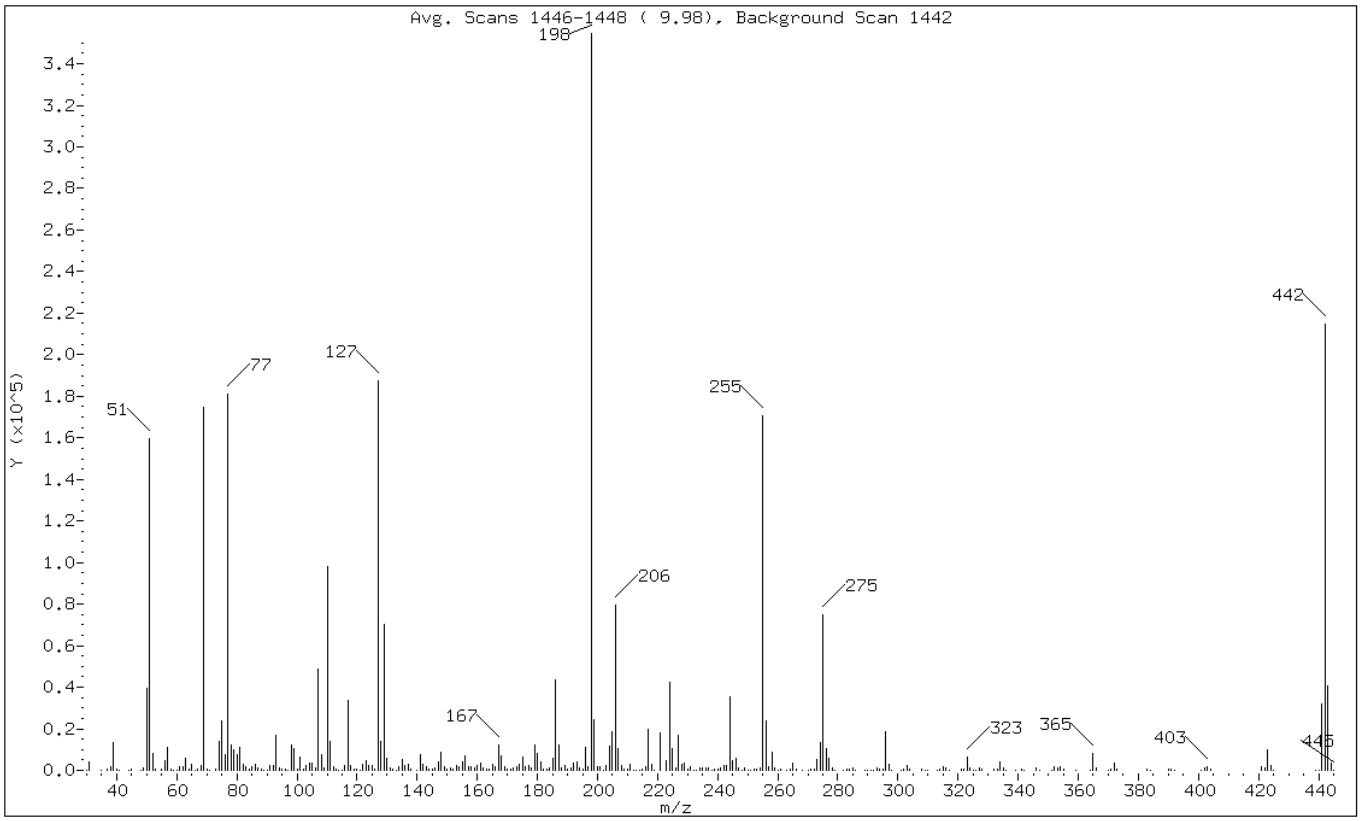
Data File: As9212.D

Date: 21-DEC-2009 13:16

Client ID: DFTPP Instrument: msa.i

Sample Info: DFTPP Operator: smith

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.05
68	Less than 2.00% of mass 69	0.70 (1.41)
69	Less than 100.00% of mass 198	49.31
70	Less than 2.00% of mass 69	0.19 (0.39)
127	40.00 - 60.00% of mass 198	52.87
197	Less than 1.00% of mass 198	0.45
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	21.08
365	1.00 - 100.00% of mass 198	2.30
441	Present, but less than mass 443	8.98
442	40.00 - 100.00% of mass 198	60.63
443	17.00 - 23.00% of mass 442	11.51 (18.99)

Data File: As9212.D

Date: 21-DEC-2009 13:16

Client ID: DFTPP Instrument: msa.i

Sample Info: DFTPP Operator: smith

Data File: \\consvr05\files\chem\BNA\msa.i\A099200.b\As9212.D
Spectrum: Avg. Scans 1446-1448 (9.98), Background Scan 1442
Location of Maximum: 198.00
Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	54	119.00	337	199.00	24240	285.00	1008
31.00	4336	120.00	632	200.00	1788	286.00	140
35.00	25	121.00	211	201.00	1604	289.00	171
37.00	677	122.00	2817	202.00	151	290.00	249
38.00	2007	123.00	4679	203.00	2110	291.00	141
39.00	13131	124.00	2196	204.00	11343	292.00	268
40.00	539	125.00	2280	205.00	18848	293.00	1344
41.00	261	126.00	597	206.00	79712	294.00	410
44.00	1	127.00	187456	207.00	10342	295.00	313
45.00	306	128.00	13997	208.00	2417	296.00	18672
48.00	54	129.00	70296	209.00	639	297.00	2632
49.00	981	130.00	5794	210.00	749	298.00	144
50.00	39488	131.00	1176	211.00	3039	301.00	168
51.00	159744	132.00	605	212.00	228	302.00	319
52.00	7899	133.00	266	213.00	193	303.00	2130
53.00	428	134.00	1786	214.00	51	304.00	626
55.00	585	135.00	5116	215.00	837	308.00	396
56.00	4518	136.00	2198	216.00	1614	309.00	164
57.00	10739	137.00	2773	217.00	19768	310.00	283
58.00	432	138.00	468	218.00	2667	313.00	175
59.00	128	140.00	142	219.00	280	314.00	837
60.00	51	141.00	7702	221.00	18032	315.00	1914
61.00	1792	142.00	2658	223.00	4819	316.00	1207
62.00	1956	143.00	1867	224.00	42480	317.00	186
63.00	5795	144.00	579	225.00	10546	321.00	668
64.00	707	145.00	532	226.00	1135	322.00	388
65.00	2922	146.00	1396	227.00	16672	323.00	6137
66.00	251	147.00	3997	228.00	2634	324.00	1265
67.00	309	148.00	8842	229.00	3626	325.00	129
68.00	2473	149.00	1897	230.00	568	326.00	61
69.00	174848	150.00	577	231.00	1601	327.00	1145
70.00	676	151.00	1233	232.00	237	328.00	532
71.00	80	152.00	548	233.00	215	332.00	456
73.00	852	153.00	2581	234.00	1068	333.00	646
74.00	14009	154.00	1833	235.00	1083	334.00	3892
75.00	24072	155.00	4254	236.00	885	335.00	968
76.00	7751	156.00	6939	237.00	1165	336.00	110
77.00	180928	157.00	1491	238.00	121	339.00	54
78.00	12441	158.00	1464	239.00	701	341.00	736
79.00	9968	159.00	1018	240.00	512	342.00	231

80.00	7772	160.00	2258	241.00	951	346.00	1362
81.00	11276	161.00	3687	242.00	2531	347.00	185
82.00	2644	162.00	1114	243.00	2589	351.00	51
83.00	1659	163.00	316	244.00	35288	352.00	1999
84.00	746	164.00	361	245.00	4440	353.00	1400
85.00	1746	165.00	2670	246.00	5795	354.00	1619
86.00	2711	166.00	1730	247.00	1227	355.00	424
87.00	1154	167.00	12066	248.00	225	359.00	75
88.00	414	168.00	7088	249.00	1140	364.00	160
89.00	66	169.00	1452	250.00	278	365.00	8140
90.00	118	170.00	410	251.00	245	366.00	1182
91.00	2527	171.00	758	252.00	329	370.00	127
92.00	2601	172.00	1323	253.00	812	371.00	491
93.00	16960	173.00	1740	254.00	1169	372.00	3387
94.00	1198	174.00	3030	255.00	170752	373.00	835
95.00	352	175.00	6176	256.00	23912	383.00	858
96.00	834	176.00	1789	257.00	1832	384.00	204
97.00	246	177.00	2524	258.00	8484	390.00	421
98.00	12176	178.00	876	259.00	1449	391.00	312
99.00	10251	179.00	11951	260.00	250	392.00	233
100.00	858	180.00	7950	261.00	325	401.00	131
101.00	6287	181.00	3874	263.00	63	402.00	1426
102.00	336	182.00	575	264.00	350	403.00	1907
103.00	2033	183.00	478	265.00	3387	404.00	588
104.00	3520	184.00	998	266.00	411	421.00	1666
105.00	3336	185.00	5839	268.00	56	422.00	1367
106.00	1332	186.00	43784	270.00	155	423.00	10132
107.00	48664	187.00	12410	271.00	402	424.00	2151
108.00	7667	188.00	1380	272.00	543	425.00	170
109.00	1331	189.00	2381	273.00	5203	439.00	111
110.00	98072	190.00	406	274.00	13528	440.00	57
111.00	14159	191.00	1115	275.00	74728	441.00	31824
112.00	1712	192.00	3441	276.00	10184	442.00	214976
113.00	365	193.00	3837	277.00	5600	443.00	40824
114.00	105	194.00	916	278.00	902	444.00	3646
115.00	12	195.00	653	279.00	244	445.00	200
116.00	2438	196.00	10835	282.00	51		
117.00	33816	197.00	1584	283.00	607		
118.00	2498	198.00	354560	284.00	358		

TestAmerica Inc

Data file : \\consvr05\files\chem\BNA\msa.i\A099261.b\As9261.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 23-DEC-2009 07:50
Operator : smith Inst ID: msa.i
Smp Info : DFTPP
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msa.i\A099261.b\msadftppSW.m
Meth Date : 25-Jun-2009 10:09 stephan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CONMSA

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

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

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp							CAS #: 5074-71-5	
9.939	9.782	0.157	198	446464			0.00- 100.00	100.00
9.939	7.746	2.193	51	171968			30.00- 60.00	38.52
9.939	7.746	2.193	68	2686			0.00- 2.00	1.42
9.939	7.746	2.193	69	189696			0.00- 100.00	42.49
9.939	7.746	2.193	70	332			0.00- 2.00	0.18
9.939	7.746	2.193	127	218496			40.00- 60.00	48.94
9.939	7.746	2.193	197	438			0.00- 1.00	0.10
9.939	7.746	2.193	199	29808			5.00- 9.00	6.68
9.939	7.746	2.193	275	98224			10.00- 30.00	22.00
9.939	7.746	2.193	365	11214			1.00- 100.00	2.51
9.939	7.746	2.193	441	43720			0.01- 99.99	74.42
9.939	7.746	2.193	442	306240			40.00- 100.00	68.59
9.939	7.746	2.193	443	58744			17.00- 23.00	19.18

Data File: As9261.D

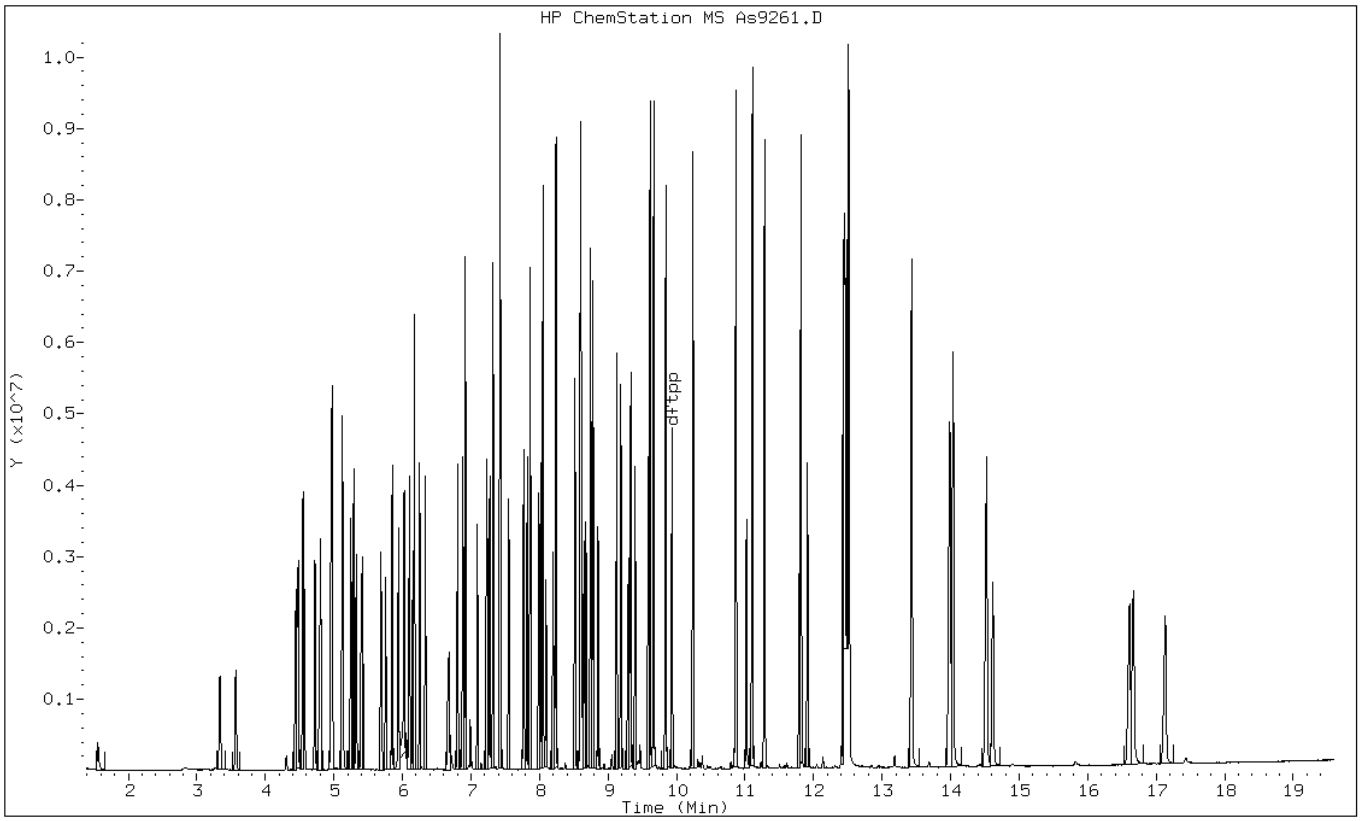
Date: 23-DEC-2009 07:50

Client ID: DFTPP

Instrument: msa.i

Sample Info: DFTPP

Operator: smith



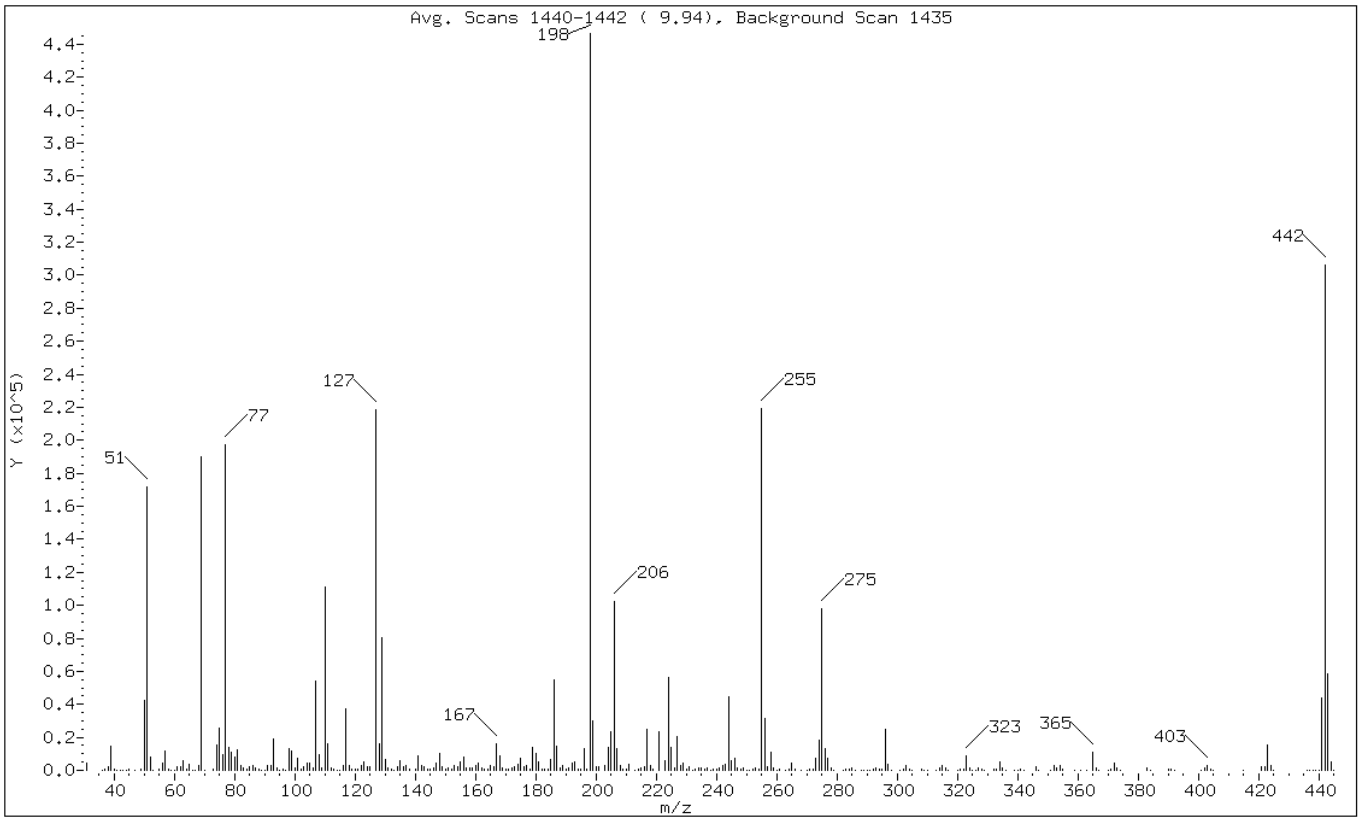
Data File: As9261.D

Date: 23-DEC-2009 07:50

Client ID: DFTPP Instrument: msa.i

Sample Info: DFTPP Operator: smith

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.52
68	Less than 2.00% of mass 69	0.60 (1.42)
69	Less than 100.00% of mass 198	42.49
70	Less than 2.00% of mass 69	0.07 (0.18)
127	40.00 - 60.00% of mass 198	48.94
197	Less than 1.00% of mass 198	0.10
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 30.00% of mass 198	22.00
365	1.00 - 100.00% of mass 198	2.51
441	Present, but less than mass 443	9.79
442	40.00 - 100.00% of mass 198	68.59
443	17.00 - 23.00% of mass 442	13.16 (19.18)

Data File: As9261.D

Date: 23-DEC-2009 07:50

Client ID: DFTPP Instrument: msa.i

Sample Info: DFTPP Operator: smith

Data File: \\consvr05\files\chem\BNA\msa.i\A099261.b\As9261.D
Spectrum: Avg. Scans 1440-1442 (9.94), Background Scan 1435
Location of Maximum: 198.00
Number of points: 323

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	4707	121.00	368	205.00	23456	295.00	685
36.00	140	122.00	3138	206.00	102312	296.00	24512
37.00	861	123.00	5321	207.00	13210	297.00	3580
38.00	2046	124.00	2249	208.00	2994	298.00	231
39.00	14423	125.00	2344	209.00	1037	301.00	304
40.00	644	127.00	218496	210.00	654	302.00	544
41.00	106	128.00	16151	211.00	3806	303.00	2937
42.00	5	129.00	80152	213.00	237	304.00	893
43.00	47	130.00	6535	214.00	509	305.00	50
44.00	33	131.00	1304	215.00	1263	308.00	382
45.00	509	132.00	689	216.00	2215	309.00	306
47.00	178	133.00	306	217.00	24528	310.00	338
49.00	730	134.00	2005	218.00	3225	313.00	285
50.00	42632	135.00	5807	219.00	407	314.00	1313
51.00	171968	136.00	2227	221.00	23504	315.00	2566
52.00	8374	137.00	2959	223.00	5996	316.00	1623
53.00	201	138.00	603	224.00	56120	317.00	274
55.00	455	140.00	436	225.00	13749	320.00	91
56.00	4737	141.00	8593	226.00	1664	321.00	909
57.00	12025	142.00	3263	227.00	20808	322.00	529
58.00	645	143.00	2009	228.00	2887	323.00	8792
59.00	146	144.00	685	229.00	4724	324.00	1746
60.00	143	145.00	657	230.00	580	325.00	158
61.00	1953	146.00	1527	231.00	2086	326.00	136
62.00	2182	147.00	4345	232.00	361	327.00	1560
63.00	6175	148.00	10279	233.00	434	328.00	856
64.00	736	149.00	2268	234.00	1294	329.00	71
65.00	3419	150.00	666	235.00	1496	332.00	652
66.00	323	151.00	1376	236.00	1026	333.00	905
67.00	130	152.00	842	237.00	1665	334.00	5331
68.00	2686	153.00	2788	238.00	256	335.00	1432
69.00	189696	154.00	1983	239.00	781	336.00	69
70.00	332	155.00	5164	240.00	640	339.00	52
73.00	914	156.00	7953	241.00	1188	340.00	149
74.00	15265	157.00	1602	242.00	3026	341.00	1036
75.00	25328	158.00	1744	243.00	3355	342.00	270
76.00	9332	159.00	1346	244.00	44824	346.00	2067
77.00	197248	160.00	2863	245.00	5933	347.00	360
78.00	13640	161.00	4601	246.00	7121	351.00	162
79.00	10883	162.00	1336	247.00	1368	352.00	2621

80.00	8402	163.00	436	248.00	387	353.00	1704
81.00	12280	164.00	509	249.00	1429	354.00	2723
82.00	3241	165.00	3164	250.00	258	355.00	521
83.00	1695	166.00	2088	251.00	345	359.00	194
84.00	1008	167.00	15929	252.00	464	361.00	52
85.00	1923	168.00	8933	253.00	1146	363.00	51
86.00	3168	169.00	1767	254.00	368	365.00	11214
87.00	1145	170.00	720	255.00	219072	366.00	1654
88.00	520	171.00	802	256.00	31384	367.00	76
89.00	190	172.00	1601	257.00	2500	370.00	319
90.00	93	173.00	2017	258.00	11086	371.00	742
91.00	2652	174.00	3578	259.00	1706	372.00	4521
92.00	2947	175.00	7598	260.00	323	373.00	1112
93.00	18704	176.00	2172	261.00	394	374.00	132
94.00	1307	177.00	3250	263.00	60	383.00	1316
95.00	357	178.00	1024	264.00	385	384.00	363
96.00	1069	179.00	13737	265.00	4246	390.00	651
97.00	323	180.00	9921	266.00	757	391.00	493
98.00	13215	181.00	4777	268.00	51	392.00	280
99.00	11493	182.00	807	270.00	285	401.00	250
100.00	1114	183.00	478	271.00	455	402.00	1756
101.00	7280	184.00	973	272.00	798	403.00	2879
102.00	465	185.00	6761	273.00	6979	404.00	977
103.00	2343	186.00	54872	274.00	18176	405.00	62
104.00	4102	187.00	14695	275.00	98224	415.00	51
105.00	4082	188.00	1419	276.00	13122	421.00	2171
106.00	1478	189.00	2973	277.00	7018	422.00	2076
107.00	54296	190.00	484	278.00	1203	423.00	15463
108.00	9171	191.00	1445	279.00	313	424.00	3052
109.00	1685	192.00	4415	282.00	156	425.00	272
110.00	110984	193.00	4939	283.00	827	436.00	103
111.00	15749	194.00	1054	284.00	528	437.00	64
112.00	1797	195.00	763	285.00	1473	438.00	221
113.00	548	196.00	13210	286.00	187	439.00	195
114.00	146	197.00	438	288.00	125	440.00	237
115.00	92	198.00	446464	289.00	334	441.00	43720
116.00	2882	199.00	29808	290.00	254	442.00	306240
117.00	37112	200.00	2369	291.00	214	443.00	58744
118.00	2781	201.00	2170	292.00	534	444.00	5299
119.00	537	203.00	2601	293.00	1608	445.00	218
120.00	681	204.00	13665	294.00	517		

TestAmerica Inc

Data file : \\consvr05\files\chem\BNA\msc.i\C0915328.b\Cs15331.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-DEC-2009 14:30
Operator : S.Jonas Inst ID: msc.i
Smp Info : DFTPP
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915328.b\mscdftppSW.m
Meth Date : 03-Jun-2009 14:18 stephan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CONMSA

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

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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
10.238	10.238	0.000	198	432256			0.00- 100.00	100.00
10.238	7.902	2.336	51	177088			30.00- 60.00	40.97
10.238	7.902	2.336	68	2168			0.00- 2.00	1.29
10.238	7.902	2.336	69	167936			0.00- 100.00	38.85
10.238	7.902	2.336	70	551			0.00- 2.00	0.33
10.238	7.902	2.336	127	215424			40.00- 60.00	49.84
10.238	7.902	2.336	197	558			0.00- 1.00	0.13
10.238	7.902	2.336	199	29416			5.00- 9.00	6.81
10.238	7.902	2.336	275	106976			10.00- 30.00	24.75
10.238	7.902	2.336	365	12761			1.00- 100.00	2.95
10.238	7.902	2.336	441	52128			0.01- 99.99	75.53
10.238	7.902	2.336	442	360448			40.00- 100.00	83.39
10.238	7.902	2.336	443	69016			17.00- 23.00	19.15

Data File: Cs15331.D

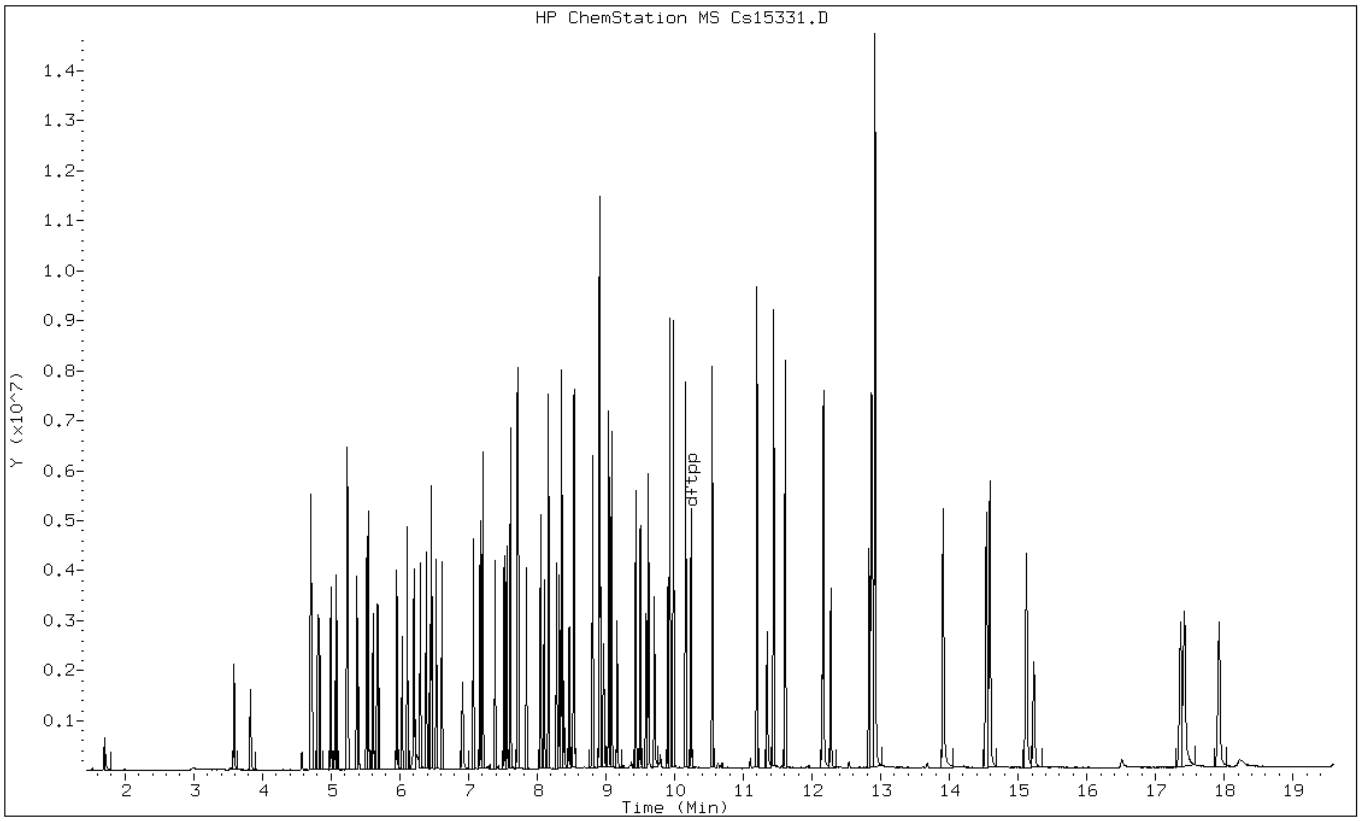
Date: 18-DEC-2009 14:30

Client ID: DFTPP

Instrument: msc.i

Sample Info: DFTPP

Operator: S.Jonas



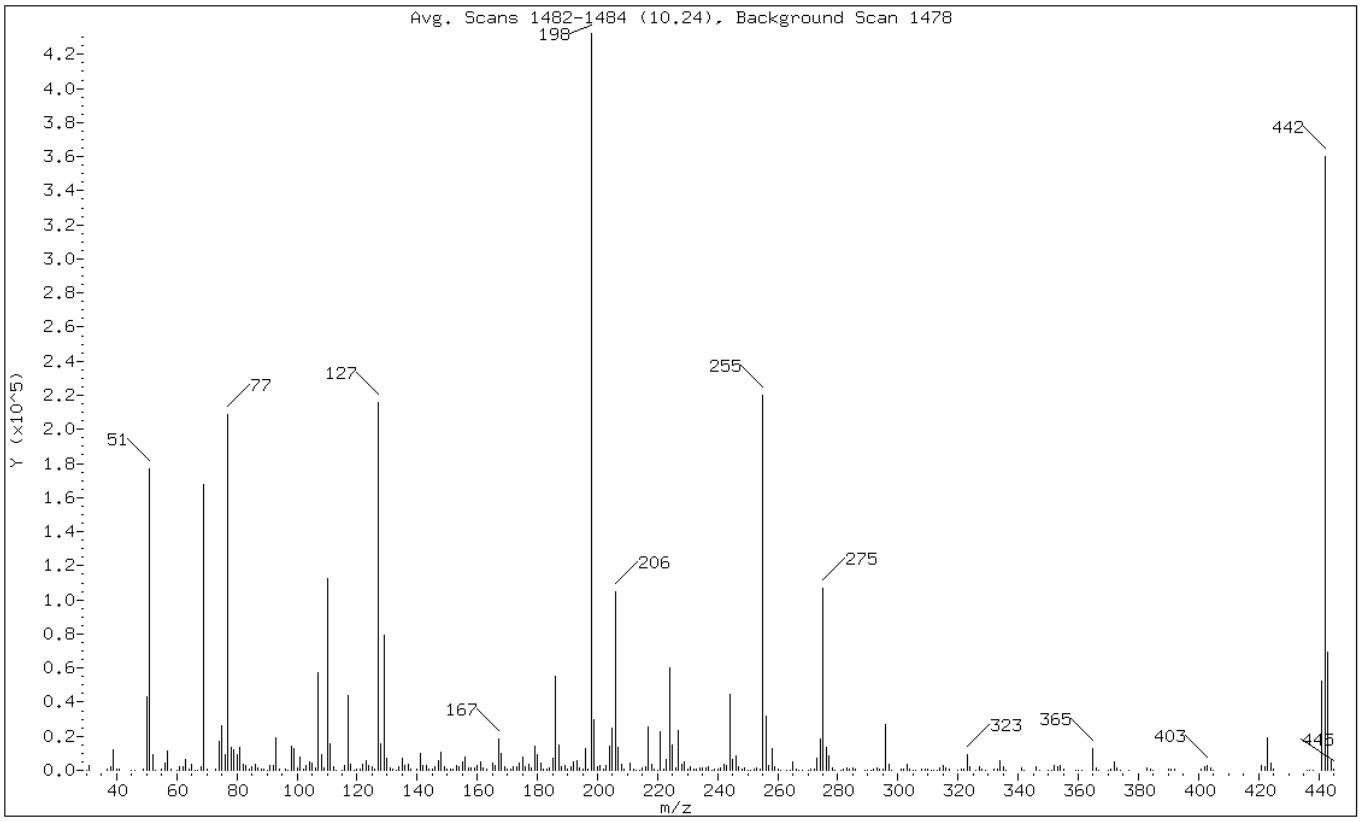
Data File: Cs15331.D

Date: 18-DEC-2009 14:30

Client ID: DFTPP Instrument: msc.i

Sample Info: DFTPP Operator: S.Jonas

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.97
68	Less than 2.00% of mass 69	0.50 (1.29)
69	Less than 100.00% of mass 198	38.85
70	Less than 2.00% of mass 69	0.13 (0.33)
127	40.00 - 60.00% of mass 198	49.84
197	Less than 1.00% of mass 198	0.13
199	5.00 - 9.00% of mass 198	6.81
275	10.00 - 30.00% of mass 198	24.75
365	1.00 - 100.00% of mass 198	2.95
441	Present, but less than mass 443	12.06
442	40.00 - 100.00% of mass 198	83.39
443	17.00 - 23.00% of mass 442	15.97 (19.15)

Data File: Cs15331.D

Date: 18-DEC-2009 14:30

Client ID: DFTPP Instrument: msc.i

Sample Info: DFTPP Operator: S.Jonas

Data File: \\consvr05\files\chem\BNA\msc.i\C0915328.b\Cs15331.D
Spectrum: Avg. Scans 1482-1484 (10.24), Background Scan 1478
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	212	127.00	215424	211.00	4330	297.00	3594
31.00	2768	128.00	15669	212.00	419	298.00	202
37.00	563	129.00	79440	213.00	183	301.00	447
38.00	2267	130.00	6854	214.00	95	302.00	452
39.00	11936	131.00	1417	215.00	1389	303.00	3492
40.00	519	132.00	774	216.00	1991	304.00	711
41.00	439	133.00	298	217.00	25784	305.00	65
45.00	8	134.00	2197	218.00	3260	306.00	58
46.00	164	135.00	6783	219.00	396	308.00	457
49.00	795	136.00	2629	220.00	193	309.00	355
50.00	43104	137.00	3550	221.00	22616	310.00	387
51.00	177088	138.00	991	222.00	801	311.00	52
52.00	9171	140.00	865	223.00	6160	312.00	52
53.00	134	141.00	9766	224.00	60288	313.00	163
55.00	817	142.00	3097	225.00	15078	314.00	1378
56.00	4511	143.00	2515	226.00	1685	315.00	3060
57.00	11478	144.00	784	227.00	23328	316.00	1623
58.00	458	145.00	612	228.00	3187	317.00	401
60.00	53	146.00	1963	229.00	4615	320.00	57
61.00	2440	147.00	5462	230.00	600	321.00	797
62.00	2401	148.00	10495	231.00	2336	322.00	624
63.00	6704	149.00	2045	232.00	360	323.00	8992
64.00	779	150.00	1033	233.00	465	324.00	1850
65.00	3478	151.00	1037	234.00	1195	326.00	64
66.00	247	152.00	804	235.00	1608	327.00	1897
67.00	129	153.00	2569	236.00	1101	328.00	922
68.00	2168	154.00	2422	237.00	1971	329.00	139
69.00	167936	155.00	5165	238.00	304	332.00	674
70.00	551	156.00	7580	239.00	911	333.00	709
73.00	666	157.00	1674	240.00	743	334.00	5777
74.00	16736	158.00	1759	241.00	1261	335.00	1786
75.00	26384	159.00	1765	242.00	3295	336.00	304
76.00	9519	160.00	3117	243.00	2942	341.00	1097
77.00	208640	161.00	4636	244.00	44824	342.00	270
78.00	13552	162.00	1286	245.00	6251	346.00	1975
79.00	11888	163.00	381	246.00	8245	347.00	238
80.00	9275	165.00	3913	247.00	1843	350.00	52
81.00	13226	166.00	2817	248.00	487	351.00	93
82.00	3326	167.00	18712	249.00	1700	352.00	2593
83.00	3125	168.00	9846	250.00	325	353.00	2135

84.00	475	169.00	2024	251.00	351	354.00	2916
85.00	2041	170.00	831	252.00	395	355.00	776
86.00	3533	171.00	984	253.00	1097	359.00	130
87.00	1685	172.00	2087	254.00	533	360.00	71
88.00	1034	173.00	2071	255.00	220224	361.00	50
89.00	424	174.00	4229	256.00	31872	365.00	12761
90.00	138	175.00	7434	257.00	2671	366.00	1632
91.00	2563	176.00	2013	258.00	12491	367.00	57
92.00	3105	177.00	3872	259.00	1968	370.00	201
93.00	19352	178.00	1166	260.00	412	371.00	718
94.00	1050	179.00	13806	261.00	321	372.00	5140
96.00	851	180.00	9152	263.00	264	373.00	1129
97.00	352	181.00	4404	264.00	221	374.00	163
98.00	14357	182.00	754	265.00	4843	377.00	62
99.00	12746	183.00	711	266.00	821	383.00	1288
100.00	1305	184.00	1383	267.00	122	384.00	391
101.00	7633	185.00	6917	268.00	227	385.00	80
102.00	473	186.00	55168	270.00	300	390.00	716
103.00	2793	187.00	14627	271.00	666	391.00	421
104.00	4760	188.00	1874	272.00	583	392.00	384
105.00	3948	189.00	3085	273.00	7065	401.00	356
106.00	1606	190.00	573	274.00	18392	402.00	2218
107.00	57104	191.00	2003	275.00	106976	403.00	3011
108.00	9325	192.00	4756	276.00	13359	404.00	1110
109.00	1622	193.00	5777	277.00	8192	405.00	115
110.00	112360	194.00	1426	278.00	1513	421.00	3059
111.00	15870	195.00	751	279.00	102	422.00	2113
112.00	2245	196.00	12590	281.00	33	423.00	19176
113.00	226	197.00	558	282.00	410	424.00	4054
115.00	331	198.00	432256	283.00	1063	425.00	499
116.00	3128	199.00	29416	284.00	740	436.00	141
117.00	43912	200.00	1874	285.00	1628	437.00	67
118.00	3706	201.00	2702	286.00	454	438.00	55
119.00	105	202.00	409	289.00	272	441.00	52128
120.00	463	203.00	2689	290.00	173	442.00	360448
121.00	405	204.00	14178	291.00	204	443.00	69016
122.00	3639	205.00	24688	292.00	539	444.00	6336
123.00	5588	206.00	104448	293.00	1612	445.00	425
124.00	2787	207.00	13757	294.00	555		
125.00	2361	208.00	3217	295.00	616		
126.00	704	209.00	834	296.00	27024		

TestAmerica Inc

Data file : \\consvr05\files\chem\BNA\msc.i\C0915356.b\Cs15357.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-DEC-2009 08:12
Operator : S.Jonas Inst ID: msc.i
Smp Info : DFTPP
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915356.b\mscdftppSW.m
Meth Date : 03-Jun-2009 14:18 stephan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CONMSA

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

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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
10.226	10.238	-0.012	198	519424			0.00- 100.00	100.00
10.226	7.902	2.324	51	198848			30.00- 60.00	38.28
10.226	7.902	2.324	68	2886			0.00- 2.00	1.49
10.226	7.902	2.324	69	193984			0.00- 100.00	37.35
10.226	7.902	2.324	70	642			0.00- 2.00	0.33
10.226	7.902	2.324	127	245312			40.00- 60.00	47.23
10.226	7.902	2.324	197	1691			0.00- 1.00	0.33
10.226	7.902	2.324	199	35000			5.00- 9.00	6.74
10.226	7.902	2.324	275	131520			10.00- 30.00	25.32
10.226	7.902	2.324	365	15748			1.00- 100.00	3.03
10.226	7.902	2.324	441	65696			0.01- 99.99	73.60
10.226	7.902	2.324	442	449536			40.00- 100.00	86.55
10.226	7.902	2.324	443	89264			17.00- 23.00	19.86

Data File: Cs15357.D

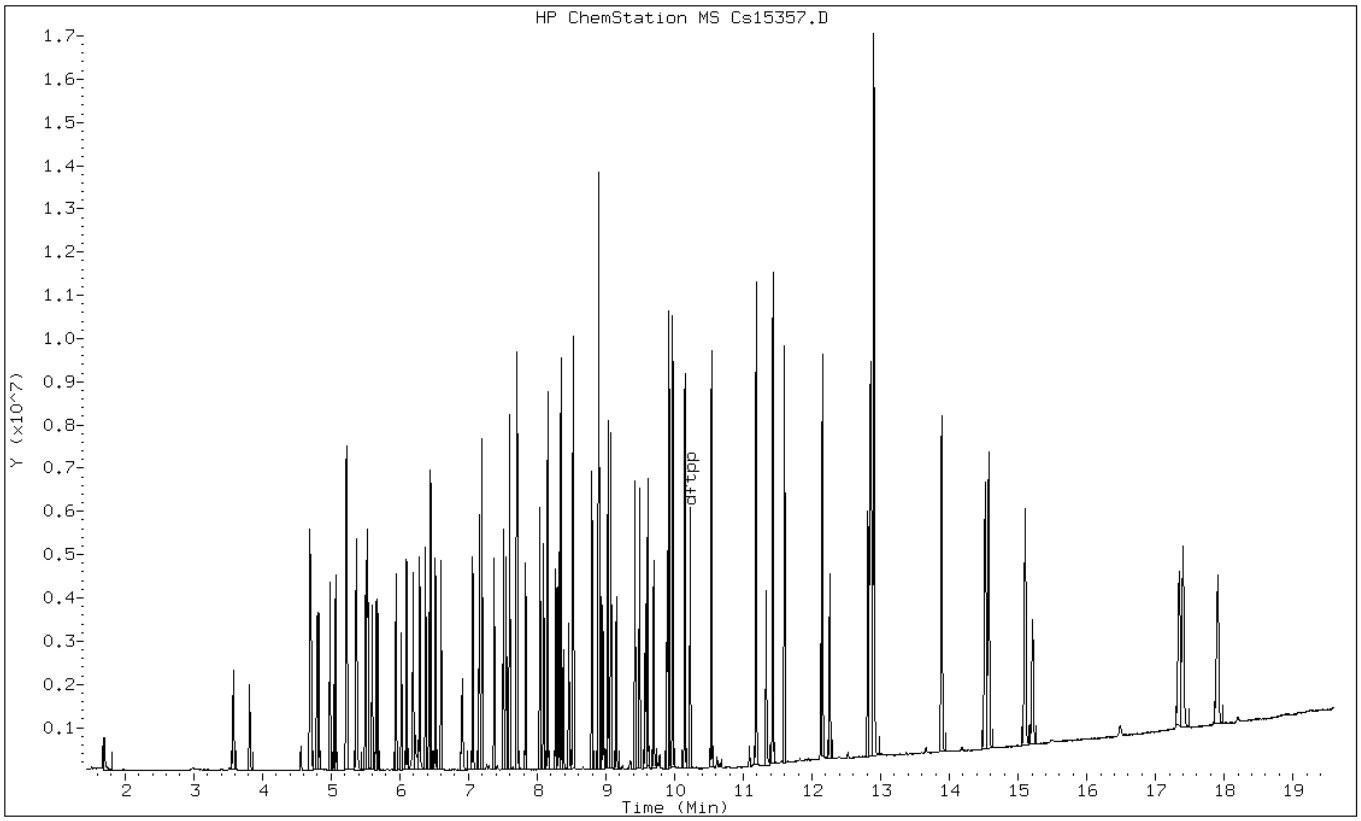
Date: 21-DEC-2009 08:12

Client ID: DFTPP

Instrument: msc.i

Sample Info: DFTPP

Operator: S.Jonas



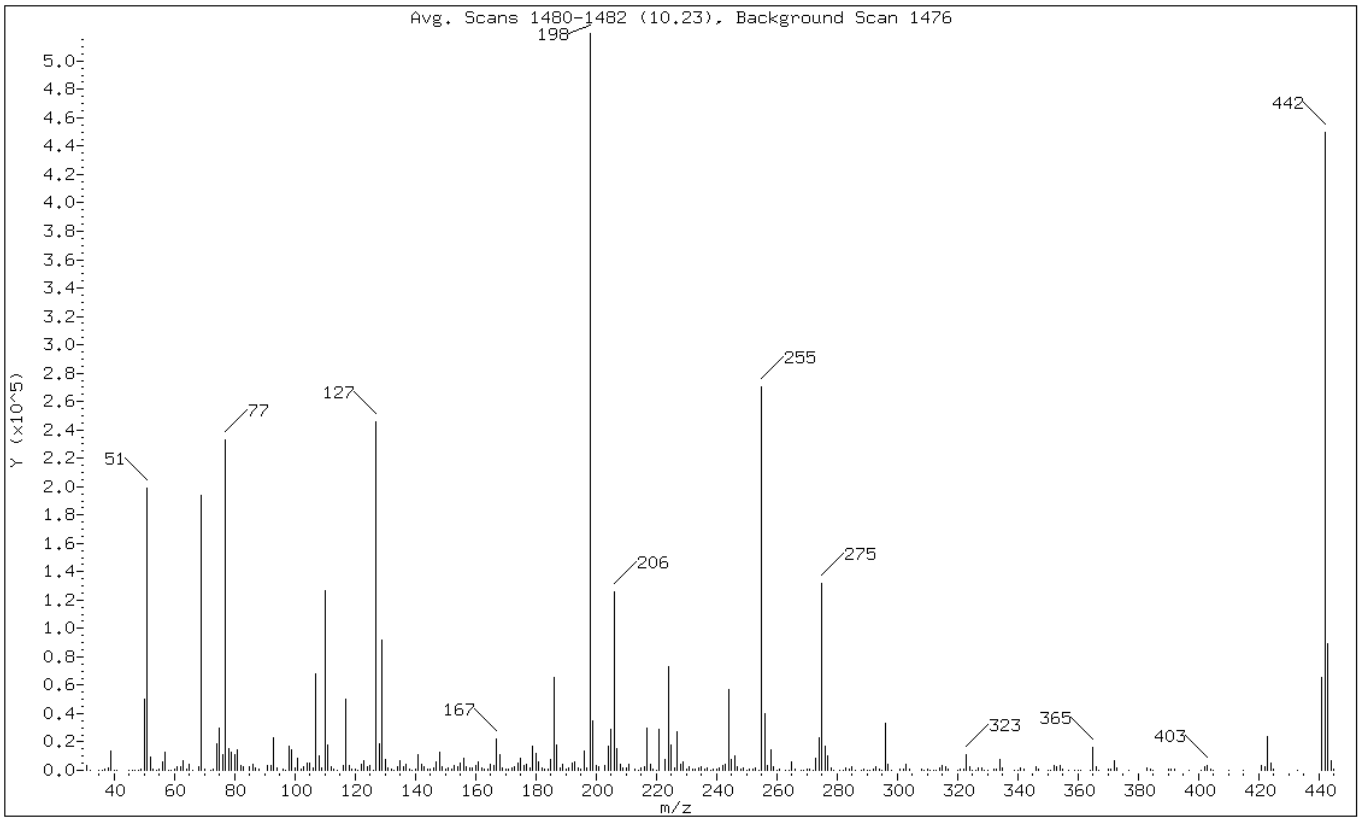
Data File: Cs15357.D

Date: 21-DEC-2009 08:12

Client ID: DFTPP Instrument: msc.i

Sample Info: DFTPP Operator: S.Jonas

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.28
68	Less than 2.00% of mass 69	0.56 (1.49)
69	Less than 100.00% of mass 198	37.35
70	Less than 2.00% of mass 69	0.12 (0.33)
127	40.00 - 60.00% of mass 198	47.23
197	Less than 1.00% of mass 198	0.33
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 30.00% of mass 198	25.32
365	1.00 - 100.00% of mass 198	3.03
441	Present, but less than mass 443	12.65
442	40.00 - 100.00% of mass 198	86.55
443	17.00 - 23.00% of mass 442	17.19 (19.86)

Data File: Cs15357.D

Date: 21-DEC-2009 08:12

Client ID: DFTPP Instrument: msc.i

Sample Info: DFTPP Operator: S.Jonas

Data File: \\consvr05\files\chem\BNA\msc.i\C0915356.b\Cs15357.D
Spectrum: Avg. Scans 1480-1482 (10.23), Background Scan 1476
Location of Maximum: 198.00
Number of points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	3151	126.00	387	210.00	2019	301.00	509
32.00	212	127.00	245312	211.00	4340	302.00	650
35.00	66	128.00	18496	213.00	445	303.00	4041
36.00	108	129.00	92176	214.00	69	304.00	1085
37.00	941	130.00	7970	215.00	1362	308.00	581
38.00	1829	131.00	1378	216.00	2533	309.00	364
39.00	13273	132.00	948	217.00	30088	310.00	596
40.00	165	133.00	139	218.00	3983	311.00	66
41.00	353	134.00	2761	219.00	468	312.00	76
45.00	179	135.00	6873	220.00	228	313.00	397
46.00	51	136.00	2816	221.00	28632	314.00	1534
47.00	77	137.00	4079	223.00	7562	315.00	3488
48.00	56	138.00	1015	224.00	73016	316.00	2324
49.00	1251	139.00	352	225.00	17752	317.00	439
50.00	49856	140.00	809	226.00	2027	320.00	234
51.00	198848	141.00	10827	227.00	27272	321.00	823
52.00	9690	142.00	4000	228.00	4026	322.00	823
53.00	497	143.00	2907	229.00	6066	323.00	11420
54.00	219	144.00	932	230.00	810	324.00	2204
55.00	1080	145.00	546	231.00	2444	325.00	59
56.00	5605	146.00	1732	232.00	568	326.00	171
57.00	12964	147.00	5540	233.00	820	327.00	1714
58.00	299	148.00	12726	234.00	1776	328.00	1421
59.00	247	149.00	2825	235.00	2221	329.00	152
60.00	468	150.00	643	236.00	1126	330.00	68
61.00	2741	151.00	1621	237.00	2062	332.00	1002
62.00	2272	152.00	669	238.00	266	333.00	1067
63.00	6504	153.00	3072	239.00	1054	334.00	7630
64.00	879	154.00	2901	240.00	768	335.00	2095
65.00	4194	155.00	5329	241.00	1793	339.00	160
66.00	224	156.00	8741	242.00	3513	340.00	95
68.00	2886	157.00	2178	243.00	3937	341.00	1443
69.00	193984	158.00	1789	244.00	56568	342.00	460
70.00	642	159.00	1431	245.00	7357	346.00	2529
72.00	69	160.00	3800	246.00	9803	347.00	500
73.00	756	161.00	5554	247.00	2136	350.00	104
74.00	18600	162.00	1769	248.00	542	351.00	280
75.00	30152	163.00	681	249.00	1904	352.00	3344
76.00	11293	164.00	457	250.00	419	353.00	2584
77.00	233088	165.00	4060	251.00	552	354.00	3557

78.00	15524	166.00	3326	252.00	646	355.00	510
79.00	12620	167.00	22072	253.00	1284	357.00	67
80.00	10759	168.00	11023	254.00	418	359.00	306
81.00	14841	169.00	2039	255.00	269952	360.00	62
82.00	3595	170.00	898	256.00	39544	361.00	104
83.00	2743	171.00	1091	257.00	2977	364.00	61
85.00	2309	172.00	2125	258.00	14649	365.00	15748
86.00	4167	173.00	2709	259.00	2749	366.00	2341
87.00	1715	174.00	4974	260.00	409	367.00	163
88.00	824	175.00	8508	261.00	566	370.00	574
91.00	3265	176.00	2982	263.00	221	371.00	1026
92.00	3466	177.00	4258	264.00	223	372.00	6659
93.00	22600	178.00	1296	265.00	5779	373.00	1713
94.00	1403	179.00	16984	266.00	540	377.00	55
96.00	996	180.00	11760	268.00	236	383.00	1937
97.00	296	181.00	5622	269.00	158	384.00	654
98.00	17192	182.00	1376	270.00	551	385.00	197
99.00	14741	183.00	552	271.00	684	390.00	845
100.00	1524	184.00	1154	272.00	369	391.00	511
101.00	8815	185.00	7855	273.00	8815	392.00	581
102.00	652	186.00	65696	274.00	22928	397.00	68
103.00	2598	187.00	18160	275.00	131520	401.00	415
104.00	5371	188.00	1986	276.00	17408	402.00	2623
105.00	5159	189.00	3982	277.00	10117	403.00	3451
106.00	1704	190.00	783	278.00	1664	404.00	1147
107.00	68056	191.00	2054	279.00	418	405.00	182
108.00	9916	192.00	4966	281.00	194	410.00	89
109.00	1750	193.00	6202	282.00	345	415.00	227
110.00	127056	194.00	1499	283.00	1315	421.00	3361
111.00	18256	195.00	536	284.00	832	422.00	2933
112.00	2398	196.00	13682	285.00	2161	423.00	24096
113.00	428	197.00	1691	286.00	277	424.00	5078
114.00	275	198.00	519424	288.00	105	425.00	483
116.00	3368	199.00	35000	289.00	593	433.00	63
117.00	50432	200.00	3049	290.00	411	441.00	65696
118.00	3584	201.00	2367	291.00	262	442.00	449536
119.00	731	203.00	3104	292.00	470	443.00	89264
120.00	578	204.00	17384	293.00	2385	444.00	7039
121.00	275	205.00	28600	294.00	624	445.00	465
122.00	4556	206.00	125944	295.00	393		
123.00	6569	207.00	15236	296.00	33192		
124.00	2767	208.00	4254	297.00	4170		
125.00	3003	209.00	1368	298.00	352		

TestAmerica Inc

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\Cs15383.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-DEC-2009 07:51
Operator : S.Jonas Inst ID: msc.i
Smp Info : DFTPP
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915383.b\mscdftppSW.m
Meth Date : 03-Jun-2009 14:18 stephan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CONMSA

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

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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp							CAS #: 5074-71-5	
10.191	10.238	-0.047	198	456128			0.00- 100.00	100.00
10.191	7.902	2.289	51	181824			30.00- 60.00	39.86
10.191	7.902	2.289	68	2478			0.00- 2.00	1.41
10.191	7.902	2.289	69	175424			0.00- 100.00	38.46
10.191	7.902	2.289	70	745			0.00- 2.00	0.42
10.191	7.902	2.289	127	220416			40.00- 60.00	48.32
10.191	7.902	2.289	197	2636			0.00- 1.00	0.58
10.191	7.902	2.289	199	29176			5.00- 9.00	6.40
10.191	7.902	2.289	275	111552			10.00- 30.00	24.46
10.191	7.902	2.289	365	13507			1.00- 100.00	2.96
10.191	7.902	2.289	441	50936			0.01- 99.99	72.38
10.191	7.902	2.289	442	363008			40.00- 100.00	79.58
10.191	7.902	2.289	443	70376			17.00- 23.00	19.39

Data File: Cs15383.D

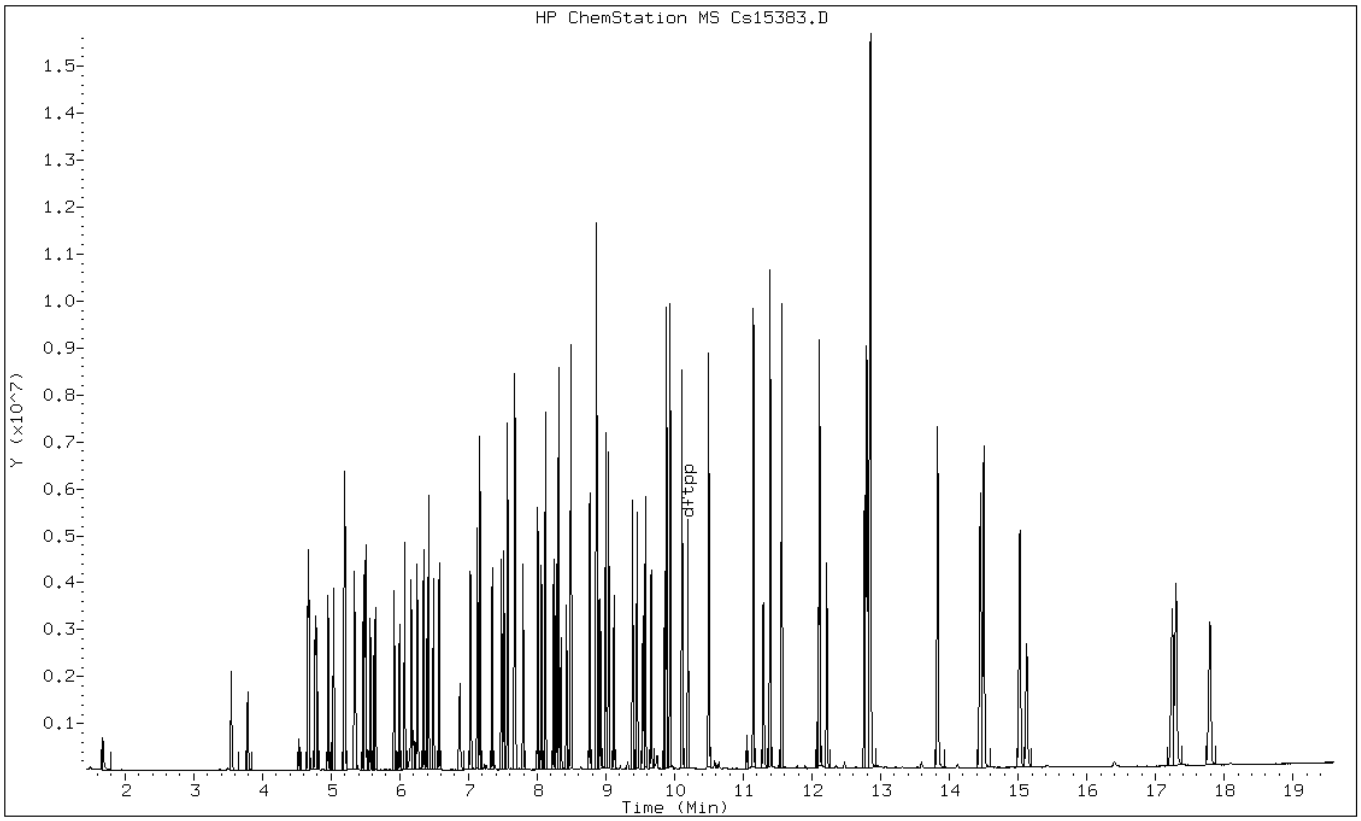
Date: 22-DEC-2009 07:51

Client ID: DFTPP

Instrument: msc.i

Sample Info: DFTPP

Operator: S.Jonas



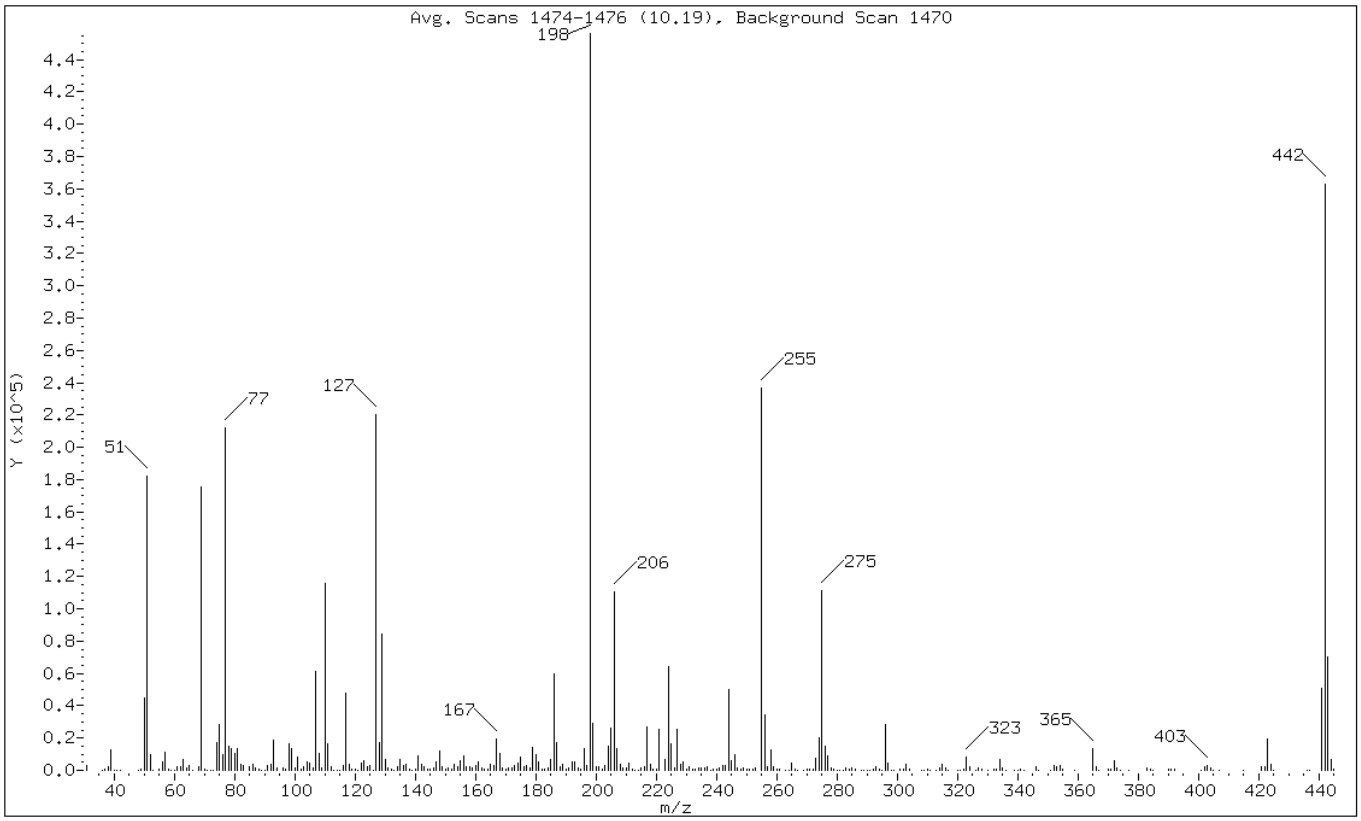
Data File: Cs15383.D

Date: 22-DEC-2009 07:51

Client ID: DFTPP Instrument: msc.i

Sample Info: DFTPP Operator: S.Jonas

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.86
68	Less than 2.00% of mass 69	0.54 (1.41)
69	Less than 100.00% of mass 198	38.46
70	Less than 2.00% of mass 69	0.16 (0.42)
127	40.00 - 60.00% of mass 198	48.32
197	Less than 1.00% of mass 198	0.58
199	5.00 - 9.00% of mass 198	6.40
275	10.00 - 30.00% of mass 198	24.46
365	1.00 - 100.00% of mass 198	2.96
441	Present, but less than mass 443	11.17
442	40.00 - 100.00% of mass 198	79.58
443	17.00 - 23.00% of mass 442	15.43 (19.39)

Data File: Cs15383.D

Date: 22-DEC-2009 07:51

Client ID: DFTPP Instrument: msc.i

Sample Info: DFTPP Operator: S.Jonas

Data File: \\consvr05\files\chem\BNA\msc.i\C0915383.b\Cs15383.D
Spectrum: Avg. Scans 1474-1476 (10.19), Background Scan 1470
Location of Maximum: 198.00
Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	3177	126.00	201	208.00	3581	295.00	265
36.00	72	127.00	220416	209.00	1251	296.00	28104
37.00	874	128.00	16920	210.00	1520	297.00	4271
38.00	2237	129.00	84688	211.00	4575	298.00	346
39.00	12456	130.00	6913	212.00	738	299.00	86
40.00	161	131.00	1221	213.00	297	301.00	418
41.00	56	132.00	693	214.00	194	302.00	558
42.00	52	133.00	288	215.00	1129	303.00	3713
48.00	64	134.00	2255	216.00	2211	304.00	1012
49.00	770	135.00	6823	217.00	26872	308.00	299
50.00	44896	136.00	2710	218.00	3473	309.00	305
51.00	181824	137.00	3794	219.00	391	310.00	408
52.00	9433	138.00	607	220.00	453	311.00	67
53.00	187	139.00	164	221.00	25448	313.00	230
55.00	843	140.00	839	223.00	6497	314.00	1576
56.00	5119	141.00	9257	224.00	64024	315.00	3380
57.00	11279	142.00	3635	225.00	16568	316.00	1572
58.00	560	143.00	2536	226.00	1668	317.00	297
59.00	55	144.00	611	227.00	25352	320.00	133
60.00	71	145.00	633	228.00	3403	321.00	178
61.00	2386	146.00	1694	229.00	5535	322.00	560
62.00	2555	147.00	5509	230.00	829	323.00	8300
63.00	6739	148.00	11612	231.00	2170	324.00	2016
64.00	1146	149.00	2492	232.00	434	326.00	52
65.00	3335	150.00	708	233.00	590	327.00	1310
66.00	297	151.00	1751	234.00	1588	328.00	985
68.00	2478	152.00	571	235.00	1703	330.00	60
69.00	175424	153.00	3564	236.00	1346	332.00	666
70.00	745	154.00	2265	237.00	2096	333.00	838
71.00	331	155.00	5601	238.00	313	334.00	6674
72.00	53	156.00	8723	239.00	1088	335.00	1613
73.00	334	157.00	1974	240.00	827	336.00	65
74.00	17312	158.00	2033	241.00	1347	339.00	116
75.00	28096	159.00	1521	242.00	3326	340.00	113
76.00	10065	160.00	3243	243.00	3196	341.00	974
77.00	212096	161.00	4910	244.00	49872	342.00	333
78.00	14707	162.00	1556	245.00	5934	346.00	2287
79.00	13092	163.00	573	246.00	9506	347.00	311
80.00	10269	164.00	430	247.00	1819	351.00	125
81.00	13459	165.00	3695	248.00	491	352.00	2730

82.00	3360	166.00	2929	249.00	1783	353.00	2087
83.00	3192	167.00	19400	250.00	389	354.00	3151
85.00	2123	168.00	10793	251.00	636	355.00	549
86.00	4058	169.00	1460	252.00	466	359.00	165
87.00	1683	170.00	711	253.00	1207	365.00	13507
88.00	633	171.00	1154	255.00	236608	366.00	2066
89.00	206	172.00	1824	256.00	34568	367.00	58
90.00	60	173.00	2790	257.00	2586	370.00	424
91.00	3208	174.00	4731	258.00	12581	371.00	688
92.00	3374	175.00	8454	259.00	2393	372.00	5764
93.00	18824	176.00	2357	260.00	565	373.00	1331
94.00	1377	177.00	3342	261.00	381	374.00	115
96.00	1235	178.00	1378	263.00	110	377.00	132
97.00	523	179.00	14205	264.00	159	383.00	1621
98.00	16776	180.00	9923	265.00	4818	384.00	443
99.00	13284	181.00	4909	266.00	843	385.00	225
100.00	1296	182.00	938	267.00	128	390.00	764
101.00	7916	183.00	656	269.00	56	391.00	540
102.00	471	184.00	1259	270.00	402	392.00	483
103.00	2377	185.00	7081	271.00	456	401.00	170
104.00	5055	186.00	59936	272.00	767	402.00	1961
105.00	4585	187.00	16856	273.00	7202	403.00	2955
106.00	1266	188.00	1897	274.00	19976	404.00	1233
107.00	61200	189.00	3823	275.00	111552	405.00	126
108.00	10118	190.00	797	276.00	15223	407.00	54
109.00	1722	191.00	1504	277.00	8682	415.00	103
110.00	115640	192.00	5140	278.00	1683	421.00	2472
111.00	16608	193.00	5322	279.00	434	422.00	2438
112.00	2066	194.00	1204	280.00	83	423.00	19224
113.00	372	195.00	520	281.00	87	424.00	3488
114.00	147	196.00	13503	282.00	322	425.00	244
115.00	27	197.00	2636	283.00	1152	436.00	54
116.00	3344	198.00	456128	284.00	666	437.00	55
117.00	47560	199.00	29176	285.00	1656	441.00	50936
118.00	3745	200.00	2583	286.00	387	442.00	363008
119.00	550	201.00	2328	288.00	86	443.00	70376
120.00	775	202.00	384	289.00	326	444.00	6788
121.00	148	203.00	2857	290.00	359	445.00	430
122.00	4237	204.00	14806	291.00	318		
123.00	5933	205.00	26472	292.00	382		
124.00	2326	206.00	110744	293.00	2146		
125.00	2770	207.00	13783	294.00	628		

TestAmerica Inc

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Zs14560.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-DEC-2009 07:33
Operator : S.Jonas Inst ID: msz.i
Smp Info : DFTPP
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\mszdftppSW.m
Meth Date : 28-May-2009 13:44 stephan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CONMSA

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

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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
10.256	10.259	-0.003	198	564544			0.00- 100.00	100.00
10.256	7.881	2.375	51	173376			30.00- 60.00	30.71
10.256	7.881	2.375	68	2763			0.00- 2.00	1.38
10.256	7.881	2.375	69	200192			0.00- 100.00	35.46
10.256	7.881	2.375	70	271			0.00- 2.00	0.14
10.256	7.881	2.375	127	284096			40.00- 60.00	50.32
10.256	7.881	2.375	197	3405			0.00- 1.00	0.60
10.256	7.881	2.375	199	37416			5.00- 9.00	6.63
10.256	7.881	2.375	275	137536			10.00- 30.00	24.36
10.256	7.881	2.375	365	16220			1.00- 100.00	2.87
10.256	7.881	2.375	441	49568			0.01- 99.99	77.55
10.256	7.881	2.375	442	320384			40.00- 100.00	56.75
10.256	7.881	2.375	443	63920			17.00- 23.00	19.95

Data File: Zs14560.D

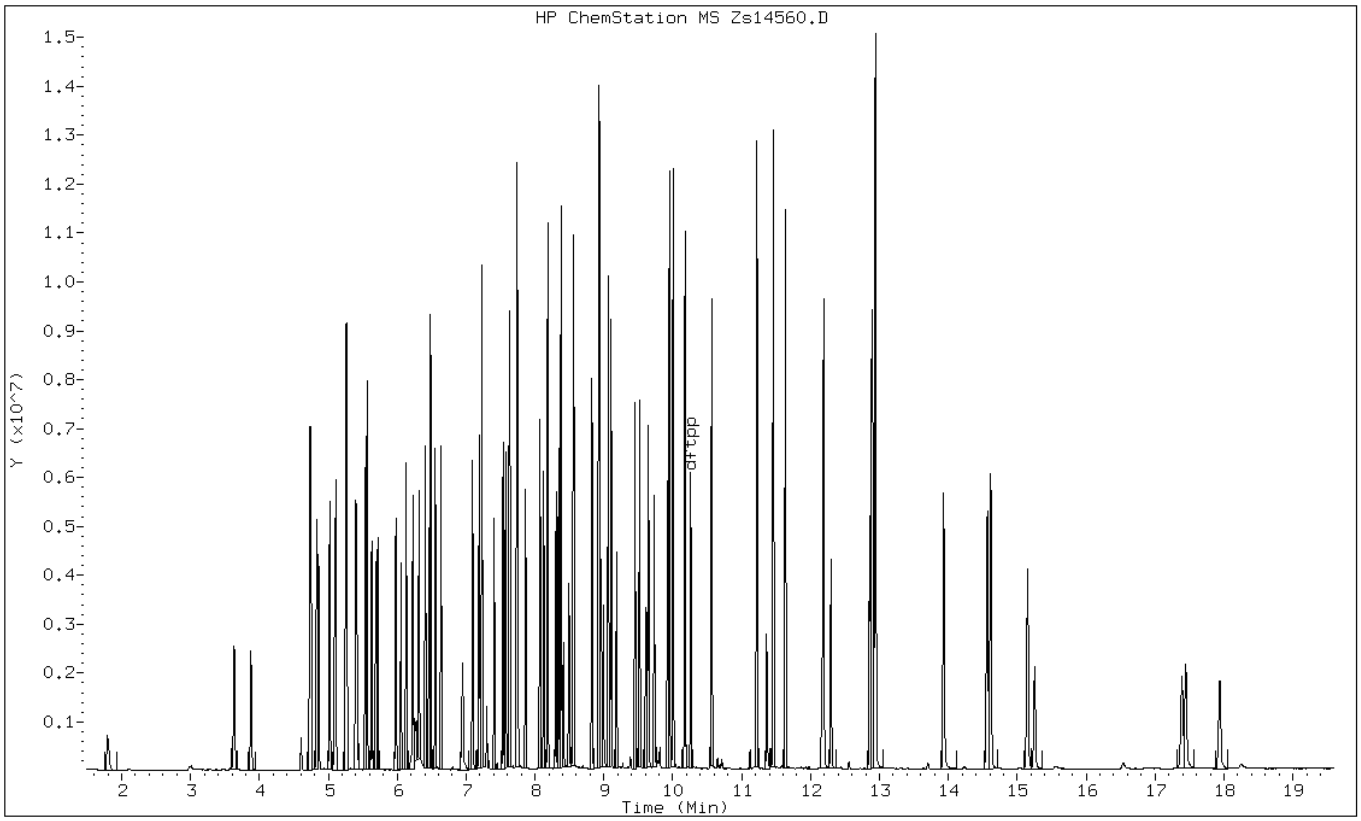
Date: 21-DEC-2009 07:33

Client ID: DFTPP

Instrument: msz.i

Sample Info: DFTPP

Operator: S.Jonas



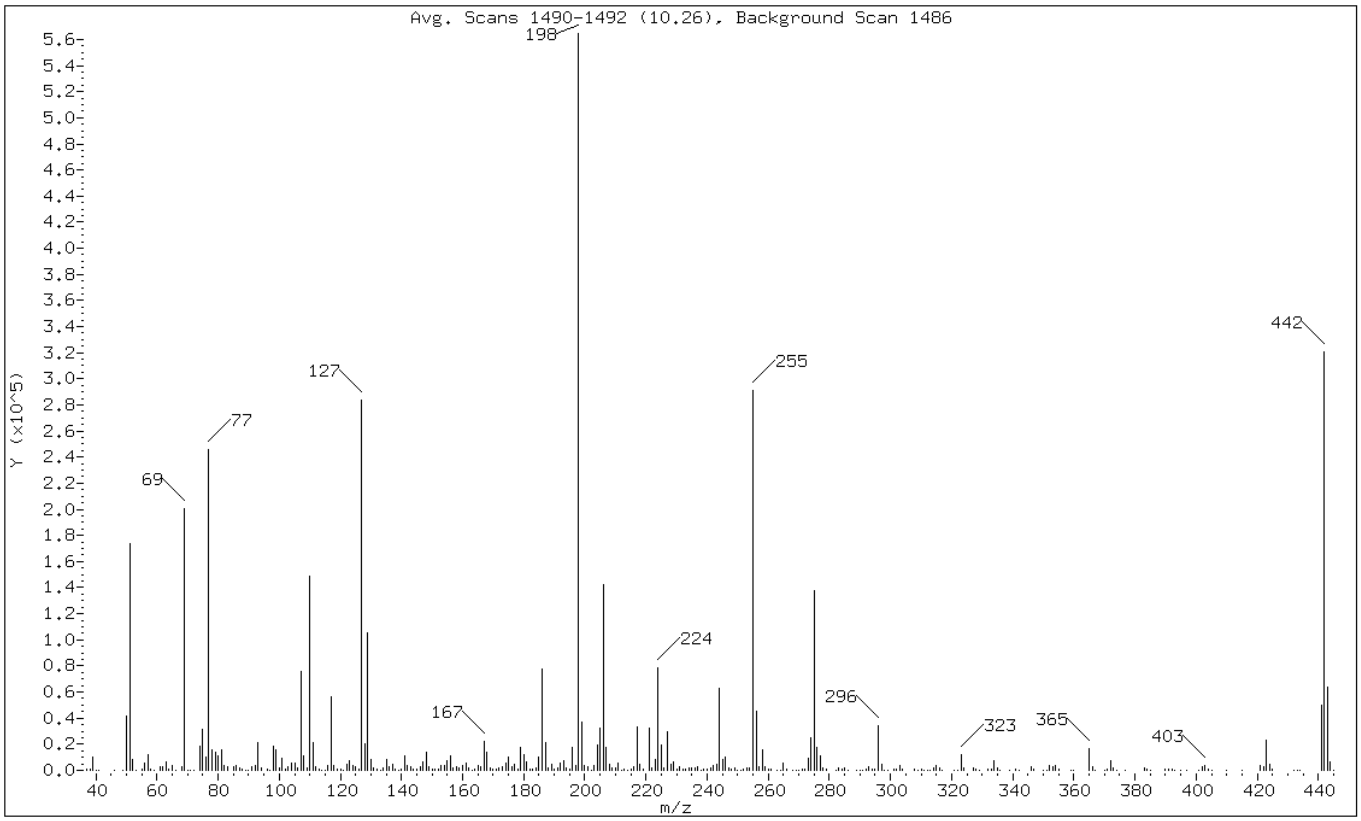
Data File: Zs14560.D

Date: 21-DEC-2009 07:33

Client ID: DFTPP Instrument: msz.i

Sample Info: DFTPP Operator: S.Jonas

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.71
68	Less than 2.00% of mass 69	0.49 (1.38)
69	Less than 100.00% of mass 198	35.46
70	Less than 2.00% of mass 69	0.05 (0.14)
127	40.00 - 60.00% of mass 198	50.32
197	Less than 1.00% of mass 198	0.60
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 30.00% of mass 198	24.36
365	1.00 - 100.00% of mass 198	2.87
441	Present, but less than mass 443	8.78
442	40.00 - 100.00% of mass 198	56.75
443	17.00 - 23.00% of mass 442	11.32 (19.95)

Data File: Zs14560.D

Date: 21-DEC-2009 07:33

Client ID: DFTPP Instrument: msz.i

Sample Info: DFTPP Operator: S.Jonas

Data File: \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Zs14560.D
Spectrum: Avg. Scans 1490-1492 (10.26), Background Scan 1486
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	462	130.00	8537	211.00	5324	299.00	66
38.00	1349	131.00	1434	212.00	398	301.00	552
39.00	10042	132.00	521	213.00	465	302.00	521
40.00	439	133.00	225	214.00	211	303.00	4012
41.00	132	134.00	2148	215.00	1300	304.00	1228
46.00	68	135.00	8141	216.00	2577	308.00	514
49.00	115	136.00	3090	217.00	32952	309.00	405
50.00	41440	137.00	4622	218.00	4319	310.00	516
51.00	173376	138.00	637	219.00	550	311.00	95
52.00	8513	139.00	84	221.00	32408	312.00	56
53.00	147	140.00	835	222.00	1480	313.00	333
55.00	743	141.00	11496	223.00	8088	314.00	1851
56.00	5292	142.00	3974	224.00	78208	315.00	3355
57.00	12190	143.00	2602	225.00	19696	316.00	2242
58.00	515	144.00	928	226.00	2063	317.00	318
59.00	2	145.00	831	227.00	29728	321.00	324
61.00	2374	146.00	2373	228.00	4306	322.00	382
62.00	2488	147.00	6825	229.00	6839	323.00	11555
63.00	6422	148.00	13883	230.00	877	324.00	2260
64.00	1102	149.00	2886	231.00	2699	327.00	2264
65.00	3477	150.00	1012	232.00	617	328.00	1110
66.00	213	151.00	1339	233.00	571	329.00	130
68.00	2763	152.00	876	234.00	1524	332.00	1290
69.00	200192	153.00	3872	235.00	2032	333.00	1126
70.00	271	154.00	3235	236.00	1423	334.00	7433
71.00	66	155.00	7055	237.00	2317	335.00	1890
72.00	49	156.00	10878	238.00	330	336.00	25
74.00	18424	157.00	2077	239.00	935	339.00	85
75.00	31760	158.00	2389	240.00	840	341.00	1279
76.00	10470	159.00	1889	241.00	1541	342.00	385
77.00	245696	160.00	3767	242.00	4043	346.00	2883
78.00	16157	161.00	5654	243.00	4339	347.00	462
79.00	13549	162.00	1645	244.00	62456	350.00	114
80.00	10926	163.00	239	245.00	8399	351.00	51
81.00	15711	164.00	553	246.00	10085	352.00	3635
82.00	3856	165.00	3685	247.00	2150	353.00	2420
83.00	3027	166.00	3069	248.00	734	354.00	3977
85.00	2645	167.00	22544	249.00	2162	355.00	818
86.00	3838	168.00	13591	250.00	244	359.00	379
87.00	2099	169.00	2035	251.00	295	360.00	76

88.00	605	170.00	831	252.00	566	365.00	16220
89.00	260	171.00	1001	253.00	1430	366.00	2557
90.00	264	172.00	2208	254.00	1457	367.00	184
91.00	3191	173.00	2794	255.00	291264	370.00	388
92.00	3859	174.00	5558	256.00	45104	371.00	907
93.00	21552	175.00	10285	257.00	3111	372.00	7326
94.00	1418	176.00	2874	258.00	15864	373.00	1877
96.00	997	177.00	4571	259.00	2397	374.00	244
97.00	193	178.00	1034	260.00	507	377.00	76
98.00	18856	179.00	17408	261.00	561	383.00	1865
99.00	15871	180.00	12464	263.00	90	384.00	645
100.00	1462	181.00	6500	264.00	240	385.00	72
101.00	9387	182.00	1301	265.00	5779	390.00	988
102.00	495	183.00	708	266.00	602	391.00	656
103.00	3098	184.00	1751	268.00	85	392.00	506
104.00	5643	185.00	10095	269.00	119	393.00	62
105.00	5306	186.00	77760	270.00	357	395.00	57
106.00	1589	187.00	21176	271.00	560	397.00	201
107.00	76224	188.00	1639	272.00	727	401.00	453
108.00	11508	189.00	4525	273.00	9196	402.00	2881
109.00	1806	190.00	720	274.00	25176	403.00	3901
110.00	148416	191.00	1960	275.00	137536	404.00	1270
111.00	21304	192.00	5942	276.00	17816	405.00	180
112.00	2863	193.00	6958	277.00	10627	410.00	112
113.00	542	194.00	1724	278.00	1805	415.00	161
114.00	108	195.00	960	279.00	498	421.00	3305
115.00	12	196.00	17744	282.00	274	422.00	2761
116.00	3682	197.00	3405	283.00	1407	423.00	22848
117.00	56016	198.00	564544	284.00	618	424.00	5072
118.00	3943	199.00	37416	285.00	1845	425.00	597
119.00	655	200.00	3240	286.00	398	432.00	55
120.00	808	201.00	2790	289.00	409	433.00	54
121.00	258	202.00	246	290.00	420	434.00	163
122.00	4299	203.00	3550	291.00	292	441.00	49568
123.00	7117	204.00	19856	292.00	463	442.00	320384
124.00	3255	205.00	32672	293.00	2337	443.00	63920
125.00	3042	206.00	142144	294.00	864	444.00	6354
126.00	648	207.00	17640	295.00	589	445.00	376
127.00	284096	208.00	4594	296.00	34320		
128.00	20600	209.00	1417	297.00	4991		
129.00	104960	210.00	1492	298.00	122		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34329/1-A

Matrix: Water | Lab File ID: Z14567.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 10:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	4.0	U	4.0	0.37
95-95-4	2,4,5-Trichlorophenol	10	U	10	0.28
88-06-2	2,4,6-Trichlorophenol	4.0	U	4.0	0.37
120-83-2	2,4-Dichlorophenol	4.0	U	4.0	0.33
105-67-9	2,4-Dimethylphenol	4.0	U	4.0	0.33
121-14-2	2,4-Dinitrotoluene	4.0	U	4.0	0.40
51-28-5	2,4-Dinitrophenol	25	U	25	0.43
606-20-2	2,6-Dinitrotoluene	4.0	U	4.0	0.26
91-58-7	2-Chloronaphthalene	4.0	U	4.0	0.39
95-57-8	2-Chlorophenol	4.0	U	4.0	0.23
91-57-6	2-Methylnaphthalene	4.0	U	4.0	0.27
95-48-7	2-Methylphenol	4.0	U	4.0	0.24
88-74-4	2-Nitroaniline	4.0	U	4.0	0.34
88-75-5	2-Nitrophenol	4.0	U	4.0	0.27
91-94-1	3,3'-Dichlorobenzidine	4.0	U	4.0	0.36
99-09-2	3-Nitroaniline	4.0	U	4.0	0.23
534-52-1	4,6-Dinitro-2-methylphenol	25	U	25	1.9
101-55-3	4-Bromophenyl phenyl ether	4.0	U	4.0	0.44
59-50-7	4-Chloro-3-methylphenol	5.0	U	5.0	0.34
106-47-8	4-Chloroaniline	4.0	U	4.0	0.29
7005-72-3	4-Chlorophenyl phenyl ether	4.0	U	4.0	0.35
106-44-5	4-Methylphenol	4.0	U	4.0	0.29
100-01-6	4-Nitroaniline	4.0	U	4.0	0.20
100-02-7	4-Nitrophenol	10	U	10	1.4
83-32-9	Acenaphthene	4.0	U	4.0	0.31
208-96-8	Acenaphthylene	4.0	U	4.0	0.34
98-86-2	Acetophenone	4.0	U	4.0	0.33
120-12-7	Anthracene	4.0	U	4.0	0.29
1912-24-9	Atrazine	4.0	U	4.0	0.18
100-52-7	Benzaldehyde	10	U	10	0.68
56-55-3	Benzo[a]anthracene	4.0	U	4.0	0.30
50-32-8	Benzo[a]pyrene	4.0	U	4.0	0.35
205-99-2	Benzo[b]fluoranthene	4.0	U	4.0	0.36
191-24-2	Benzo[g,h,i]perylene	4.0	U	4.0	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34329/1-A

Matrix: Water | Lab File ID: Z14567.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 10:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	4.0	U	4.0	0.40
111-91-1	Bis(2-chloroethoxy)methane	4.0	U	4.0	0.31
111-44-4	Bis(2-chloroethyl)ether	4.0	U	4.0	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	4.0	U	4.0	0.54
85-68-7	Butyl benzyl phthalate	4.0	U	4.0	0.35
105-60-2	Caprolactam	4.0	U	4.0	0.92
86-74-8	Carbazole	4.0	U	4.0	0.33
218-01-9	Chrysene	4.0	U	4.0	0.25
84-74-2	Di-n-butyl phthalate	4.0	U	4.0	0.35
117-84-0	Di-n-octyl phthalate	4.0	U	4.0	0.38
53-70-3	Dibenz(a,h)anthracene	4.0	U	4.0	0.38
132-64-9	Dibenzofuran	4.0	U	4.0	0.43
84-66-2	Diethyl phthalate	4.0	U	4.0	0.43
131-11-3	Dimethyl phthalate	4.0	U	4.0	0.38
206-44-0	Fluoranthene	4.0	U	4.0	0.31
86-73-7	Fluorene	4.0	U	4.0	0.26
118-74-1	Hexachlorobenzene	4.0	U	4.0	0.33
87-68-3	Hexachlorobutadiene	4.0	U	4.0	0.20
77-47-4	Hexachlorocyclopentadiene	4.0	U	4.0	0.35
67-72-1	Hexachloroethane	4.0	U	4.0	0.37
193-39-5	Indeno[1,2,3-cd]pyrene	4.0	U	4.0	0.28
78-59-1	Isophorone	4.0	U	4.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	4.0	U	4.0	0.33
86-30-6	N-Nitrosodiphenylamine	4.0	U	4.0	0.33
91-20-3	Naphthalene	4.0	U	4.0	0.30
98-95-3	Nitrobenzene	4.0	U	4.0	0.28
87-86-5	Pentachlorophenol	25	U	25	0.31
85-01-8	Phenanthrene	4.0	U	4.0	0.28
108-95-2	Phenol	4.0	U	4.0	0.19
129-00-0	Pyrene	4.0	U	4.0	0.33
108-60-1	2,2'-oxybis[1-chloropropane]	4.0	U	4.0	0.25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 220-34329/1-A

Matrix: Water Lab File ID: Z14567.D

Analysis Method: 8270C Date Collected:

Extract. Method: 3510C Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) Date Analyzed: 12/21/2009 10:53

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	57	36-120	
321-60-8	2-Fluorobiphenyl	45	39-120	
367-12-4	2-Fluorophenol	22	13-120	
4165-60-0	Nitrobenzene-d5	44	40-120	
4165-62-2	Phenol-d5	15	10-120	
1718-51-0	Terphenyl-d14	79	10-120	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14567.D
Lab Smp Id: MB 220-34329/1-A Client Smp ID: MB 220-34329/1-A
Inj Date : 21-DEC-2009 10:53
Operator : S.Jonas Inst ID: msz.i
Smp Info : MB 220-34329/1-A
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

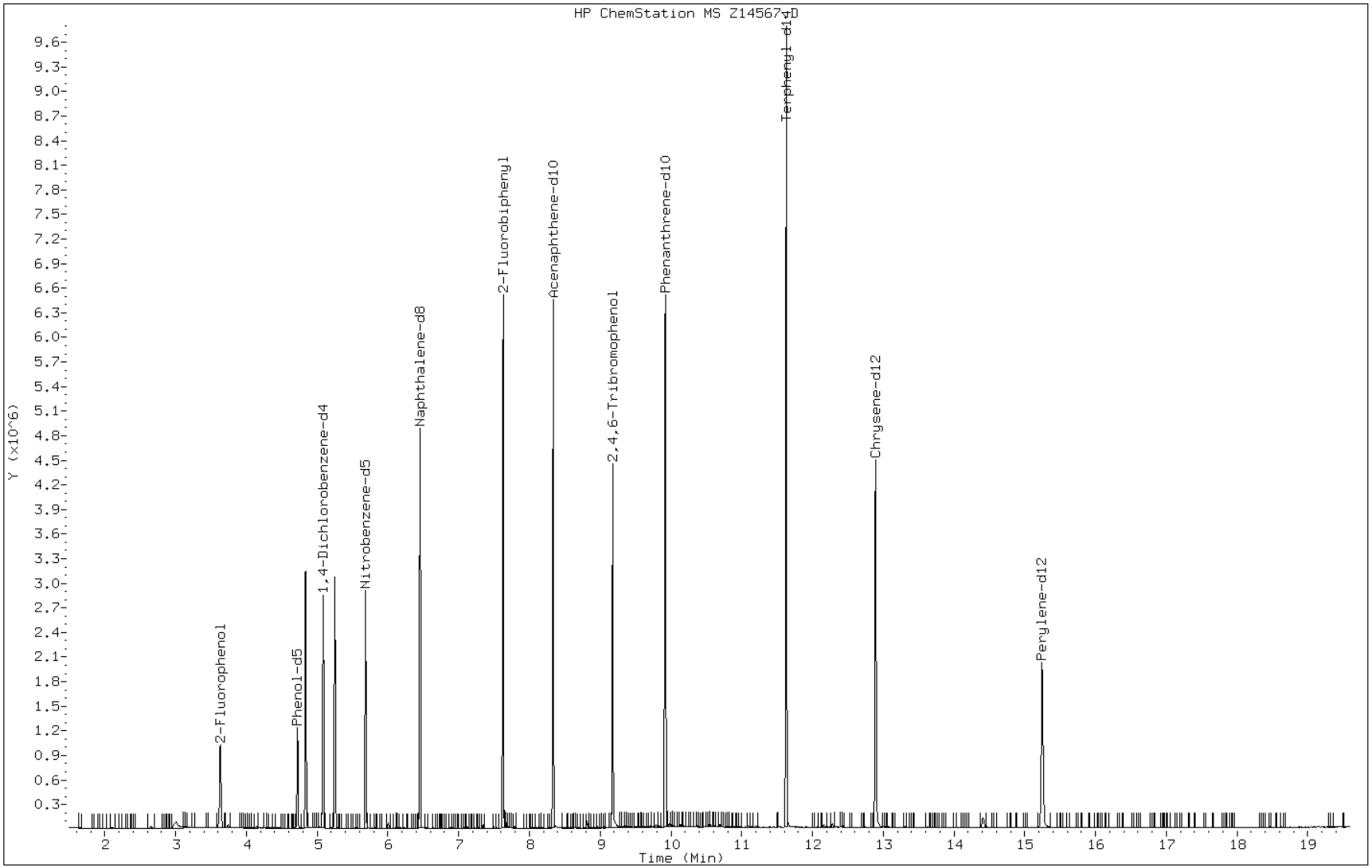
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.086	5.087	(1.000)	528499	20.0000	
$ 2 2-Fluorophenol	112	3.633	3.634	(0.714)	518636	16.4902	16
$ 3 Phenol-d5	99	4.722	4.734	(0.928)	472529	11.3419	11
* 20 Naphthalene-d8	136	6.457	6.457	(1.000)	2371335	20.0000	
$ 21 Nitrobenzene-d5	82	5.686	5.693	(0.881)	862901	21.9632	22
* 35 Acenaphthene-d10	164	8.333	8.339	(1.000)	1501735	20.0000	
$ 40 2-Fluorobiphenyl	172	7.627	7.634	(0.915)	2065845	22.5516	23
$ 56 2,4,6-Tribromophenol	330	9.180	9.186	(1.102)	556453	42.6525	43
* 57 Phenanthrene-d10	188	9.921	9.922	(1.000)	2556288	20.0000	
* 70 Chrysene-d12	240	12.892	12.904	(1.000)	2063310	20.0000	
$ 73 Terphenyl-d14	244	11.627	11.633	(0.902)	3402877	39.5428	40
* 79 Perylene-d12	264	15.244	15.257	(1.000)	1150080	20.0000	

Data File: Z14567.D

Date: 21-DEC-2009 10:53

Client ID: MB 220-34329/1-A Instrument: msz.i

Sample Info: MB 220-34329/1-A Operator: S.Jonas



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34351/1-A

Matrix: Solid | Lab File ID: C15358.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.0(g) | Date Analyzed: 12/21/2009 08:44

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34490 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	270	U	270	18
95-95-4	2,4,5-Trichlorophenol	1700	U	1700	14
88-06-2	2,4,6-Trichlorophenol	270	U	270	7.4
120-83-2	2,4-Dichlorophenol	270	U	270	14
105-67-9	2,4-Dimethylphenol	270	U	270	13
121-14-2	2,4-Dinitrotoluene	270	U	270	22
51-28-5	2,4-Dinitrophenol	1700	U	1700	81
606-20-2	2,6-Dinitrotoluene	270	U	270	7.9
91-58-7	2-Chloronaphthalene	270	U	270	12
95-57-8	2-Chlorophenol	270	U	270	16
91-57-6	2-Methylnaphthalene	270	U	270	7.7
95-48-7	2-Methylphenol	270	U	270	16
88-74-4	2-Nitroaniline	670	U	670	16
88-75-5	2-Nitrophenol	270	U	270	17
91-94-1	3,3'-Dichlorobenzidine	330	U	330	56
99-09-2	3-Nitroaniline	670	U	670	8.6
534-52-1	4,6-Dinitro-2-methylphenol	1700	U	1700	120
101-55-3	4-Bromophenyl phenyl ether	270	U	270	17
59-50-7	4-Chloro-3-methylphenol	270	U	270	11
106-47-8	4-Chloroaniline	270	U	270	44
7005-72-3	4-Chlorophenyl phenyl ether	270	U	270	20
106-44-5	4-Methylphenol	270	U	270	18
100-01-6	4-Nitroaniline	270	U	270	21
100-02-7	4-Nitrophenol	1700	U	1700	20
83-32-9	Acenaphthene	270	U	270	16
208-96-8	Acenaphthylene	270	U	270	13
98-86-2	Acetophenone	270	U	270	14
120-12-7	Anthracene	270	U	270	11
1912-24-9	Atrazine	330	U	330	17
100-52-7	Benzaldehyde	270	U	270	45
56-55-3	Benzo[a]anthracene	270	U	270	9.6
50-32-8	Benzo[a]pyrene	270	U	270	7.3
205-99-2	Benzo[b]fluoranthene	270	U	270	7.2
191-24-2	Benzo[g,h,i]perylene	270	U	270	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34351/1-A

Matrix: Solid | Lab File ID: C15358.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.0(g) | Date Analyzed: 12/21/2009 08:44

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34490 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	270	U	270	24
111-91-1	Bis(2-chloroethoxy)methane	270	U	270	13
111-44-4	Bis(2-chloroethyl)ether	270	U	270	14
117-81-7	Bis(2-ethylhexyl) phthalate	54.5	J	270	26
85-68-7	Butyl benzyl phthalate	270	U	270	15
105-60-2	Caprolactam	270	U	270	21
86-74-8	Carbazole	270	U	270	15
218-01-9	Chrysene	270	U	270	20
84-74-2	Di-n-butyl phthalate	270	U	270	39
117-84-0	Di-n-octyl phthalate	270	U	270	15
53-70-3	Dibenz(a,h)anthracene	270	U	270	21
132-64-9	Dibenzofuran	270	U	270	19
84-66-2	Diethyl phthalate	270	U	270	27
131-11-3	Dimethyl phthalate	270	U	270	16
206-44-0	Fluoranthene	270	U	270	13
86-73-7	Fluorene	270	U	270	16
118-74-1	Hexachlorobenzene	270	U	270	19
87-68-3	Hexachlorobutadiene	270	U	270	21
77-47-4	Hexachlorocyclopentadiene	670	U	670	130
67-72-1	Hexachloroethane	270	U	270	15
193-39-5	Indeno[1,2,3-cd]pyrene	270	U	270	18
78-59-1	Isophorone	270	U	270	15
621-64-7	N-Nitrosodi-n-propylamine	270	U	270	18
86-30-6	N-Nitrosodiphenylamine	270	U	270	15
91-20-3	Naphthalene	270	U	270	14
98-95-3	Nitrobenzene	270	U	270	17
87-86-5	Pentachlorophenol	670	U	670	160
85-01-8	Phenanthrene	270	U	270	13
108-95-2	Phenol	270	U	270	18
129-00-0	Pyrene	270	U	270	13
108-60-1	2,2'-oxybis[1-chloropropane]	270	U	270	14

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 220-34351/1-A

Matrix: Solid Lab File ID: C15358.D

Analysis Method: 8270C Date Collected:

Extract. Method: 3541 Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.0(g) Date Analyzed: 12/21/2009 08:44

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 34490 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	67	37-120	
321-60-8	2-Fluorobiphenyl	65	41-120	
367-12-4	2-Fluorophenol	67	34-120	
4165-60-0	Nitrobenzene-d5	69	38-120	
4165-62-2	Phenol-d5	67	36-120	
1718-51-0	Terphenyl-d14	65	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915356.b\C15358.D
Lab Smp Id: MB 220-34351/1-A Client Smp ID: MB 220-34351/1-A
Inj Date : 21-DEC-2009 08:44
Operator : S.Jonas Inst ID: msc.i
Smp Info : MB 220-34351/1-A
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915356.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:37 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.000	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

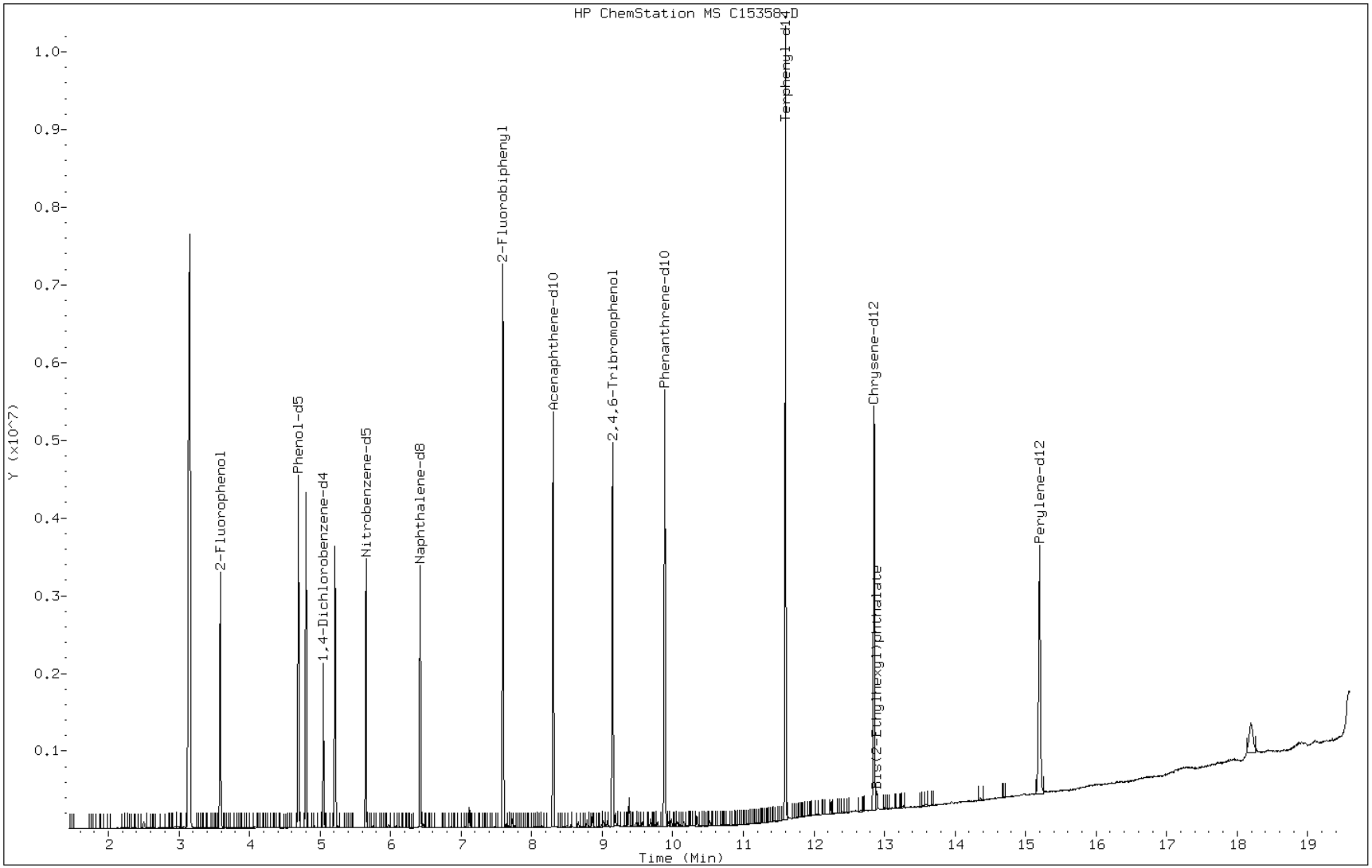
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.045	5.051	(1.000)	307586	20.0000	
$	2 2-Fluorophenol	112	3.585	3.579	(0.711)	973929	49.8898	3300
$	3 Phenol-d5	99	4.695	4.701	(0.931)	1372351	50.2341	3300
*	20 Naphthalene-d8	136	6.422	6.428	(1.000)	1495844	20.0000	
$	21 Nitrobenzene-d5	82	5.650	5.656	(0.880)	949138	34.2791	2300
*	35 Acenaphthene-d10	164	8.303	8.309	(1.000)	1126751	20.0000	
$	40 2-Fluorobiphenyl	172	7.591	7.597	(0.914)	2204731	32.4157	2200
$	56 2,4,6-Tribromophenol	330	9.146	9.152	(1.101)	518294	50.4687	3400
*	57 Phenanthrene-d10	188	9.888	9.894	(1.000)	2003470	20.0000	
*	70 Chrysene-d12	240	12.850	12.862	(1.000)	2381688	20.0000	
$	73 Terphenyl-d14	244	11.597	11.603	(0.903)	3244919	32.7461	2200
	78 Bis(2-Ethylhexyl)phthalate	149	12.891	12.897	(1.003)	73335	0.81802	55
*	79 Perylene-d12	264	15.200	15.206	(1.000)	1811528	20.0000	

Data File: C15358.D

Date: 21-DEC-2009 08:44

Client ID: MB 220-34351/1-A Instrument: msc.i

Sample Info: MB 220-34351/1-A Operator: S.Jonas



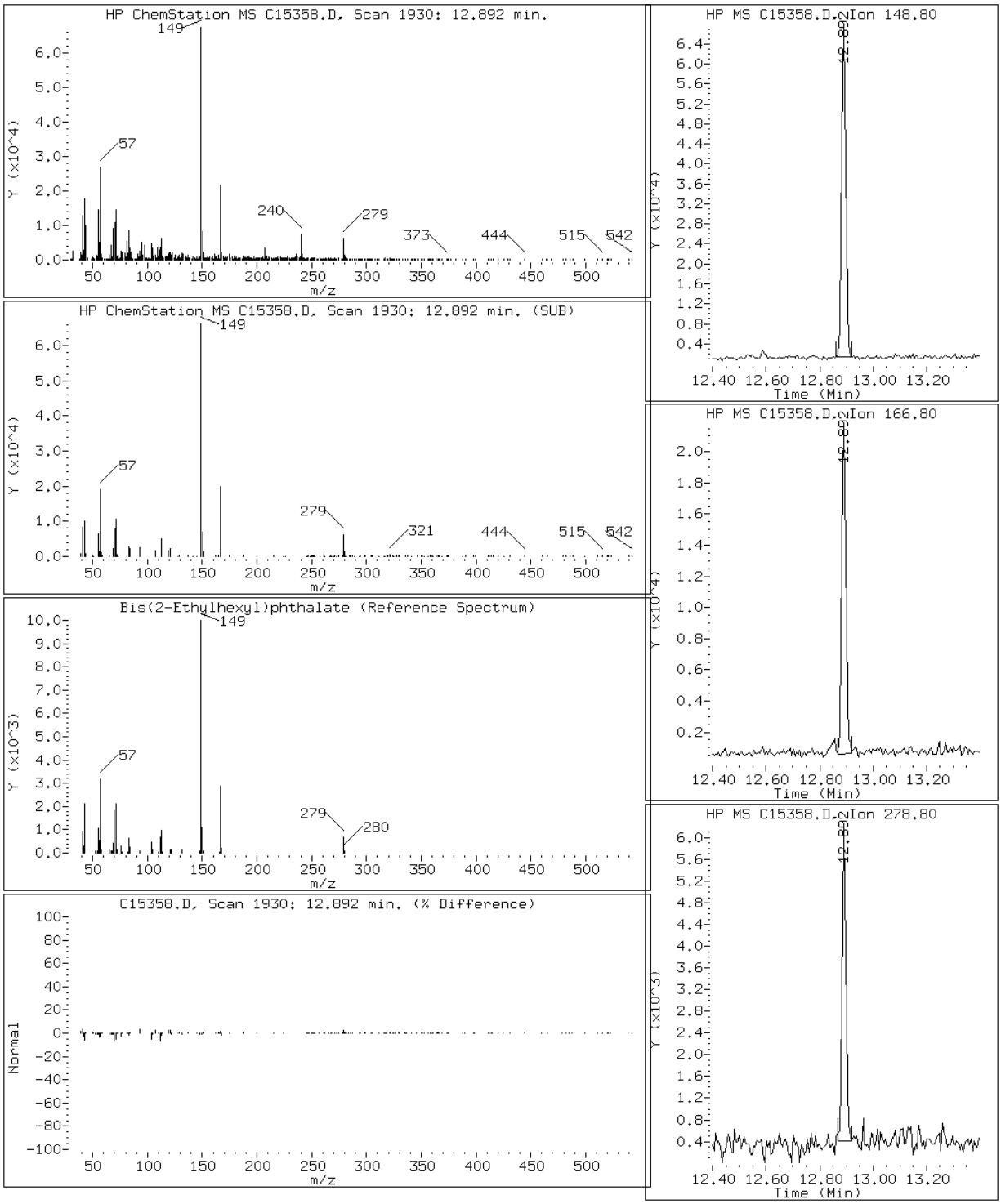
Data File: C15358.D

Date: 21-DEC-2009 08:44

Client ID: MB 220-34351/1-A Instrument: msc.i

Sample Info: MB 220-34351/1-A Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34355/1-A

Matrix: Solid | Lab File ID: C15386.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.0(g) | Date Analyzed: 12/22/2009 09:28

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	270	U	270	18
95-95-4	2,4,5-Trichlorophenol	1700	U	1700	14
88-06-2	2,4,6-Trichlorophenol	270	U	270	7.4
120-83-2	2,4-Dichlorophenol	270	U	270	14
105-67-9	2,4-Dimethylphenol	270	U	270	13
121-14-2	2,4-Dinitrotoluene	270	U	270	22
51-28-5	2,4-Dinitrophenol	1700	U	1700	81
606-20-2	2,6-Dinitrotoluene	270	U	270	7.9
91-58-7	2-Chloronaphthalene	270	U	270	12
95-57-8	2-Chlorophenol	270	U	270	16
91-57-6	2-Methylnaphthalene	270	U	270	7.7
95-48-7	2-Methylphenol	270	U	270	16
88-74-4	2-Nitroaniline	670	U	670	16
88-75-5	2-Nitrophenol	270	U	270	17
91-94-1	3,3'-Dichlorobenzidine	330	U	330	56
99-09-2	3-Nitroaniline	670	U	670	8.6
534-52-1	4,6-Dinitro-2-methylphenol	1700	U	1700	120
101-55-3	4-Bromophenyl phenyl ether	270	U	270	17
59-50-7	4-Chloro-3-methylphenol	270	U	270	11
106-47-8	4-Chloroaniline	270	U	270	44
7005-72-3	4-Chlorophenyl phenyl ether	270	U	270	20
106-44-5	4-Methylphenol	270	U	270	18
100-01-6	4-Nitroaniline	270	U	270	21
100-02-7	4-Nitrophenol	1700	U	1700	20
83-32-9	Acenaphthene	270	U	270	16
208-96-8	Acenaphthylene	270	U	270	13
98-86-2	Acetophenone	270	U	270	14
120-12-7	Anthracene	270	U	270	11
1912-24-9	Atrazine	330	U	330	17
100-52-7	Benzaldehyde	270	U	270	45
56-55-3	Benzo[a]anthracene	270	U	270	9.6
50-32-8	Benzo[a]pyrene	270	U	270	7.3
205-99-2	Benzo[b]fluoranthene	270	U	270	7.2
191-24-2	Benzo[g,h,i]perylene	270	U	270	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34355/1-A

Matrix: Solid | Lab File ID: C15386.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.0(g) | Date Analyzed: 12/22/2009 09:28

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	270	U	270	24
111-91-1	Bis(2-chloroethoxy)methane	270	U	270	13
111-44-4	Bis(2-chloroethyl)ether	270	U	270	14
117-81-7	Bis(2-ethylhexyl) phthalate	45.9	J	270	26
85-68-7	Butyl benzyl phthalate	270	U	270	15
105-60-2	Caprolactam	270	U	270	21
86-74-8	Carbazole	270	U	270	15
218-01-9	Chrysene	270	U	270	20
84-74-2	Di-n-butyl phthalate	270	U	270	39
117-84-0	Di-n-octyl phthalate	270	U	270	15
53-70-3	Dibenz(a,h)anthracene	270	U	270	21
132-64-9	Dibenzofuran	270	U	270	19
84-66-2	Diethyl phthalate	270	U	270	27
131-11-3	Dimethyl phthalate	270	U	270	16
206-44-0	Fluoranthene	270	U	270	13
86-73-7	Fluorene	270	U	270	16
118-74-1	Hexachlorobenzene	270	U	270	19
87-68-3	Hexachlorobutadiene	270	U	270	21
77-47-4	Hexachlorocyclopentadiene	670	U	670	130
67-72-1	Hexachloroethane	270	U	270	15
193-39-5	Indeno[1,2,3-cd]pyrene	270	U	270	18
78-59-1	Isophorone	270	U	270	15
621-64-7	N-Nitrosodi-n-propylamine	270	U	270	18
86-30-6	N-Nitrosodiphenylamine	270	U	270	15
91-20-3	Naphthalene	270	U	270	14
98-95-3	Nitrobenzene	270	U	270	17
87-86-5	Pentachlorophenol	670	U	670	160
85-01-8	Phenanthrene	270	U	270	13
108-95-2	Phenol	270	U	270	18
129-00-0	Pyrene	270	U	270	13
108-60-1	2,2'-oxybis[1-chloropropane]	270	U	270	14

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34355/1-A

Matrix: Solid | Lab File ID: C15386.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.0(g) | Date Analyzed: 12/22/2009 09:28

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	70	37-120	
321-60-8	2-Fluorobiphenyl	66	41-120	
367-12-4	2-Fluorophenol	68	34-120	
4165-60-0	Nitrobenzene-d5	70	38-120	
4165-62-2	Phenol-d5	69	36-120	
1718-51-0	Terphenyl-d14	67	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15386.D
Lab Smp Id: MB 220-34355/1-A Client Smp ID: MB 220-34355/1-A
Inj Date : 22-DEC-2009 09:28
Operator : S.Jonas Inst ID: msc.i
Smp Info : MB 220-34355/1-A
Misc Info :
Comment   :
Method   : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.000	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

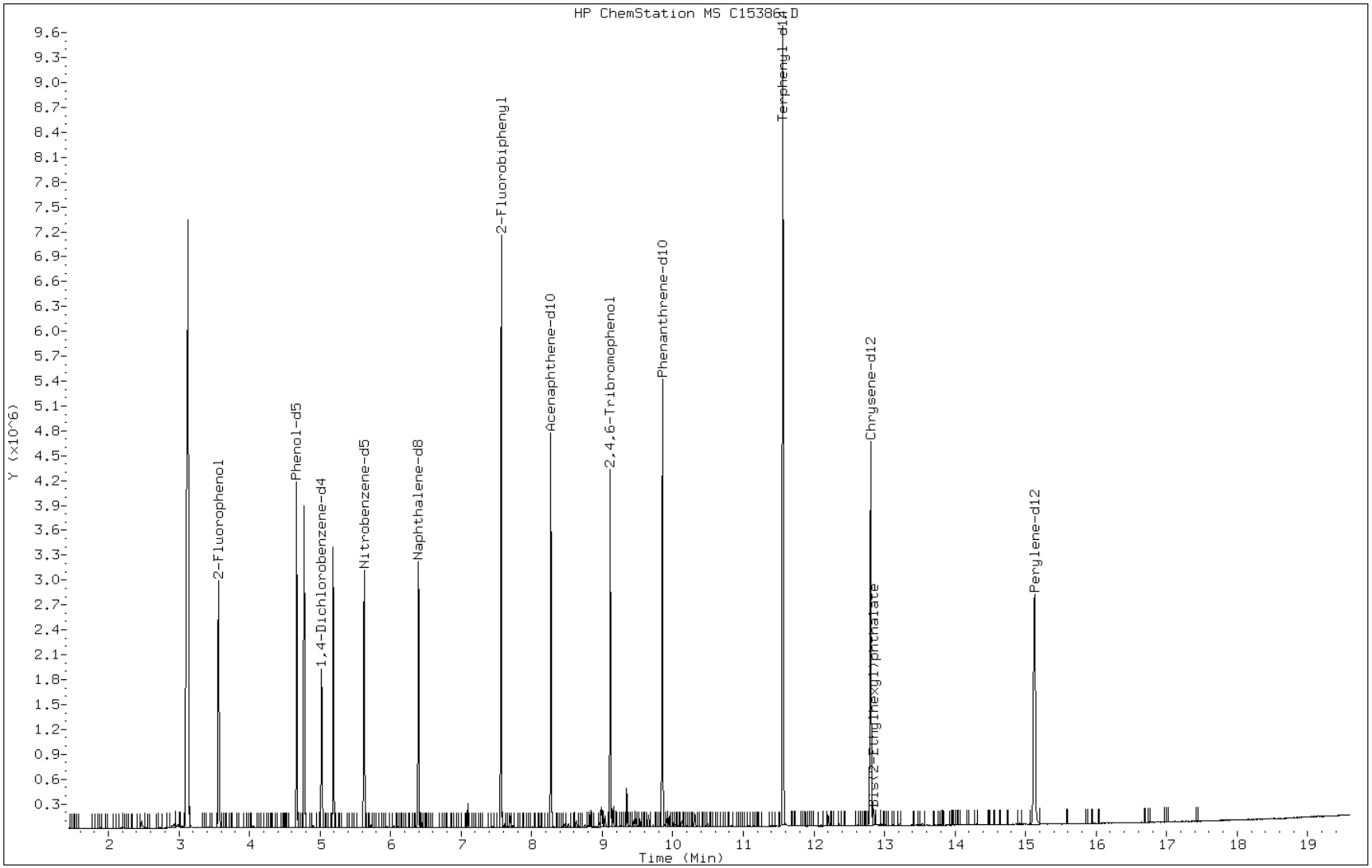
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.021	5.021	(1.000)	271392	20.0000	
$ 2	2-Fluorophenol	112	3.561	3.549	(0.709)	877376	50.9377	3400
$ 3	Phenol-d5	99	4.671	4.671	(0.930)	1238472	51.3794	3400
* 20	Naphthalene-d8	136	6.392	6.398	(1.000)	1325900	20.0000	
$ 21	Nitrobenzene-d5	82	5.627	5.627	(0.880)	863347	35.1772	2300
* 35	Acenaphthene-d10	164	8.274	8.274	(1.000)	1014187	20.0000	
$ 40	2-Fluorobiphenyl	172	7.567	7.567	(0.915)	2026761	33.1064	2200
$ 56	2,4,6-Tribromophenol	330	9.117	9.117	(1.102)	488513	52.8484	3500
* 57	Phenanthrene-d10	188	9.853	9.852	(1.000)	1816896	20.0000	
* 70	Chrysene-d12	240	12.802	12.808	(1.000)	2132343	20.0000	
$ 73	Terphenyl-d14	244	11.562	11.562	(0.903)	2992508	33.7302	2200
78	Bis(2-Ethylhexyl)phthalate	149	12.844	12.850	(1.003)	55264	0.68853	46
* 79	Perylene-d12	264	15.123	15.129	(1.000)	1598431	20.0000	

Data File: C15386.D

Date: 22-DEC-2009 09:28

Client ID: MB 220-34355/1-A Instrument: msc.i

Sample Info: MB 220-34355/1-A Operator: S.Jonas



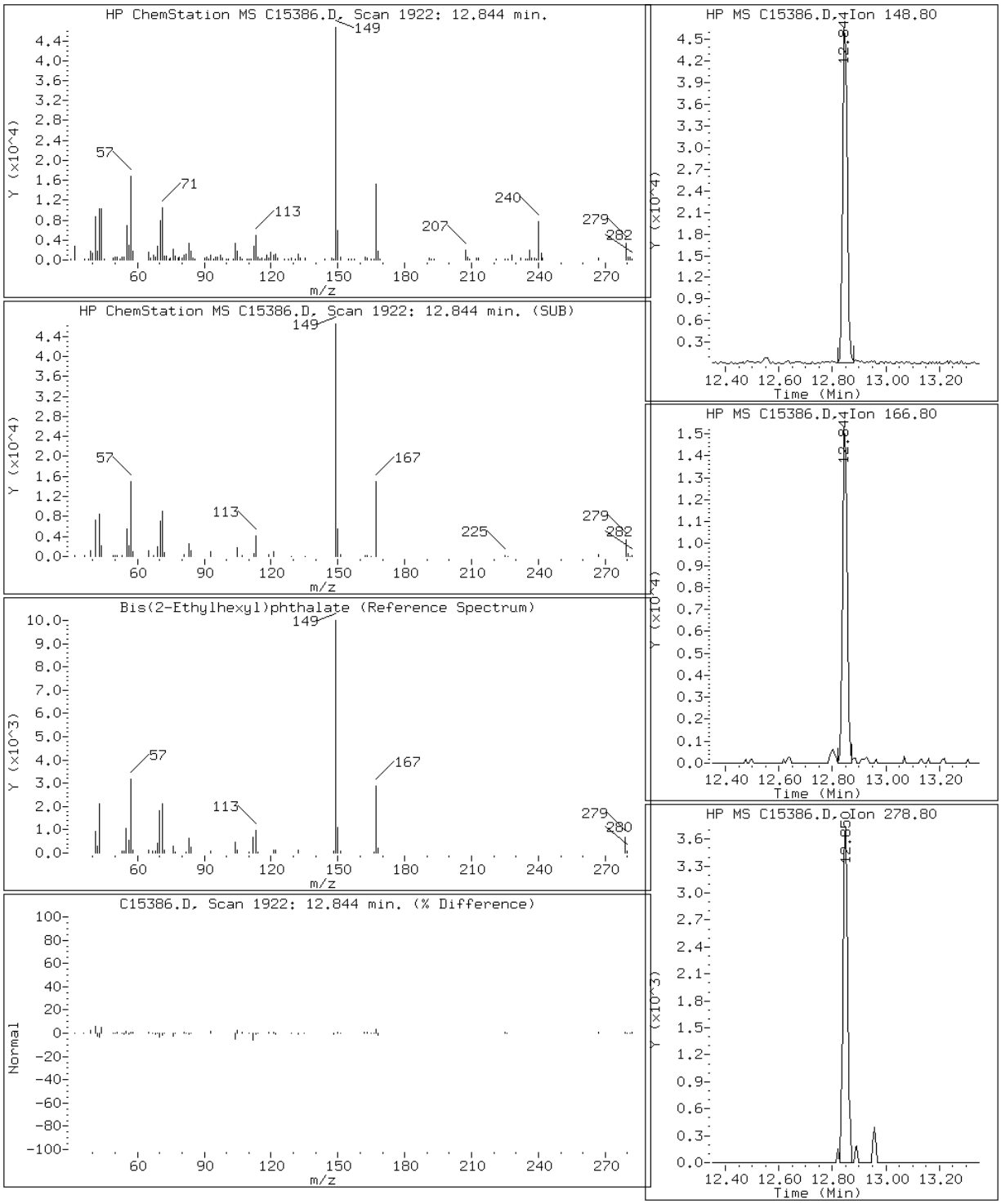
Data File: C15386.D

Date: 22-DEC-2009 09:28

Client ID: MB 220-34355/1-A Instrument: msc.i

Sample Info: MB 220-34355/1-A Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34526/1-A

Matrix: Solid | Lab File ID: A9262.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.50(g) | Date Analyzed: 12/23/2009 08:21

Con. Extract Vol.: .5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	270	U	270	18
95-95-4	2,4,5-Trichlorophenol	1700	U	1700	14
88-06-2	2,4,6-Trichlorophenol	270	U	270	7.4
120-83-2	2,4-Dichlorophenol	270	U	270	14
105-67-9	2,4-Dimethylphenol	270	U	270	13
121-14-2	2,4-Dinitrotoluene	270	U	270	22
51-28-5	2,4-Dinitrophenol	1700	U	1700	81
606-20-2	2,6-Dinitrotoluene	270	U	270	7.9
91-58-7	2-Chloronaphthalene	270	U	270	12
95-57-8	2-Chlorophenol	270	U	270	16
91-57-6	2-Methylnaphthalene	270	U	270	7.7
95-48-7	2-Methylphenol	270	U	270	16
88-74-4	2-Nitroaniline	670	U	670	16
88-75-5	2-Nitrophenol	270	U	270	17
91-94-1	3,3'-Dichlorobenzidine	330	U	330	56
99-09-2	3-Nitroaniline	670	U	670	8.6
534-52-1	4,6-Dinitro-2-methylphenol	1700	U	1700	120
101-55-3	4-Bromophenyl phenyl ether	270	U	270	17
59-50-7	4-Chloro-3-methylphenol	270	U	270	11
106-47-8	4-Chloroaniline	270	U	270	44
7005-72-3	4-Chlorophenyl phenyl ether	270	U	270	20
106-44-5	4-Methylphenol	270	U	270	18
100-01-6	4-Nitroaniline	270	U	270	21
100-02-7	4-Nitrophenol	1700	U	1700	20
83-32-9	Acenaphthene	270	U	270	16
208-96-8	Acenaphthylene	270	U	270	13
98-86-2	Acetophenone	270	U	270	14
120-12-7	Anthracene	270	U	270	11
1912-24-9	Atrazine	330	U	330	17
100-52-7	Benzaldehyde	270	U	270	45
56-55-3	Benzo[a]anthracene	14.0	J	270	9.6
50-32-8	Benzo[a]pyrene	10.5	J	270	7.3
205-99-2	Benzo[b]fluoranthene	9.19	J	270	7.2
191-24-2	Benzo[g,h,i]perylene	270	U	270	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 220-34526/1-A

Matrix: Solid | Lab File ID: A9262.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.50(g) | Date Analyzed: 12/23/2009 08:21

Con. Extract Vol.: .5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	270	U	270	24
111-91-1	Bis(2-chloroethoxy)methane	270	U	270	13
111-44-4	Bis(2-chloroethyl)ether	270	U	270	14
117-81-7	Bis(2-ethylhexyl) phthalate	40.9	J	270	26
85-68-7	Butyl benzyl phthalate	270	U	270	15
105-60-2	Caprolactam	23.0	J	270	21
86-74-8	Carbazole	270	U	270	15
218-01-9	Chrysene	270	U	270	20
84-74-2	Di-n-butyl phthalate	270	U	270	39
117-84-0	Di-n-octyl phthalate	270	U	270	15
53-70-3	Dibenz(a,h)anthracene	270	U	270	21
132-64-9	Dibenzofuran	270	U	270	19
84-66-2	Diethyl phthalate	270	U	270	27
131-11-3	Dimethyl phthalate	270	U	270	16
206-44-0	Fluoranthene	270	U	270	13
86-73-7	Fluorene	270	U	270	16
118-74-1	Hexachlorobenzene	270	U	270	19
87-68-3	Hexachlorobutadiene	270	U	270	21
77-47-4	Hexachlorocyclopentadiene	670	U	670	130
67-72-1	Hexachloroethane	270	U	270	15
193-39-5	Indeno[1,2,3-cd]pyrene	270	U	270	18
78-59-1	Isophorone	270	U	270	15
621-64-7	N-Nitrosodi-n-propylamine	270	U	270	18
86-30-6	N-Nitrosodiphenylamine	270	U	270	15
91-20-3	Naphthalene	270	U	270	14
98-95-3	Nitrobenzene	270	U	270	17
87-86-5	Pentachlorophenol	670	U	670	160
85-01-8	Phenanthrene	270	U	270	13
108-95-2	Phenol	270	U	270	18
129-00-0	Pyrene	270	U	270	13
108-60-1	2,2'-oxybis[1-chloropropane]	270	U	270	14

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 220-34526/1-A

Matrix: Solid Lab File ID: A9262.D

Analysis Method: 8270C Date Collected:

Extract. Method: 3541 Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.50(g) Date Analyzed: 12/23/2009 08:21

Con. Extract Vol.: .5(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	65	37-120	
321-60-8	2-Fluorobiphenyl	64	41-120	
367-12-4	2-Fluorophenol	63	34-120	
4165-60-0	Nitrobenzene-d5	64	38-120	
4165-62-2	Phenol-d5	63	36-120	
1718-51-0	Terphenyl-d14	61	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099261.b\A9262.D
Lab Smp Id: MB 220-34526/1-A Client Smp ID: MB 220-34526/1-A
Inj Date : 23-DEC-2009 08:21
Operator : S.Jonas Inst ID: msa.i
Smp Info : MB 220-34526/1-A
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099261.b\MSA-8270C.m
Meth Date : 23-Dec-2009 08:10 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 17:59 Cal File: Aa9222.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	0.50000	Volume of final extract (mL)(1000 low, 2
Ws	7.500	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

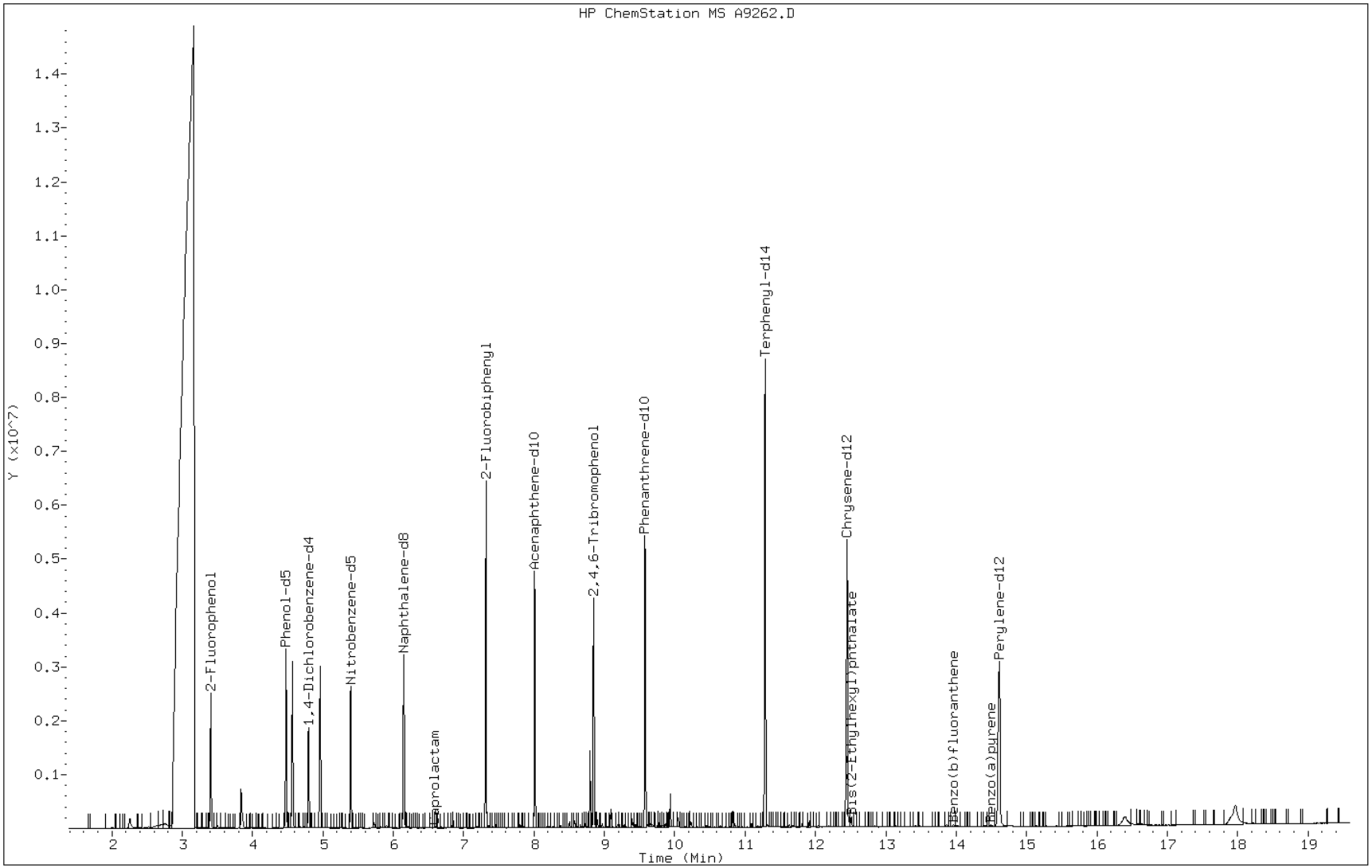
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.799	4.787	(1.000)	313502	20.0000	
$ 2	2-Fluorophenol	112	3.410	3.339	(0.711)	804851	47.0488	3100
$ 3	Phenol-d5	99	4.479	4.467	(0.933)	1242322	47.4042	3200
* 20	Naphthalene-d8	136	6.152	6.152	(1.000)	1471071	20.0000	
$ 21	Nitrobenzene-d5	82	5.399	5.399	(0.877)	822161	31.9316	2100
129	Caprolactam	113	6.580	6.681	(1.069)	2632	0.34571	23
* 35	Acenaphthene-d10	164	8.010	8.016	(1.000)	1070629	20.0000	
$ 40	2-Fluorobiphenyl	172	7.316	7.322	(0.913)	1957358	32.2342	2100
$ 56	2,4,6-Tribromophenol	330	8.853	8.859	(1.105)	478351	49.0484	3300
* 57	Phenanthrene-d10	188	9.577	9.583	(1.000)	1951813	20.0000	
* 70	Chrysene-d12	240	12.450	12.462	(1.000)	2381669	20.0000	
$ 73	Terphenyl-d14	244	11.286	11.286	(0.907)	2897535	30.5083	2000
76	Benzo(a)anthracene	228	12.432	12.450	(0.999)	25819	0.21072	14
78	Bis(2-Ethylhexyl)phthalate	149	12.509	12.515	(1.005)	52980	0.61345	41
* 79	Perylene-d12	264	14.610	14.616	(1.000)	1918302	20.0000	
81	Benzo(b)fluoranthene	252	13.963	13.987	(0.956)	18659	0.13789	9
83	Benzo(a)pyrene	252	14.492	14.527	(0.992)	16533	0.15704	10

Data File: A9262.D

Date: 23-DEC-2009 08:21

Client ID: MB 220-34526/1-A Instrument: msa.i

Sample Info: MB 220-34526/1-A Operator: S.Jonas



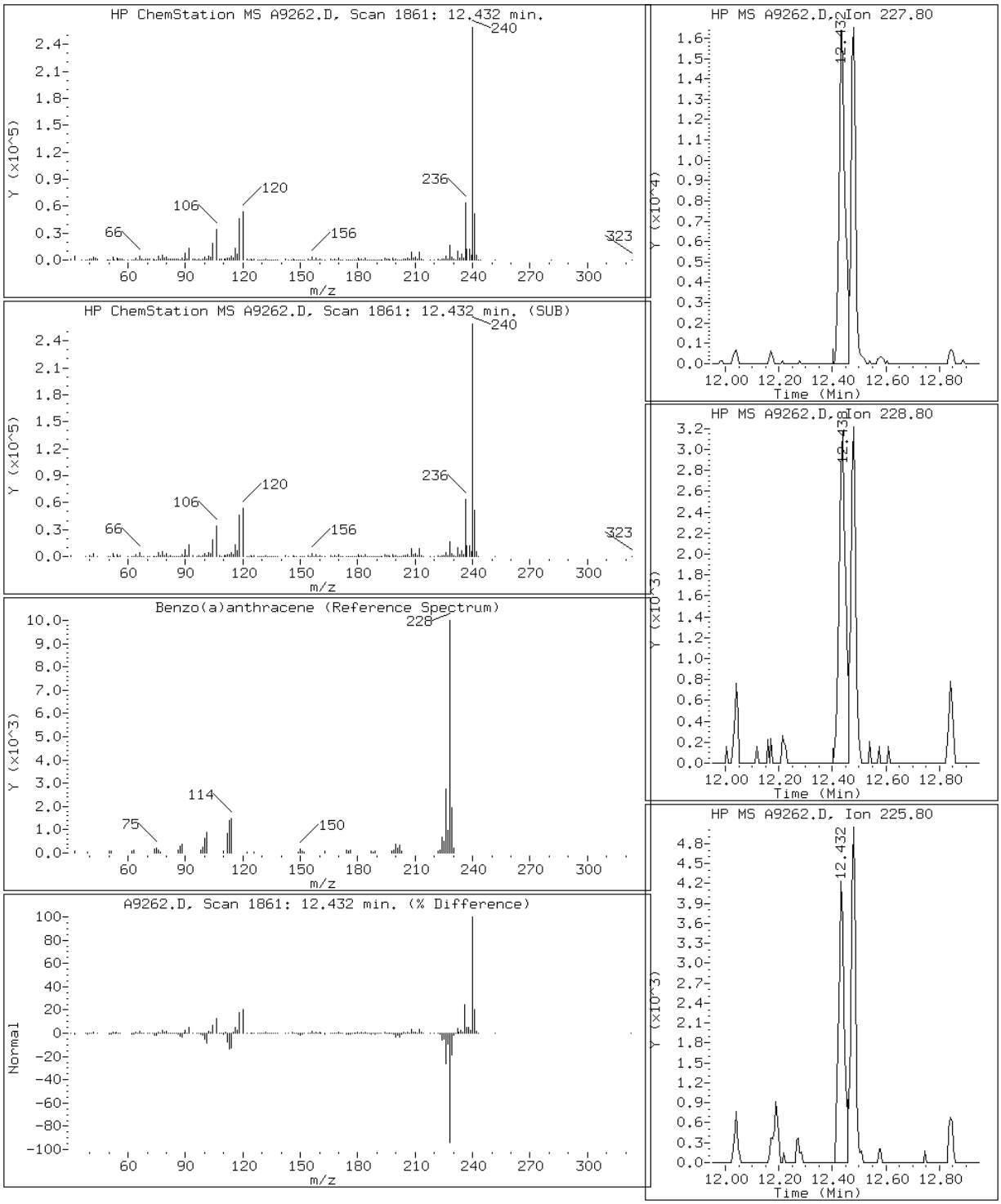
Data File: A9262.D

Date: 23-DEC-2009 08:21

Client ID: MB 220-34526/1-A Instrument: msa.i

Sample Info: MB 220-34526/1-A Operator: S.Jonas

76 Benzo(a)anthracene



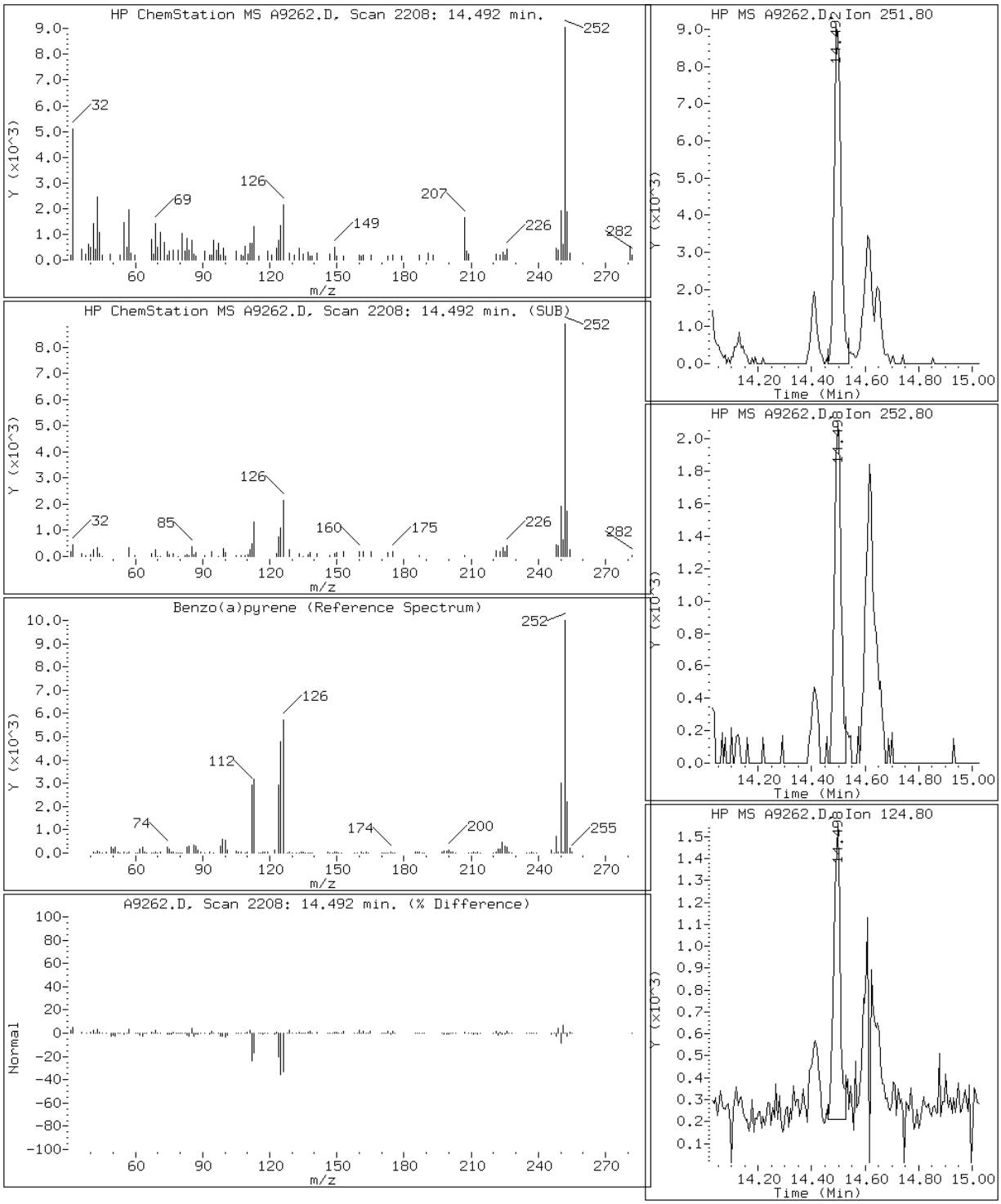
Data File: A9262.D

Date: 23-DEC-2009 08:21

Client ID: MB 220-34526/1-A Instrument: msa.i

Sample Info: MB 220-34526/1-A Operator: S.Jonas

83 Benzo(a)pyrene



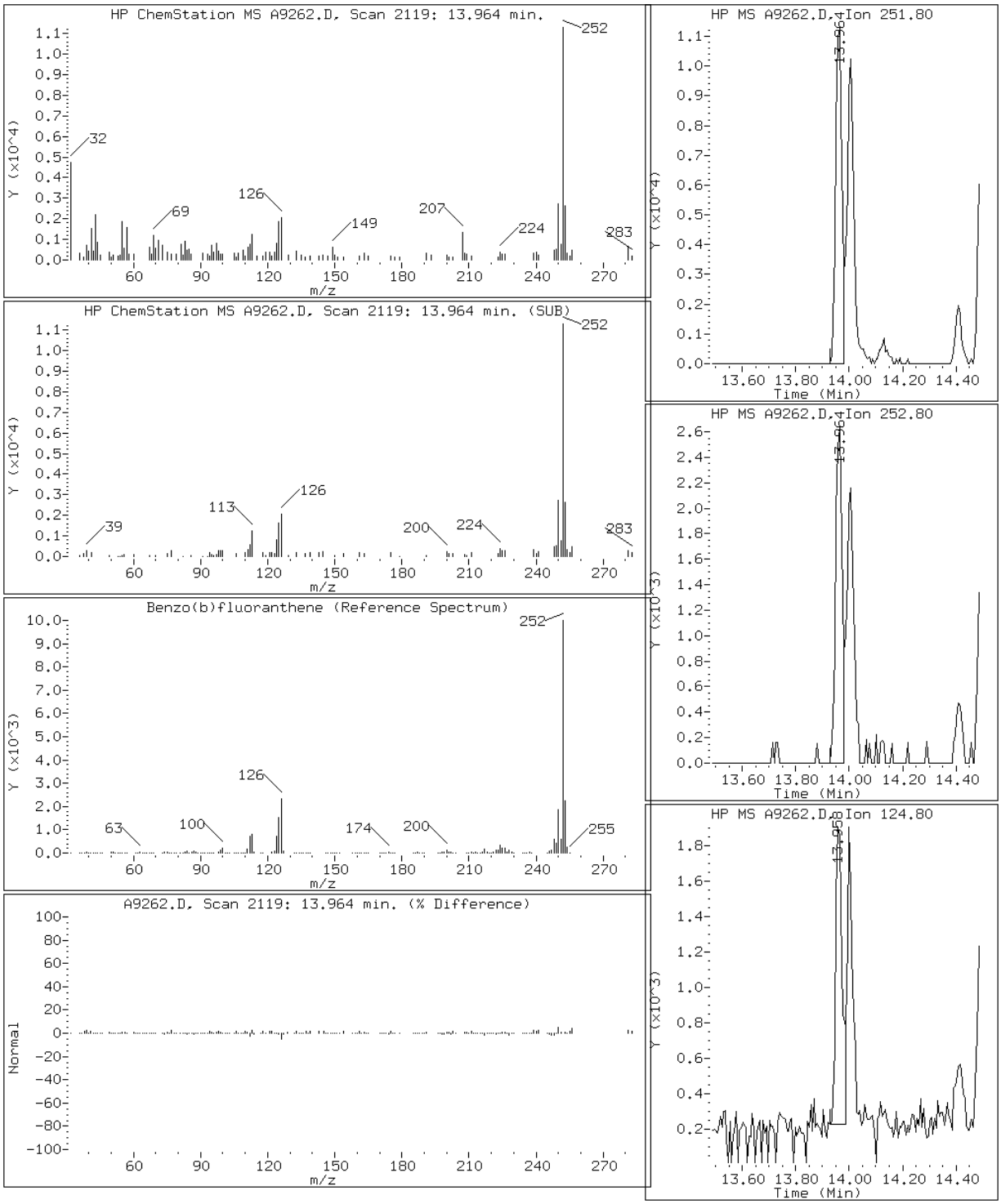
Data File: A9262.D

Date: 23-DEC-2009 08:21

Client ID: MB 220-34526/1-A Instrument: msa.i

Sample Info: MB 220-34526/1-A Operator: S.Jonas

81 Benzo(b)fluoranthene



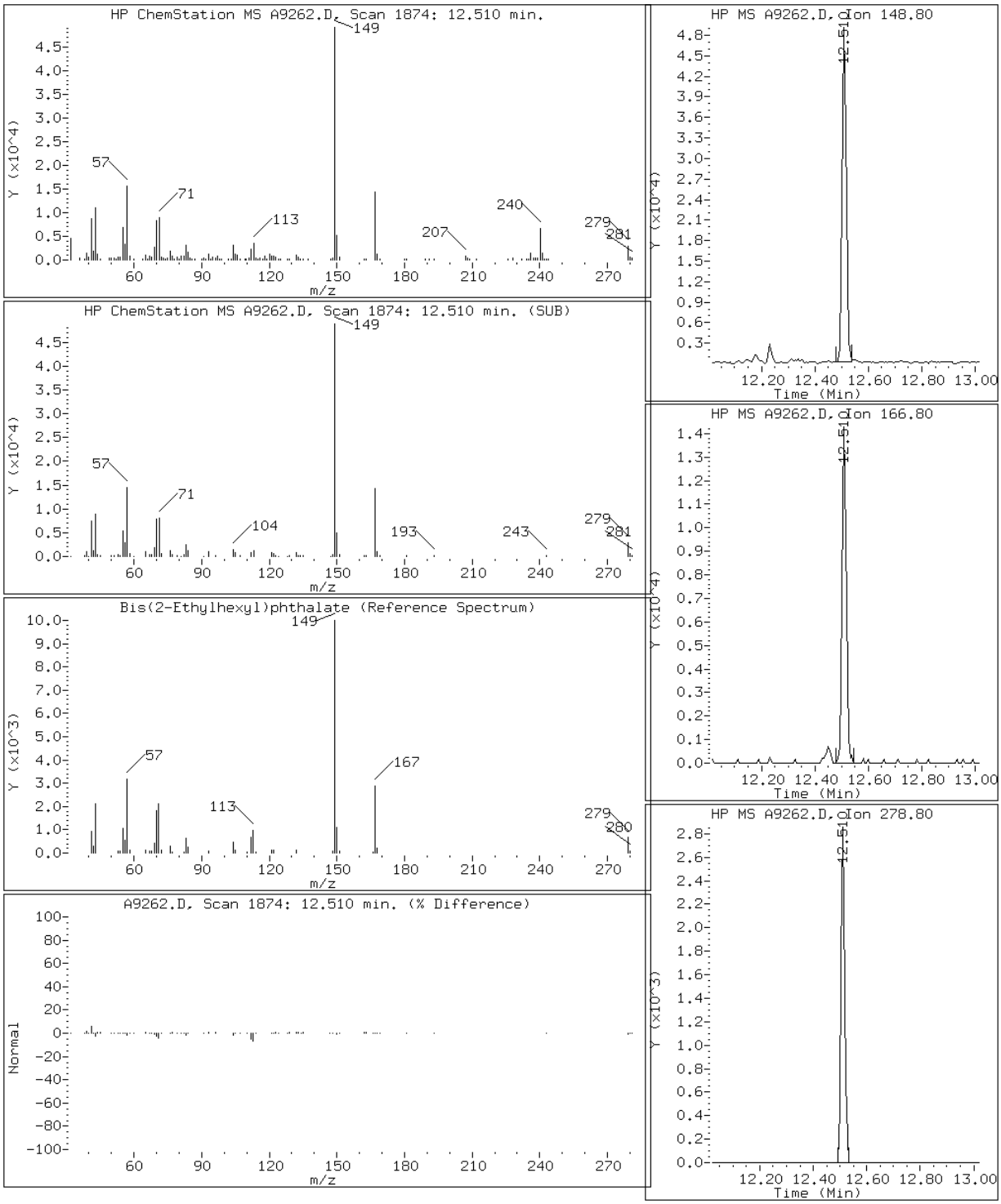
Data File: A9262.D

Date: 23-DEC-2009 08:21

Client ID: MB 220-34526/1-A Instrument: msa.i

Sample Info: MB 220-34526/1-A Operator: S.Jonas

78 Bis(2-Ethylhexyl)phthalate



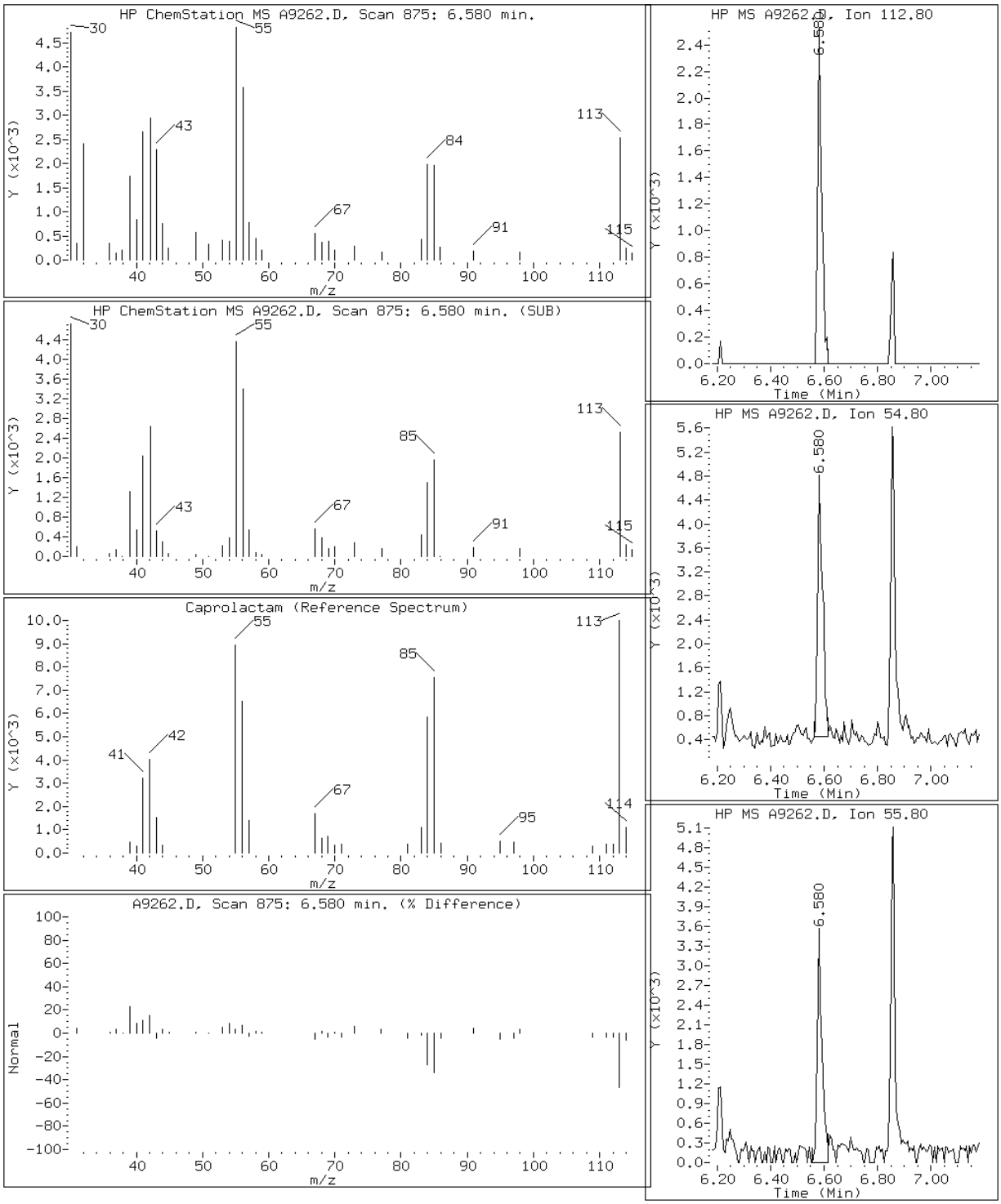
Data File: A9262.D

Date: 23-DEC-2009 08:21

Client ID: MB 220-34526/1-A Instrument: msa.i

Sample Info: MB 220-34526/1-A Operator: S.Jonas

129 Caprolactam



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34329/2-A

Matrix: Water | Lab File ID: Z14568.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 11:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	25.4		10	0.28
88-06-2	2,4,6-Trichlorophenol	24.7		4.0	0.37
120-83-2	2,4-Dichlorophenol	21.5		4.0	0.33
105-67-9	2,4-Dimethylphenol	20.4		4.0	0.33
121-14-2	2,4-Dinitrotoluene	30.7		4.0	0.40
51-28-5	2,4-Dinitrophenol	28.8		25	0.43
606-20-2	2,6-Dinitrotoluene	29.9		4.0	0.26
91-58-7	2-Chloronaphthalene	23.4		4.0	0.39
95-57-8	2-Chlorophenol	18.9		4.0	0.23
91-57-6	2-Methylnaphthalene	21.9		4.0	0.27
95-48-7	2-Methylphenol	18.4		4.0	0.24
88-74-4	2-Nitroaniline	27.0		4.0	0.34
88-75-5	2-Nitrophenol	21.6		4.0	0.27
91-94-1	3,3'-Dichlorobenzidine	20.7		4.0	0.36
99-09-2	3-Nitroaniline	28.7		4.0	0.23
534-52-1	4,6-Dinitro-2-methylphenol	30.0		25	1.9
101-55-3	4-Bromophenyl phenyl ether	28.0		4.0	0.44
59-50-7	4-Chloro-3-methylphenol	23.8		5.0	0.34
106-47-8	4-Chloroaniline	23.0		4.0	0.29
7005-72-3	4-Chlorophenyl phenyl ether	25.7		4.0	0.35
106-44-5	4-Methylphenol	33.8		4.0	0.29
100-01-6	4-Nitroaniline	26.3		4.0	0.20
100-02-7	4-Nitrophenol	12.3		10	1.4
83-32-9	Acenaphthene	24.2		4.0	0.31
208-96-8	Acenaphthylene	23.8		4.0	0.34
120-12-7	Anthracene	29.2		4.0	0.29
56-55-3	Benzo[a]anthracene	30.9		4.0	0.30
50-32-8	Benzo[a]pyrene	29.8		4.0	0.35
205-99-2	Benzo[b]fluoranthene	27.3		4.0	0.36
191-24-2	Benzo[g,h,i]perylene	25.1		4.0	0.36
207-08-9	Benzo[k]fluoranthene	30.7		4.0	0.40
111-91-1	Bis(2-chloroethoxy)methane	22.3		4.0	0.31
111-44-4	Bis(2-chloroethyl)ether	20.1		4.0	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	32.6		4.0	0.54

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34329/2-A

Matrix: Water | Lab File ID: Z14568.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 11:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-68-7	Butyl benzyl phthalate	30.6		4.0	0.35
86-74-8	Carbazole	30.1		4.0	0.33
218-01-9	Chrysene	30.9		4.0	0.25
84-74-2	Di-n-butyl phthalate	31.5		4.0	0.35
117-84-0	Di-n-octyl phthalate	29.0		4.0	0.38
53-70-3	Dibenz(a,h)anthracene	26.6		4.0	0.38
132-64-9	Dibenzofuran	24.4		4.0	0.43
84-66-2	Diethyl phthalate	29.9		4.0	0.43
131-11-3	Dimethyl phthalate	27.7		4.0	0.38
206-44-0	Fluoranthene	30.9		4.0	0.31
86-73-7	Fluorene	26.6		4.0	0.26
118-74-1	Hexachlorobenzene	28.2		4.0	0.33
87-68-3	Hexachlorobutadiene	18.2		4.0	0.20
77-47-4	Hexachlorocyclopentadiene	15.3		4.0	0.35
67-72-1	Hexachloroethane	16.5		4.0	0.37
193-39-5	Indeno[1,2,3-cd]pyrene	26.4		4.0	0.28
78-59-1	Isophorone	22.4		4.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	22.0		4.0	0.33
86-30-6	N-Nitrosodiphenylamine	28.9		4.0	0.33
91-20-3	Naphthalene	20.5		4.0	0.30
98-95-3	Nitrobenzene	21.1		4.0	0.28
87-86-5	Pentachlorophenol	25.3		25	0.31
85-01-8	Phenanthrene	29.1		4.0	0.28
108-95-2	Phenol	9.19		4.0	0.19
129-00-0	Pyrene	30.0		4.0	0.33
108-60-1	2,2'-oxybis[1-chloropropane]	20.3		4.0	0.25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34329/2-A

Matrix: Water | Lab File ID: Z14568.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/16/2009 10:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2009 11:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34488 | Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	70	36-120	
321-60-8	2-Fluorobiphenyl	54	39-120	
367-12-4	2-Fluorophenol	27	13-120	
4165-60-0	Nitrobenzene-d5	50	40-120	
4165-62-2	Phenol-d5	19	10-120	
1718-51-0	Terphenyl-d14	72	10-120	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\Z14568.D
Lab Smp Id: LCS 220-34329/2-A Client Smp ID: LCS 220-34329/2-A
Inj Date : 21-DEC-2009 11:20
Operator : S.Jonas Inst ID: msz.i
Smp Info : LCS 220-34329/2-A
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msz.i\Z0914559.b\MSZ-8270C.m
Meth Date : 21-Dec-2009 10:22 stephan Quant Type: ISTD
Cal Date : 21-DEC-2009 07:33 Cal File: Z14560.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula: Amt * DF * Uf * (1000*Vt)/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	InjectionVol
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.086	5.087	(1.000)	489380	20.0000	
$	2 2-Fluorophenol	112	3.633	3.634	(0.714)	593572	20.3814	20
$	3 Phenol-d5	99	4.727	4.734	(0.929)	553309	14.3424	14
	4 Pyridine	52	1.804	1.805	(0.355)	62319	11.5231	12
	5 N-Nitrosodimethylamine	42	1.792	1.793	(0.352)	48231	12.1765	12
	7 Phenol	94	4.739	4.751	(0.932)	386978	9.18521	9
	8 Aniline	93	4.733	4.734	(0.931)	842447	18.3660	18
	9 bis(2-Chloroethyl)ether	63	4.821	4.828	(0.948)	448480	20.0608	20
	10 2-Chlorophenol	128	4.857	4.863	(0.955)	661348	18.9299	19
	11 1,3-Dichlorobenzene	146	5.021	5.022	(0.987)	620373	16.5751	17
	12 1,4-Dichlorobenzene	146	5.104	5.104	(1.003)	639637	17.0133	17
	13 Benzyl alcohol	108	5.251	5.263	(1.032)	371830	18.2413	18
	14 1,2-Dichlorobenzene	146	5.263	5.269	(1.035)	620438	18.2369	18
	15 2,2'-oxybis(1-Chloropropane)	45	5.416	5.416	(1.065)	701082	20.2816	20
	16 2-Methylphenol	108	5.392	5.398	(1.060)	585793	18.3720	18
	17 Hexachloroethane	117	5.627	5.634	(1.106)	259114	16.4917	16
	18 N-Nitroso-di-n-propylamine	70	5.551	5.557	(1.091)	475031	22.0385	22
	19 4-Methylphenol	108	5.563	5.569	(1.094)	1094581	33.8259	34
*	20 Naphthalene-d8	136	6.457	6.457	(1.000)	2186574	20.0000	
$	21 Nitrobenzene-d5	82	5.686	5.693	(0.881)	911287	25.1547	25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
	22 Nitrobenzene	77	5.710	5.716	(0.884)	723424	21.1016	21
	23 Isophorone	82	5.974	5.981	(0.925)	1429811	22.3513	22
	24 2-Nitrophenol	139	6.051	6.057	(0.937)	411175	21.6020	22
	25 2,4-Dimethylphenol	122	6.127	6.134	(0.949)	650432	20.4149	20
	26 Benzoic Acid	122	6.186	6.281	(0.958)	30176	7.31339	7(H)
	27 Bis(2-Chloroethoxy)methane	93	6.221	6.228	(0.964)	947904	22.2897	22
	28 2,4-Dichlorophenol	162	6.316	6.322	(0.978)	639926	21.4731	21
	29 1,2,4-Trichlorobenzene	180	6.404	6.404	(0.992)	650975	19.4360	19
	30 Naphthalene	128	6.480	6.481	(1.004)	2267064	20.5168	21
	31 4-Chloroaniline	127	6.551	6.551	(1.015)	1049417	22.9838	23
	32 Hexachlorobutadiene	225	6.633	6.634	(1.027)	364941	18.1820	18
	33 4-Chloro-3-methylphenol	107	7.080	7.092	(1.097)	772164	23.8281	24
	34 2-Methylnaphthalene	142	7.221	7.228	(1.118)	1595047	21.9045	22
*	35 Acenaphthene-d10	164	8.339	8.339	(1.000)	1355036	20.0000	
	37 Hexachlorocyclopentadiene	237	7.410	7.410	(0.889)	242580	15.2905	15
	38 2,4,6-Trichlorophenol	196	7.533	7.539	(0.903)	578592	24.6838	25
	39 2,4,5-Trichlorophenol	196	7.568	7.575	(0.908)	601245	25.4211	25
$	40 2-Fluorobiphenyl	172	7.627	7.634	(0.915)	2224381	26.9111	27
	41 2-Chloronaphthalene	162	7.745	7.745	(0.929)	1600763	23.3505	23
	42 2-Nitroaniline	65	7.857	7.863	(0.942)	563140	26.9901	27
	43 Acenaphthylene	152	8.186	8.186	(0.982)	2915446	23.8483	24
	44 Dimethylphthalate	163	8.074	8.074	(0.968)	2105988	27.6881	28
	45 2,6-Dinitrotoluene	165	8.121	8.128	(0.974)	526397	29.8857	30
	46 Acenaphthene	153	8.374	8.375	(1.004)	1808643	24.1983	24
	47 3-Nitroaniline	138	8.298	8.304	(0.995)	604001	28.6675	29
	48 2,4-Dinitrophenol	184	8.404	8.410	(1.008)	173195	28.7552	29
	49 Dibenzofuran	168	8.557	8.563	(1.026)	2625986	24.3542	24
	50 2,4-Dinitrotoluene	165	8.551	8.551	(1.025)	678264	30.6978	31
	51 4-Nitrophenol	109	8.480	8.492	(1.017)	122263	12.3310	12
	52 Fluorene	166	8.921	8.928	(1.070)	2193892	26.5897	27
	53 4-Chlorophenyl-phenylether	204	8.933	8.933	(1.071)	1022700	25.7193	26
	54 Diethylphthalate	149	8.827	8.828	(1.059)	2347240	29.8885	30
	55 4-Nitroaniline	138	8.951	8.963	(1.073)	552292	26.3006	26
$	56 2,4,6-Tribromophenol	330	9.180	9.186	(1.101)	614573	52.2074	52
*	57 Phenanthrene-d10	188	9.921	9.922	(1.000)	2263500	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.986	8.992	(0.906)	345834	30.0262	30
	59 N-Nitrosodiphenylamine (1)	169	9.057	9.063	(0.913)	1762633	28.9072	29
	60 1,2-Diphenylhydrazine	77	9.098	9.104	(0.917)	2319353	27.8537	28
	61 4-Bromophenyl-phenylether	248	9.451	9.451	(0.953)	626871	28.0353	28
	62 Hexachlorobenzene	284	9.515	9.522	(0.959)	691624	28.2074	28
	63 Pentachlorophenol	266	9.727	9.728	(0.980)	335295	25.3458	25
	64 Phenanthrene	178	9.945	9.951	(1.002)	3393344	29.1170	29
	65 Carbazole	167	10.174	10.180	(1.025)	3383126	30.0523	30
	66 Anthracene	178	10.004	10.004	(1.008)	3472915	29.1802	29
	67 Di-n-butylphthalate	149	10.562	10.569	(1.065)	3895692	31.4958	31
	68 Fluoranthene	202	11.215	11.222	(1.130)	3907662	30.8838	31
*	70 Chrysene-d12	240	12.897	12.904	(1.000)	2016649	20.0000	
	72 Pyrene	202	11.456	11.463	(0.888)	4002503	30.0420	30
$	73 Terphenyl-d14	244	11.627	11.633	(0.901)	3039275	36.1348	36
	74 Butylbenzylphthalate	149	12.180	12.186	(0.944)	1596183	30.6401	31
	75 3,3'-Dichlorobenzidine	252	12.850	12.857	(0.996)	605020	20.7083	21
	76 Benzo(a)anthracene	228	12.880	12.886	(0.999)	3454453	30.8592	31
	77 Chrysene	228	12.933	12.939	(1.003)	3268109	30.9345	31
	78 Bis(2-Ethylhexyl)phthalate	149	12.933	12.933	(1.003)	1931377	32.6218	33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
* 79 Perylene-d12	264	15.250	15.257	(1.000)	1145414	20.0000	
80 Di-n-octylphthalate	149	13.927	13.933	(0.913)	2927860	28.9897	29
81 Benzo(b)fluoranthene	252	14.562	14.568	(0.955)	2583919	27.3081	27
82 Benzo(k)fluoranthene	252	14.609	14.615	(0.958)	2920077	30.6520	31
83 Benzo(a)pyrene	252	15.144	15.151	(0.993)	2032513	29.8430	30
84 Indeno(1,2,3-cd)pyrene	276	17.380	17.386	(1.140)	1169614	26.4025	26
85 Dibenzo(a,h)anthracene	278	17.438	17.445	(1.143)	1246517	26.5574	27
86 Benzo(g,h,i)perylene	276	17.932	17.945	(1.176)	1168167	25.1467	25

QC Flag Legend

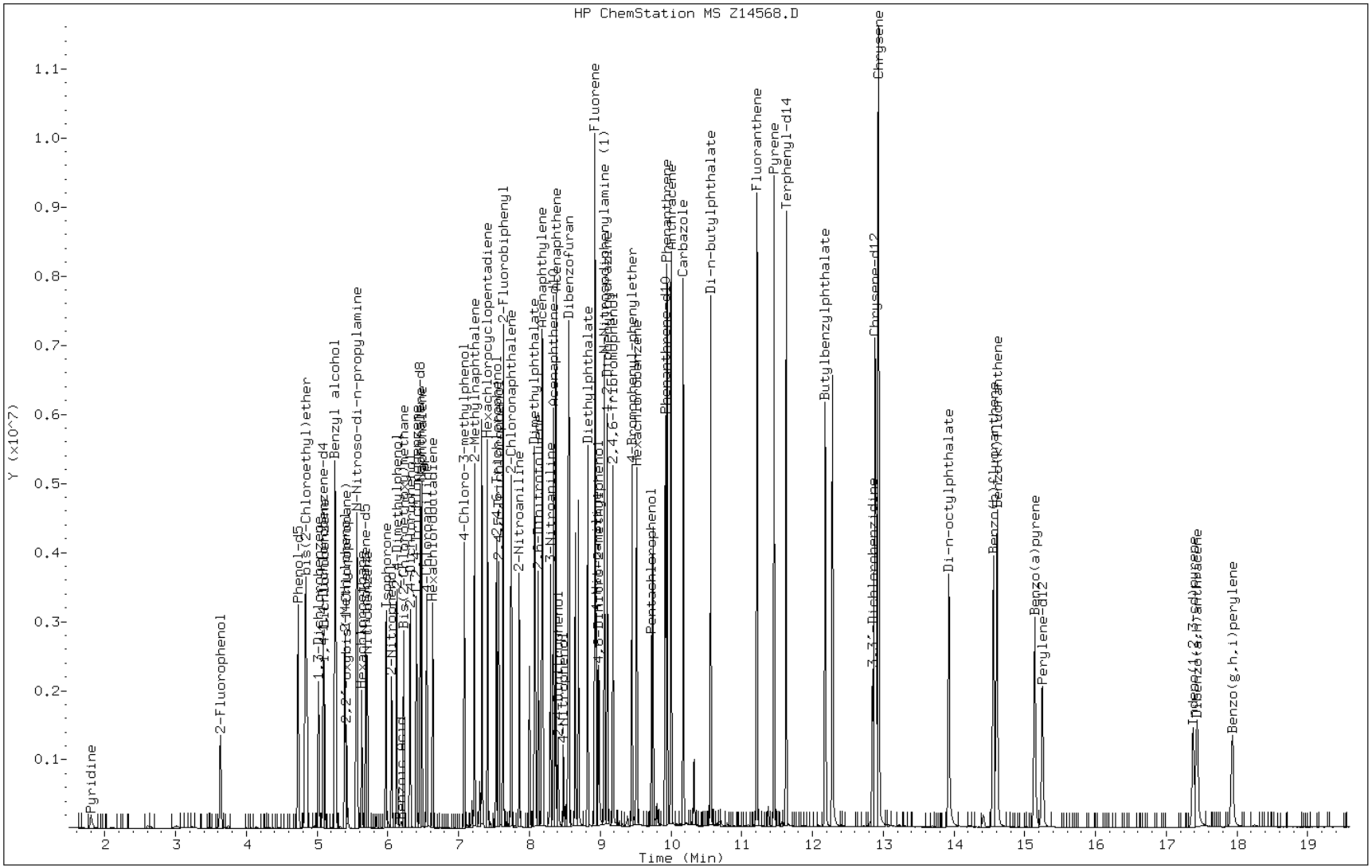
H - Operator selected an alternate compound hit.

Data File: Z14568.D

Date: 21-DEC-2009 11:20

Client ID: LCS 220-34329/2-A Instrument: msz.i

Sample Info: LCS 220-34329/2-A Operator: S.Jonas



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34351/2-A

Matrix: Solid | Lab File ID: C15359.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.0(g) | Date Analyzed: 12/21/2009 09:14

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34490 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	1940		1700	14
88-06-2	2,4,6-Trichlorophenol	1990		270	7.4
120-83-2	2,4-Dichlorophenol	1980		270	14
105-67-9	2,4-Dimethylphenol	1820		270	13
121-14-2	2,4-Dinitrotoluene	2120		270	22
51-28-5	2,4-Dinitrophenol	1540	J	1700	81
606-20-2	2,6-Dinitrotoluene	2250		270	7.9
91-58-7	2-Chloronaphthalene	1940		270	12
95-57-8	2-Chlorophenol	1930		270	16
91-57-6	2-Methylnaphthalene	2040		270	7.7
95-48-7	2-Methylphenol	1960		270	16
88-74-4	2-Nitroaniline	2080		670	16
88-75-5	2-Nitrophenol	2180		270	17
91-94-1	3,3'-Dichlorobenzidine	1420		330	56
99-09-2	3-Nitroaniline	1550		670	8.6
534-52-1	4,6-Dinitro-2-methylphenol	1670	J	1700	120
101-55-3	4-Bromophenyl phenyl ether	1970		270	17
59-50-7	4-Chloro-3-methylphenol	1990		270	11
106-47-8	4-Chloroaniline	717		270	44
7005-72-3	4-Chlorophenyl phenyl ether	1990		270	20
106-44-5	4-Methylphenol	3860		270	18
100-01-6	4-Nitroaniline	2140		270	21
100-02-7	4-Nitrophenol	2080		1700	20
83-32-9	Acenaphthene	1950		270	16
208-96-8	Acenaphthylene	1920		270	13
120-12-7	Anthracene	1960		270	11
56-55-3	Benzo[a]anthracene	1970		270	9.6
50-32-8	Benzo[a]pyrene	1920		270	7.3
205-99-2	Benzo[b]fluoranthene	1960		270	7.2
191-24-2	Benzo[g,h,i]perylene	1900		270	18
207-08-9	Benzo[k]fluoranthene	1840		270	24
111-91-1	Bis(2-chloroethoxy)methane	1950		270	13
111-44-4	Bis(2-chloroethyl)ether	1880		270	14
117-81-7	Bis(2-ethylhexyl) phthalate	2070		270	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34351/2-A

Matrix: Solid | Lab File ID: C15359.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.0(g) | Date Analyzed: 12/21/2009 09:14

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34490 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-68-7	Butyl benzyl phthalate	2040		270	15
86-74-8	Carbazole	2020		270	15
218-01-9	Chrysene	1860		270	20
84-74-2	Di-n-butyl phthalate	2030		270	39
117-84-0	Di-n-octyl phthalate	2250		270	15
53-70-3	Dibenz(a,h)anthracene	2030		270	21
132-64-9	Dibenzofuran	1950		270	19
84-66-2	Diethyl phthalate	1730		270	27
131-11-3	Dimethyl phthalate	1960		270	16
206-44-0	Fluoranthene	2020		270	13
86-73-7	Fluorene	2010		270	16
118-74-1	Hexachlorobenzene	1990		270	19
87-68-3	Hexachlorobutadiene	1910		270	21
77-47-4	Hexachlorocyclopentadiene	1850		670	130
67-72-1	Hexachloroethane	1830		270	15
193-39-5	Indeno[1,2,3-cd]pyrene	2060		270	18
78-59-1	Isophorone	1940		270	15
621-64-7	N-Nitrosodi-n-propylamine	1920		270	18
86-30-6	N-Nitrosodiphenylamine	1900		270	15
91-20-3	Naphthalene	1960		270	14
98-95-3	Nitrobenzene	1970		270	17
87-86-5	Pentachlorophenol	1910		670	160
85-01-8	Phenanthrene	1980		270	13
108-95-2	Phenol	1870		270	18
129-00-0	Pyrene	1980		270	13
108-60-1	2,2'-oxybis[1-chloropropane]	1870		270	14

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34351/2-A

Matrix: Solid | Lab File ID: C15359.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.0(g) | Date Analyzed: 12/21/2009 09:14

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34490 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	76	37-120	
321-60-8	2-Fluorobiphenyl	69	41-120	
367-12-4	2-Fluorophenol	70	34-120	
4165-60-0	Nitrobenzene-d5	72	38-120	
4165-62-2	Phenol-d5	69	36-120	
1718-51-0	Terphenyl-d14	71	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915356.b\C15359.D
Lab Smp Id: LCS 220-34351/2-A Client Smp ID: LCS 220-34351/2-A
Inj Date : 21-DEC-2009 09:14
Operator : S.Jonas Inst ID: msc.i
Smp Info : LCS 220-34351/2-A
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915356.b\MSC-8270C.m
Meth Date : 21-Dec-2009 08:37 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.000	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.045	5.051	(1.000)	296957	20.0000	
$ 2	2-Fluorophenol	112	3.585	3.579	(0.711)	984632	52.2434	3500
$ 3	Phenol-d5	99	4.701	4.701	(0.932)	1364367	51.7294	3400
4	Pyridine	52	1.721	1.697	(0.341)	102188	22.7065	1500
5	N-Nitrosodimethylamine	42	1.698	1.674	(0.337)	91035	27.9213	1900
7	Phenol	94	4.713	4.713	(0.934)	836605	28.0542	1900
8	Aniline	93	4.689	4.695	(0.929)	503506	15.3688	1000
9	bis(2-Chloroethyl)ether	63	4.790	4.790	(0.949)	441899	28.1489	1900
10	2-Chlorophenol	128	4.820	4.819	(0.955)	651781	28.9584	1900
11	1,3-Dichlorobenzene	146	4.986	4.986	(0.988)	681883	27.1055	1800
12	1,4-Dichlorobenzene	146	5.069	5.069	(1.005)	711840	27.7853	1900
13	Benzyl alcohol	108	5.217	5.223	(1.034)	440127	28.9934	1900
14	1,2-Dichlorobenzene	146	5.229	5.229	(1.036)	678273	27.7162	1800
15	2,2'-oxybis(1-Chloropropane)	45	5.377	5.377	(1.066)	820057	28.0086	1900
16	2-Methylphenol	108	5.360	5.365	(1.062)	640708	29.4084	2000
17	Hexachloroethane	117	5.591	5.597	(1.108)	282313	27.3780	1800
18	N-Nitroso-di-n-propylamine	70	5.514	5.520	(1.093)	523961	28.8650	1900
19	4-Methylphenol	108	5.532	5.532	(1.096)	1337935	57.9303	3900(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
*	20 Naphthalene-d8	136	6.422	6.428	(1.000)	1449188	20.0000	
$	21 Nitrobenzene-d5	82	5.650	5.656	(0.880)	965605	35.9966	2400
	22 Nitrobenzene	77	5.674	5.674	(0.884)	786650	29.5240	2000
	23 Isophorone	82	5.941	5.941	(0.925)	1453555	29.0397	1900
	24 2-Nitrophenol	139	6.018	6.024	(0.937)	406876	32.6884	2200
	25 2,4-Dimethylphenol	122	6.096	6.101	(0.949)	602917	27.2813	1800
	26 Benzoic Acid	122	6.179	6.226	(0.962)	109307	11.7638	780
	27 Bis(2-Chloroethoxy)methane	93	6.191	6.196	(0.964)	875885	29.2960	2000
	28 2,4-Dichlorophenol	162	6.280	6.285	(0.978)	645537	29.7127	2000
	29 1,2,4-Trichlorobenzene	180	6.369	6.374	(0.992)	677629	28.9236	1900
	30 Naphthalene	128	6.446	6.446	(1.004)	2308992	29.4149	2000
	31 4-Chloroaniline	127	6.517	6.517	(1.015)	347957	10.7514	720
	32 Hexachlorobutadiene	225	6.600	6.606	(1.028)	417279	28.7183	1900
	33 4-Chloro-3-methylphenol	107	7.051	7.057	(1.098)	751766	29.9131	2000
	34 2-Methylnaphthalene	142	7.194	7.193	(1.120)	1643314	30.6598	2000
*	35 Acenaphthene-d10	164	8.309	8.309	(1.000)	1082202	20.0000	
	37 Hexachlorocyclopentadiene	237	7.372	7.377	(0.887)	460183	27.7237	1800
	38 2,4,6-Trichlorophenol	196	7.502	7.508	(0.903)	537750	29.8558	2000
	39 2,4,5-Trichlorophenol	196	7.538	7.544	(0.907)	565097	29.0331	1900
$	40 2-Fluorobiphenyl	172	7.597	7.597	(0.914)	2248355	34.4179	2300
	41 2-Chloronaphthalene	162	7.710	7.716	(0.928)	1648514	29.1452	1900
	42 2-Nitroaniline	65	7.823	7.829	(0.941)	559084	31.2343	2100
	43 Acenaphthylene	152	8.155	8.155	(0.981)	2762480	28.7718	1900
	44 Dimethylphthalate	163	8.036	8.042	(0.967)	2015604	29.3838	2000
	45 2,6-Dinitrotoluene	165	8.090	8.096	(0.974)	496656	33.7120	2200
	46 Acenaphthene	153	8.339	8.345	(1.004)	1707576	29.2948	2000
	47 3-Nitroaniline	138	8.262	8.268	(0.994)	412332	23.3122	1600
	48 2,4-Dinitrophenol	184	8.375	8.381	(1.008)	109412	23.0456	1500
	49 Dibenzofuran	168	8.523	8.529	(1.026)	2511292	29.2675	2000
	50 2,4-Dinitrotoluene	165	8.517	8.523	(1.025)	665029	31.8425	2100
	51 4-Nitrophenol	109	8.458	8.464	(1.018)	292792	31.2311	2100
	52 Fluorene	166	8.891	8.897	(1.070)	2112797	30.0809	2000
	53 4-Chlorophenyl-phenylether	204	8.897	8.903	(1.071)	982953	29.7773	2000
	54 Diethylphthalate	149	8.790	8.796	(1.058)	2093953	26.0107	1700
	55 4-Nitroaniline	138	8.915	8.927	(1.073)	620757	32.0353	2100
$	56 2,4,6-Tribromophenol	330	9.152	9.152	(1.101)	561138	56.8899	3800
*	57 Phenanthrene-d10	188	9.888	9.894	(1.000)	1959124	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.950	8.956	(0.905)	295560	25.0751	1700
	59 N-Nitrosodiphenylamine (1)	169	9.028	9.027	(0.913)	1594635	28.5649	1900
	60 1,2-Diphenylhydrazine	77	9.069	9.069	(0.917)	2308116	28.6597	1900
	61 4-Bromophenyl-phenylether	248	9.419	9.419	(0.953)	608086	29.5756	2000
	62 Hexachlorobenzene	284	9.485	9.490	(0.959)	661594	29.9027	2000
	63 Pentachlorophenol	266	9.692	9.698	(0.980)	383577	28.6648	1900
	64 Phenanthrene	178	9.912	9.918	(1.002)	3275876	29.6464	2000
	65 Carbazole	167	10.143	10.149	(1.026)	3333726	30.3318	2000
	66 Anthracene	178	9.971	9.971	(1.008)	3367639	29.3449	2000
	67 Di-n-butylphthalate	149	10.529	10.535	(1.065)	4027901	30.4142	2000
	68 Fluoranthene	202	11.182	11.188	(1.131)	3856870	30.2683	2000
*	70 Chrysene-d12	240	12.856	12.862	(1.000)	2256899	20.0000	
	72 Pyrene	202	11.426	11.431	(0.889)	3988793	29.6620	2000
$	73 Terphenyl-d14	244	11.598	11.603	(0.902)	3340045	35.5697	2400
	74 Butylbenzylphthalate	149	12.144	12.149	(0.945)	1907529	30.6307	2000
	75 3,3'-Dichlorobenzidine	252	12.808	12.814	(0.996)	852408	21.3464	1400
	76 Benzo(a)anthracene	228	12.844	12.850	(0.999)	3773497	29.5630	2000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
77	Chrysene	228	12.892	12.903	(1.003)	3434606	27.8544	1900
78	Bis(2-Ethylhexyl)phthalate	149	12.892	12.897	(1.003)	2640103	31.0776	2100
* 79	Perylene-d12	264	15.200	15.206	(1.000)	1718713	20.0000	
80	Di-n-octylphthalate	149	13.883	13.888	(0.913)	4577917	33.6908	2200
81	Benzo(b)fluoranthene	252	14.512	14.524	(0.955)	3490174	29.3466	2000
82	Benzo(k)fluoranthene	252	14.565	14.571	(0.958)	3572454	27.5911	1800
83	Benzo(a)pyrene	252	15.094	15.105	(0.993)	2923712	28.8499	1900
84	Indeno(1,2,3-cd)pyrene	276	17.331	17.349	(1.140)	2748586	30.9046	2100
85	Dibenzo(a,h)anthracene	278	17.390	17.402	(1.144)	2870678	30.3811	2000
86	Benzo(g,h,i)perylene	276	17.889	17.907	(1.177)	2761630	28.5303	1900

QC Flag Legend

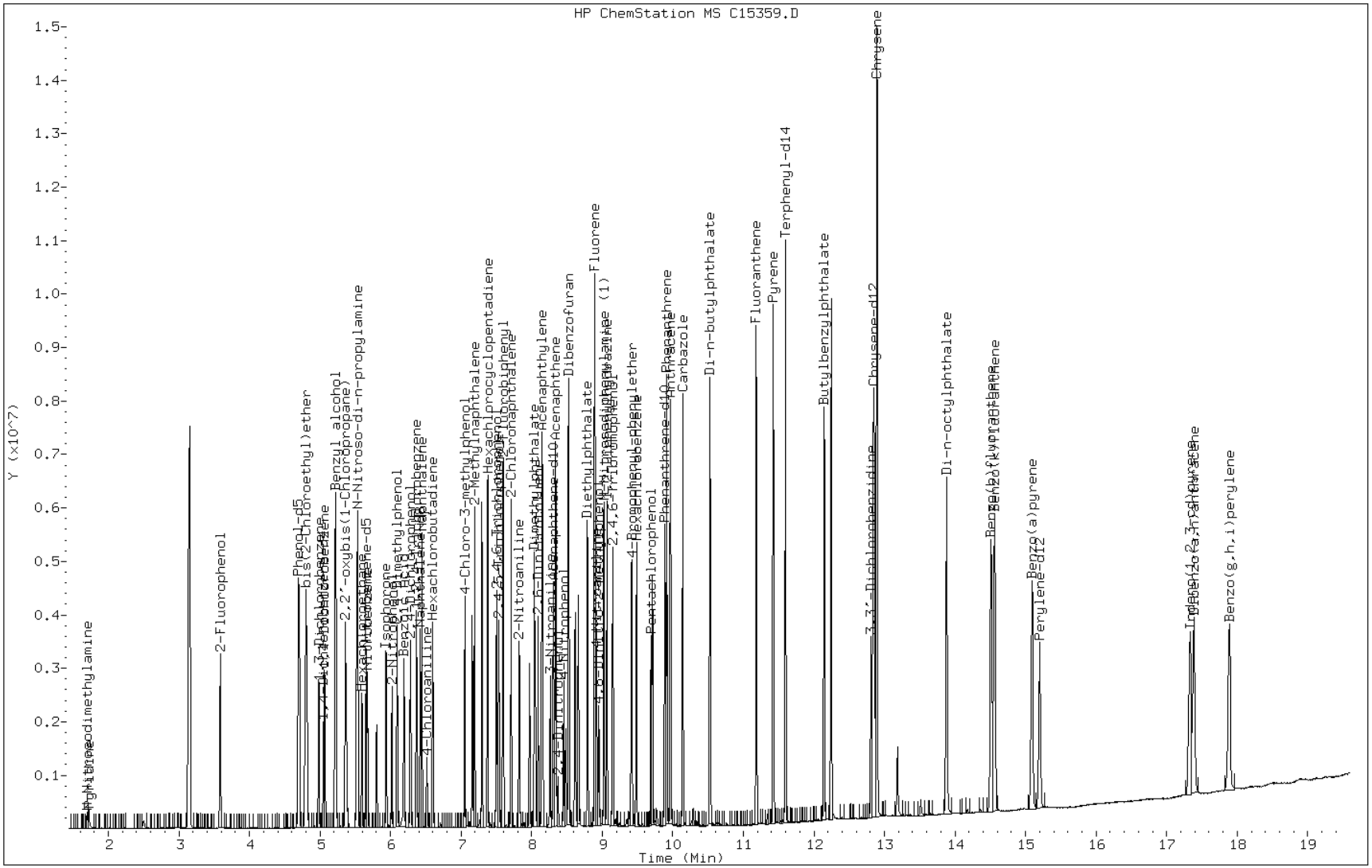
R - Spike/Surrogate failed recovery limits.

Data File: C15359.D

Date: 21-DEC-2009 09:14

Client ID: LCS 220-34351/2-A Instrument: msc.i

Sample Info: LCS 220-34351/2-A Operator: S.Jonas



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34355/2-A

Matrix: Solid | Lab File ID: C15387.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.0(g) | Date Analyzed: 12/22/2009 09:59

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	270	U	270	18
95-95-4	2,4,5-Trichlorophenol	1880		1700	14
88-06-2	2,4,6-Trichlorophenol	1980		270	7.4
120-83-2	2,4-Dichlorophenol	2000		270	14
105-67-9	2,4-Dimethylphenol	1790		270	13
121-14-2	2,4-Dinitrotoluene	2060		270	22
51-28-5	2,4-Dinitrophenol	1430	J	1700	81
606-20-2	2,6-Dinitrotoluene	2210		270	7.9
91-58-7	2-Chloronaphthalene	1940		270	12
95-57-8	2-Chlorophenol	1970		270	16
91-57-6	2-Methylnaphthalene	2070		270	7.7
95-48-7	2-Methylphenol	1960		270	16
88-74-4	2-Nitroaniline	2040		670	16
88-75-5	2-Nitrophenol	2190		270	17
91-94-1	3,3'-Dichlorobenzidine	1330		330	56
99-09-2	3-Nitroaniline	1320		670	8.6
534-52-1	4,6-Dinitro-2-methylphenol	1430	J	1700	120
101-55-3	4-Bromophenyl phenyl ether	1980		270	17
59-50-7	4-Chloro-3-methylphenol	1990		270	11
106-47-8	4-Chloroaniline	686		270	44
7005-72-3	4-Chlorophenyl phenyl ether	2000		270	20
106-44-5	4-Methylphenol	3940		270	18
100-01-6	4-Nitroaniline	1940		270	21
100-02-7	4-Nitrophenol	2070		1700	20
83-32-9	Acenaphthene	1950		270	16
208-96-8	Acenaphthylene	1910		270	13
98-86-2	Acetophenone	270	U	270	14
120-12-7	Anthracene	1920		270	11
1912-24-9	Atrazine	330	U	330	17
100-52-7	Benzaldehyde	270	U	270	45
56-55-3	Benzo[a]anthracene	1970		270	9.6
50-32-8	Benzo[a]pyrene	1960		270	7.3
205-99-2	Benzo[b]fluoranthene	1970		270	7.2
191-24-2	Benzo[g,h,i]perylene	1980		270	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34355/2-A

Matrix: Solid | Lab File ID: C15387.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.0(g) | Date Analyzed: 12/22/2009 09:59

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	1950		270	24
111-91-1	Bis(2-chloroethoxy)methane	1940		270	13
111-44-4	Bis(2-chloroethyl)ether	1910		270	14
117-81-7	Bis(2-ethylhexyl) phthalate	2040		270	26
85-68-7	Butyl benzyl phthalate	1970		270	15
105-60-2	Caprolactam	270	U	270	21
86-74-8	Carbazole	1970		270	15
218-01-9	Chrysene	1860		270	20
84-74-2	Di-n-butyl phthalate	1970		270	39
117-84-0	Di-n-octyl phthalate	2160		270	15
53-70-3	Dibenz(a,h)anthracene	2120		270	21
132-64-9	Dibenzofuran	1960		270	19
84-66-2	Diethyl phthalate	1690		270	27
131-11-3	Dimethyl phthalate	1900		270	16
206-44-0	Fluoranthene	1990		270	13
86-73-7	Fluorene	1960		270	16
118-74-1	Hexachlorobenzene	2010		270	19
87-68-3	Hexachlorobutadiene	2010		270	21
77-47-4	Hexachlorocyclopentadiene	1960		670	130
67-72-1	Hexachloroethane	1890		270	15
193-39-5	Indeno[1,2,3-cd]pyrene	2140		270	18
78-59-1	Isophorone	1920		270	15
621-64-7	N-Nitrosodi-n-propylamine	1980		270	18
86-30-6	N-Nitrosodiphenylamine	1900		270	15
91-20-3	Naphthalene	1960		270	14
98-95-3	Nitrobenzene	1980		270	17
87-86-5	Pentachlorophenol	1760		670	160
85-01-8	Phenanthrene	1940		270	13
108-95-2	Phenol	1870		270	18
129-00-0	Pyrene	1960		270	13
108-60-1	2,2'-oxybis[1-chloropropane]	1840		270	14

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34355/2-A

Matrix: Solid | Lab File ID: C15387.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/16/2009 16:43

Sample wt/vol: 15.0(g) | Date Analyzed: 12/22/2009 09:59

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	73	37-120	
321-60-8	2-Fluorobiphenyl	68	41-120	
367-12-4	2-Fluorophenol	70	34-120	
4165-60-0	Nitrobenzene-d5	72	38-120	
4165-62-2	Phenol-d5	70	36-120	
1718-51-0	Terphenyl-d14	69	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15387.D
Lab Smp Id: LCS 220-34355/2-A Client Smp ID: LCS 220-34355/2-A
Inj Date : 22-DEC-2009 09:59
Operator : S.Jonas Inst ID: msc.i
Smp Info : LCS 220-34355/2-A
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.000	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.021	5.021	(1.000)	252086	20.0000	
$ 2	2-Fluorophenol	112	3.561	3.549	(0.709)	839934	52.4985	3500
$ 3	Phenol-d5	99	4.671	4.671	(0.930)	1174298	52.4481	3500
4	Pyridine	52	1.704	1.674	(0.339)	85047	22.2615	1500
5	N-Nitrosodimethylamine	42	1.680	1.656	(0.335)	79034	28.5553	1900
7	Phenol	94	4.689	4.689	(0.934)	709218	28.0157	1900
8	Aniline	93	4.665	4.665	(0.929)	375036	13.4851	900
9	bis(2-Chloroethyl)ether	63	4.760	4.760	(0.948)	382108	28.6727	1900
10	2-Chlorophenol	128	4.796	4.790	(0.955)	565651	29.6051	2000
11	1,3-Dichlorobenzene	146	4.956	4.956	(0.987)	600020	28.0969	1900
12	1,4-Dichlorobenzene	146	5.039	5.039	(1.004)	616028	28.3255	1900
13	Benzyl alcohol	108	5.194	5.193	(1.034)	382510	29.6831	2000
14	1,2-Dichlorobenzene	146	5.205	5.205	(1.037)	593331	28.5609	1900
15	2,2'-oxybis(1-Chloropropane)	45	5.354	5.354	(1.066)	687465	27.6594	1800
16	2-Methylphenol	108	5.336	5.336	(1.063)	542903	29.3547	2000
17	Hexachloroethane	117	5.567	5.567	(1.109)	247944	28.3249	1900
18	N-Nitroso-di-n-propylamine	70	5.490	5.490	(1.093)	456570	29.6296	2000
19	4-Methylphenol	108	5.508	5.502	(1.097)	1157303	59.0287	3900(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	20 Naphthalene-d8	136	6.392	6.398	(1.000)	1256179	20.0000	
$	21 Nitrobenzene-d5	82	5.627	5.627	(0.880)	832112	35.7863	2400
	22 Nitrobenzene	77	5.645	5.650	(0.883)	685862	29.6964	2000
	23 Isophorone	82	5.912	5.917	(0.925)	1251395	28.8422	1900
	24 2-Nitrophenol	139	5.995	5.995	(0.938)	355186	32.9200	2200
	25 2,4-Dimethylphenol	122	6.066	6.072	(0.949)	515485	26.9089	1800
	26 Benzoic Acid	122	6.161	6.202	(0.964)	137406	14.9003	990
	27 Bis(2-Chloroethoxy)methane	93	6.167	6.167	(0.965)	752775	29.0469	1900
	28 2,4-Dichlorophenol	162	6.256	6.256	(0.979)	565801	30.0441	2000
	29 1,2,4-Trichlorobenzene	180	6.339	6.345	(0.992)	601390	29.6135	2000
	30 Naphthalene	128	6.416	6.416	(1.004)	2003083	29.4386	2000
	31 4-Chloroaniline	127	6.487	6.493	(1.015)	288632	10.2886	690
	32 Hexachlorobutadiene	225	6.571	6.576	(1.028)	378854	30.0800	2000
	33 4-Chloro-3-methylphenol	107	7.022	7.027	(1.098)	649784	29.8278	2000
	34 2-Methylnaphthalene	142	7.164	7.164	(1.121)	1442067	31.0390	2100
*	35 Acenaphthene-d10	164	8.274	8.274	(1.000)	951492	20.0000	
	37 Hexachlorocyclopentadiene	237	7.348	7.348	(0.888)	428257	29.3446	2000
	38 2,4,6-Trichlorophenol	196	7.473	7.478	(0.903)	471476	29.7722	2000
	39 2,4,5-Trichlorophenol	196	7.508	7.514	(0.907)	482388	28.1884	1900
$	40 2-Fluorobiphenyl	172	7.568	7.567	(0.915)	1964525	34.2042	2300
	41 2-Chloronaphthalene	162	7.680	7.680	(0.928)	1449026	29.1376	1900
	42 2-Nitroaniline	65	7.793	7.799	(0.942)	481284	30.5815	2000
	43 Acenaphthylene	152	8.120	8.119	(0.981)	2412263	28.5756	1900
	44 Dimethylphthalate	163	8.007	8.007	(0.968)	1721508	28.5440	1900
	45 2,6-Dinitrotoluene	165	8.060	8.060	(0.974)	429248	33.1390	2200
	46 Acenaphthene	153	8.310	8.309	(1.004)	1495572	29.1824	1900
	47 3-Nitroaniline	138	8.232	8.238	(0.995)	308801	19.8572	1300
	48 2,4-Dinitrophenol	184	8.345	8.345	(1.009)	83058	21.4052	1400
	49 Dibenzofuran	168	8.494	8.493	(1.027)	2217254	29.3905	2000
	50 2,4-Dinitrotoluene	165	8.488	8.487	(1.026)	568098	30.9381	2100
	51 4-Nitrophenol	109	8.422	8.428	(1.018)	256094	31.0692	2100
	52 Fluorene	166	8.856	8.861	(1.070)	1819190	29.4588	2000
	53 4-Chlorophenyl-phenylether	204	8.867	8.867	(1.072)	872657	30.0677	2000
	54 Diethylphthalate	149	8.761	8.766	(1.059)	1803831	25.3679	1700
	55 4-Nitroaniline	138	8.885	8.891	(1.074)	496184	29.1241	1900(M)
$	56 2,4,6-Tribromophenol	330	9.117	9.117	(1.102)	472136	54.4422	3600
*	57 Phenanthrene-d10	188	9.853	9.852	(1.000)	1699067	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.921	8.921	(0.905)	219619	21.4841	1400
	59 N-Nitrosodiphenylamine (1)	169	8.992	8.998	(0.913)	1378172	28.4660	1900
	60 1,2-Diphenylhydrazine	77	9.034	9.039	(0.917)	1980891	28.3613	1900
	61 4-Bromophenyl-phenylether	248	9.384	9.390	(0.952)	529227	29.6798	2000
	62 Hexachlorobenzene	284	9.449	9.455	(0.959)	577282	30.0856	2000
	63 Pentachlorophenol	266	9.657	9.663	(0.980)	306812	26.4375	1800
	64 Phenanthrene	178	9.882	9.882	(1.003)	2794107	29.1568	1900
	65 Carbazole	167	10.108	10.108	(1.026)	2809839	29.4782	2000
	66 Anthracene	178	9.936	9.936	(1.008)	2859157	28.7274	1900
	67 Di-n-butylphthalate	149	10.494	10.499	(1.065)	3385729	29.4782	2000
	68 Fluoranthene	202	11.147	11.146	(1.131)	3292819	29.7970	2000
*	70 Chrysene-d12	240	12.809	12.808	(1.000)	1926167	20.0000	
	71 Benzidine	184	9.740	9.746	(0.760)	76285	29.2438	1900
	72 Pyrene	202	11.390	11.390	(0.889)	3368047	29.3465	2000
$	73 Terphenyl-d14	244	11.562	11.562	(0.903)	2772133	34.5908	2300
	74 Butylbenzylphthalate	149	12.108	12.108	(0.945)	1567459	29.4917	2000
	75 3,3'-Dichlorobenzidine	252	12.761	12.767	(0.996)	682074	20.0137	1300

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
76	Benzo(a)anthracene	228	12.791	12.796	(0.999)	3217706	29.5372	2000
77	Chrysene	228	12.844	12.850	(1.003)	2928266	27.8257	1900
78	Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	2214369	30.5418	2000
* 79	Perylene-d12	264	15.123	15.129	(1.000)	1430787	20.0000	
80	Di-n-octylphthalate	149	13.823	13.829	(0.914)	3671345	32.4562	2200
81	Benzo(b)fluoranthene	252	14.447	14.452	(0.955)	2928547	29.5795	2000
82	Benzo(k)fluoranthene	252	14.494	14.500	(0.958)	3145058	29.1783	1900
83	Benzo(a)pyrene	252	15.022	15.028	(0.993)	2486201	29.4696	2000
84	Indeno(1,2,3-cd)pyrene	276	17.236	17.242	(1.140)	2375511	32.0848	2100
85	Dibenzo(a,h)anthracene	278	17.296	17.301	(1.144)	2497247	31.7475	2100
86	Benzo(g,h,i)perylene	276	17.788	17.794	(1.176)	2393326	29.7010	2000

QC Flag Legend

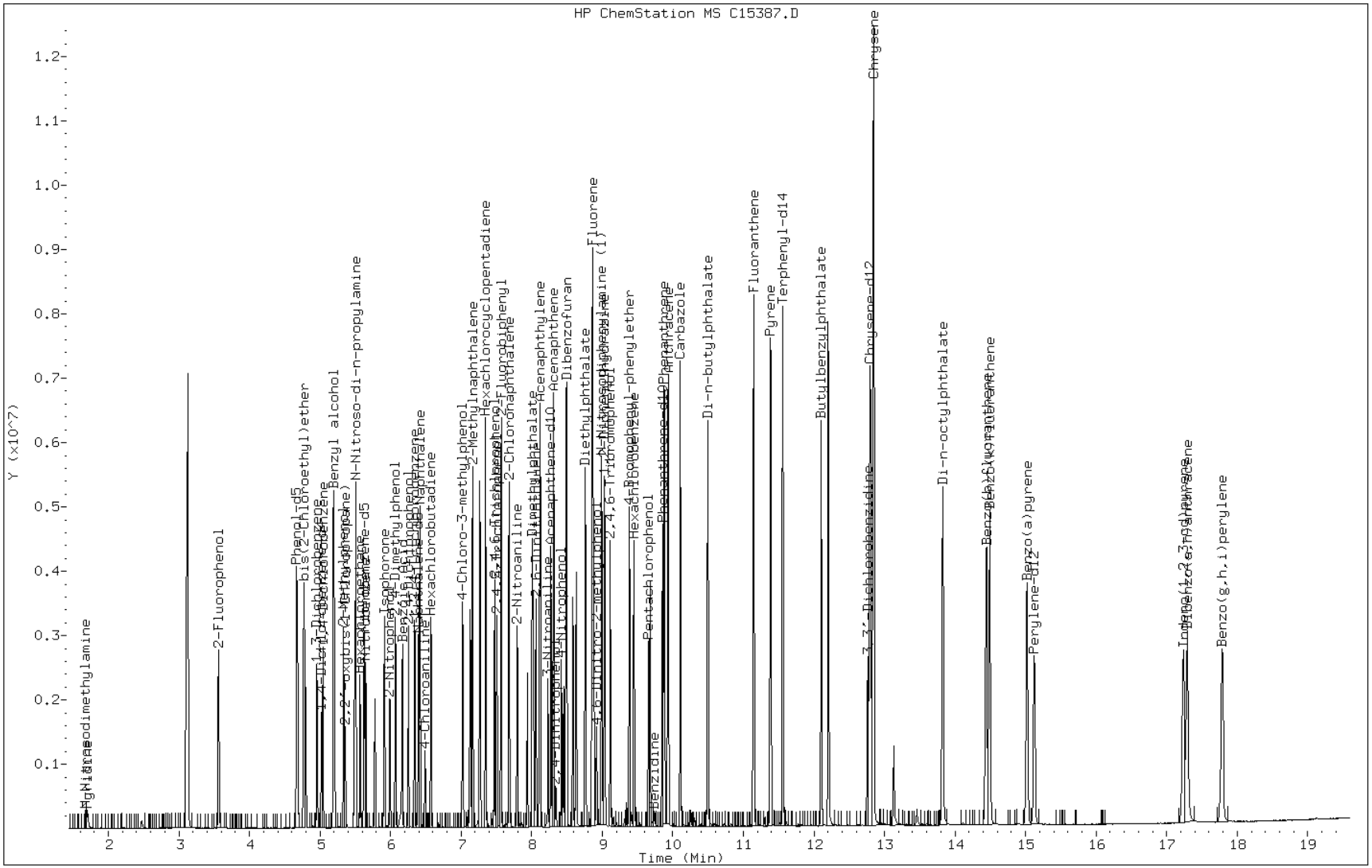
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: C15387.D

Date: 22-DEC-2009 09:59

Client ID: LCS 220-34355/2-A Instrument: msc.i

Sample Info: LCS 220-34355/2-A Operator: S.Jonas



Manual Integration Report

Data File: C15387.D
Inj. Date and Time: 22-DEC-2009 09:59
Instrument ID: msc.i
Client ID: LCS 220-34355/2-A
Compound: 55 4-Nitroaniline
CAS #: 100-01-6
Report Date: 12/22/2009

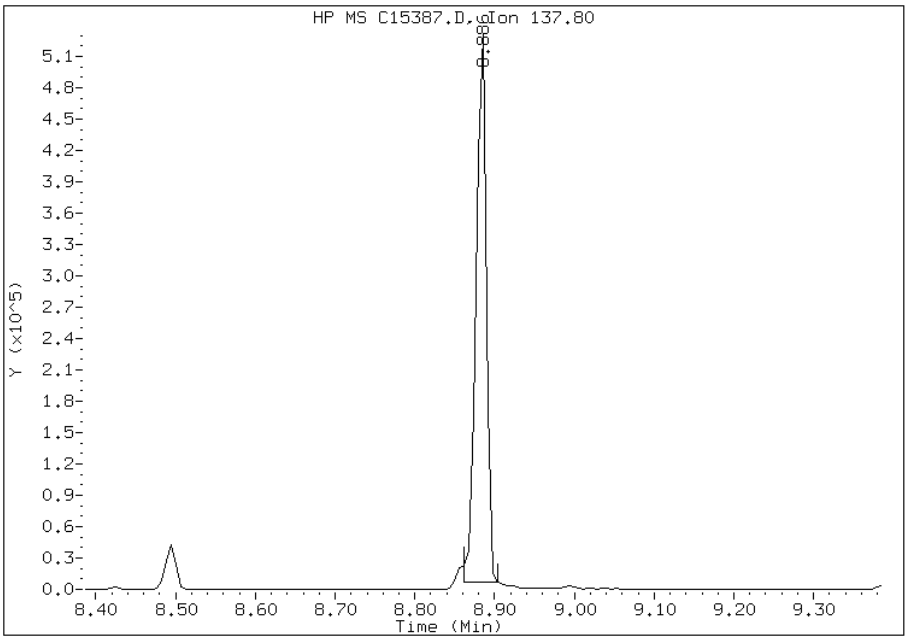
Processing Integration Results

RT: 8.89

Response: 469003

Amount: 28

Conc: 1835



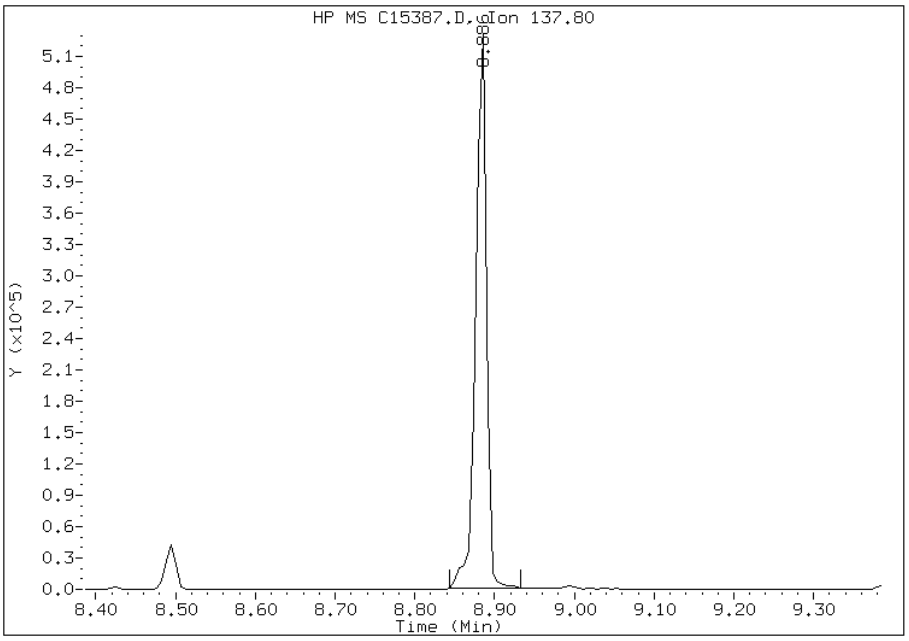
Manual Integration Results

RT: 8.89

Response: 496184

Amount: 29

Conc: 1942



Manually Integrated By: conbna
Manual Integration Reason: Incorrect peak integration

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34526/2-A

Matrix: Solid | Lab File ID: A9263.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.50(g) | Date Analyzed: 12/23/2009 08:50

Con. Extract Vol.: .5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	1930		1700	14
88-06-2	2,4,6-Trichlorophenol	1930		270	7.4
120-83-2	2,4-Dichlorophenol	1840		270	14
105-67-9	2,4-Dimethylphenol	1750		270	13
121-14-2	2,4-Dinitrotoluene	2080		270	22
51-28-5	2,4-Dinitrophenol	2170		1700	81
606-20-2	2,6-Dinitrotoluene	2080		270	7.9
91-58-7	2-Chloronaphthalene	1890		270	12
95-57-8	2-Chlorophenol	1790		270	16
91-57-6	2-Methylnaphthalene	1870		270	7.7
95-48-7	2-Methylphenol	1830		270	16
88-74-4	2-Nitroaniline	1940		670	16
88-75-5	2-Nitrophenol	1810		270	17
91-94-1	3,3'-Dichlorobenzidine	1970		330	56
99-09-2	3-Nitroaniline	1590		670	8.6
534-52-1	4,6-Dinitro-2-methylphenol	2080		1700	120
101-55-3	4-Bromophenyl phenyl ether	1990		270	17
59-50-7	4-Chloro-3-methylphenol	1960		270	11
106-47-8	4-Chloroaniline	1330		270	44
7005-72-3	4-Chlorophenyl phenyl ether	1970		270	20
106-44-5	4-Methylphenol	3550		270	18
100-01-6	4-Nitroaniline	2020		270	21
100-02-7	4-Nitrophenol	2140		1700	20
83-32-9	Acenaphthene	1840		270	16
208-96-8	Acenaphthylene	1830		270	13
120-12-7	Anthracene	2010		270	11
56-55-3	Benzo[a]anthracene	2060		270	9.6
50-32-8	Benzo[a]pyrene	2040		270	7.3
205-99-2	Benzo[b]fluoranthene	1880		270	7.2
191-24-2	Benzo[g,h,i]perylene	2480		270	18
207-08-9	Benzo[k]fluoranthene	1700		270	24
111-91-1	Bis(2-chloroethoxy)methane	1800		270	13
111-44-4	Bis(2-chloroethyl)ether	1720		270	14
117-81-7	Bis(2-ethylhexyl) phthalate	2400		270	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34526/2-A

Matrix: Solid | Lab File ID: A9263.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.50(g) | Date Analyzed: 12/23/2009 08:50

Con. Extract Vol.: .5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-68-7	Butyl benzyl phthalate	2130		270	15
86-74-8	Carbazole	2070		270	15
218-01-9	Chrysene	2010		270	20
84-74-2	Di-n-butyl phthalate	2200		270	39
117-84-0	Di-n-octyl phthalate	1730		270	15
53-70-3	Dibenz(a,h)anthracene	2800		270	21
132-64-9	Dibenzofuran	1900		270	19
84-66-2	Diethyl phthalate	2070		270	27
131-11-3	Dimethyl phthalate	1920		270	16
206-44-0	Fluoranthene	2120		270	13
86-73-7	Fluorene	1940		270	16
118-74-1	Hexachlorobenzene	1970		270	19
87-68-3	Hexachlorobutadiene	1790		270	21
77-47-4	Hexachlorocyclopentadiene	1550		670	130
67-72-1	Hexachloroethane	1670		270	15
193-39-5	Indeno[1,2,3-cd]pyrene	2940		270	18
78-59-1	Isophorone	1800		270	15
621-64-7	N-Nitrosodi-n-propylamine	1830		270	18
86-30-6	N-Nitrosodiphenylamine	1920		270	15
91-20-3	Naphthalene	1760		270	14
98-95-3	Nitrobenzene	1750		270	17
87-86-5	Pentachlorophenol	2260		670	160
85-01-8	Phenanthrene	1990		270	13
108-95-2	Phenol	1790		270	18
129-00-0	Pyrene	1900		270	13
108-60-1	2,2'-oxybis[1-chloropropane]	1760		270	14

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 220-34526/2-A

Matrix: Solid | Lab File ID: A9263.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3541 | Date Extracted: 12/22/2009 10:17

Sample wt/vol: 7.50(g) | Date Analyzed: 12/23/2009 08:50

Con. Extract Vol.: .5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34589 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	70	37-120	
321-60-8	2-Fluorobiphenyl	65	41-120	
367-12-4	2-Fluorophenol	64	34-120	
4165-60-0	Nitrobenzene-d5	65	38-120	
4165-62-2	Phenol-d5	64	36-120	
1718-51-0	Terphenyl-d14	69	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msa.i\A099261.b\A9263.D
Lab Smp Id: LCS 220-34526/2-A Client Smp ID: LCS 220-34526/2-A
Inj Date : 23-DEC-2009 08:50
Operator : S.Jonas Inst ID: msa.i
Smp Info : LCS 220-34526/2-A
Misc Info :
Comment :
Method : \\consvr05\files\chem\BNA\msa.i\A099261.b\MSA-8270C.m
Meth Date : 23-Dec-2009 08:10 conbna Quant Type: ISTD
Cal Date : 21-DEC-2009 17:59 Cal File: Aa9222.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	0.50000	Volume of final extract (mL)(1000 low, 2
Ws	7.500	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.799	4.787	(1.000)	322075	20.0000	
$ 2	2-Fluorophenol	112	3.410	3.339	(0.711)	848955	48.3060	3200
$ 3	Phenol-d5	99	4.485	4.467	(0.934)	1298619	48.2334	3200
4	Pyridine	52	1.594	1.558	(0.332)	45373	16.4517	1100
5	N-Nitrosodimethylamine	42	1.582	1.552	(0.330)	49909	22.7720	1500
7	Phenol	94	4.497	4.479	(0.937)	718953	26.8184	1800
8	Aniline	93	4.455	4.443	(0.928)	786582	24.6710	1600
9	bis(2-Chloroethyl)ether	63	4.556	4.544	(0.949)	446930	25.8571	1700
10	2-Chlorophenol	128	4.586	4.568	(0.955)	599367	26.8457	1800
11	1,3-Dichlorobenzene	146	4.734	4.728	(0.986)	622710	24.5219	1600
12	1,4-Dichlorobenzene	146	4.817	4.811	(1.004)	642530	24.8542	1700
13	Benzyl alcohol	108	4.983	4.977	(1.038)	405059	28.8826	1900
14	1,2-Dichlorobenzene	146	4.977	4.971	(1.037)	609927	25.4074	1700
15	2,2'-oxybis(1-Chloropropane)	45	5.132	5.131	(1.069)	963333	26.3720	1800
16	2-Methylphenol	108	5.126	5.125	(1.068)	574849	27.4410	1800
17	Hexachloroethane	117	5.333	5.327	(1.111)	277094	25.0690	1700
18	N-Nitroso-di-n-propylamine	70	5.274	5.274	(1.099)	481443	27.4187	1800
19	4-Methylphenol	108	5.304	5.292	(1.105)	1220687	53.2842	3600(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	20 Naphthalene-d8	136	6.153	6.152	(1.000)	1535666	20.0000	
$	21 Nitrobenzene-d5	82	5.399	5.399	(0.877)	869821	32.3617	2200
	22 Nitrobenzene	77	5.422	5.416	(0.881)	679237	26.2462	1700
	23 Isophorone	82	5.690	5.689	(0.925)	1311930	27.0671	1800
	24 2-Nitrophenol	139	5.761	5.761	(0.936)	391810	27.1510	1800
	25 2,4-Dimethylphenol	122	5.850	5.850	(0.951)	574236	26.3024	1800
	26 Benzoic Acid	122	6.022	6.016	(0.979)	435990	26.0097	1700
	27 Bis(2-Chloroethoxy)methane	93	5.939	5.945	(0.965)	816695	27.0653	1800
	28 2,4-Dichlorophenol	162	6.028	6.028	(0.980)	604082	27.6592	1800
	29 1,2,4-Trichlorobenzene	180	6.105	6.105	(0.992)	620958	26.6904	1800
	30 Naphthalene	128	6.176	6.176	(1.004)	2064143	26.3439	1800
	31 4-Chloroaniline	127	6.253	6.253	(1.016)	655692	19.8934	1300
	32 Hexachlorobutadiene	225	6.331	6.330	(1.029)	329469	26.8174	1800
	33 4-Chloro-3-methylphenol	107	6.788	6.805	(1.103)	674402	29.3739	2000
	34 2-Methylnaphthalene	142	6.912	6.918	(1.123)	1522052	28.0466	1900
*	35 Acenaphthene-d10	164	8.016	8.016	(1.000)	1105848	20.0000	
	37 Hexachlorocyclopentadiene	237	7.096	7.096	(0.885)	297386	23.2189	1500
	38 2,4,6-Trichlorophenol	196	7.227	7.233	(0.902)	503775	28.8967	1900
	39 2,4,5-Trichlorophenol	196	7.262	7.274	(0.906)	530132	28.9886	1900
$	40 2-Fluorobiphenyl	172	7.322	7.322	(0.913)	2052583	32.7258	2200
	41 2-Chloronaphthalene	162	7.429	7.434	(0.927)	1503919	28.3619	1900
	42 2-Nitroaniline	65	7.547	7.553	(0.942)	552859	29.1053	1900
	43 Acenaphthylene	152	7.862	7.868	(0.981)	2685793	27.5003	1800
	44 Dimethylphthalate	163	7.773	7.767	(0.970)	1839778	28.8657	1900
	45 2,6-Dinitrotoluene	165	7.820	7.820	(0.976)	468706	31.2028	2100
	46 Acenaphthene	153	8.052	8.052	(1.004)	1676592	27.6383	1800
	47 3-Nitroaniline	138	7.992	7.992	(0.997)	449020	23.8408	1600
	48 2,4-Dinitrophenol	184	8.099	8.099	(1.010)	271430	32.5840	2200
	49 Dibenzofuran	168	8.236	8.236	(1.027)	2352690	28.5299	1900
	50 2,4-Dinitrotoluene	165	8.242	8.242	(1.028)	611673	31.2188	2100
	51 4-Nitrophenol	109	8.194	8.200	(1.022)	277435	32.1037	2100
	52 Fluorene	166	8.598	8.598	(1.073)	2017441	29.1384	1900
	53 4-Chlorophenyl-phenylether	204	8.610	8.609	(1.074)	871093	29.5855	2000
	54 Diethylphthalate	149	8.515	8.520	(1.062)	2169073	31.0337	2100
	55 4-Nitroaniline	138	8.645	8.651	(1.078)	596363	30.3510	2000
$	56 2,4,6-Tribromophenol	330	8.859	8.859	(1.105)	528017	52.4167	3500
*	57 Phenanthrene-d10	188	9.583	9.583	(1.000)	2035953	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.675	8.675	(0.905)	392490	31.1285	2100
	59 N-Nitrosodiphenylamine (1)	169	8.740	8.746	(0.912)	1555019	28.7879	1900
	60 1,2-Diphenylhydrazine	77	8.776	8.782	(0.916)	2360152	28.4604	1900
	61 4-Bromophenyl-phenylether	248	9.120	9.126	(0.952)	568118	29.8043	2000
	62 Hexachlorobenzene	284	9.185	9.185	(0.959)	622178	29.5258	2000
	63 Pentachlorophenol	266	9.393	9.399	(0.980)	445216	33.8262	2300
	64 Phenanthrene	178	9.613	9.613	(1.003)	3283607	29.7783	2000
	65 Carbazole	167	9.838	9.844	(1.027)	3389752	31.0750	2100
	66 Anthracene	178	9.666	9.666	(1.009)	3345337	30.1602	2000
	67 Di-n-butylphthalate	149	10.236	10.242	(1.068)	4384487	32.9738	2200
	68 Fluoranthene	202	10.865	10.871	(1.134)	3888597	31.8415	2100
*	70 Chrysene-d12	240	12.462	12.462	(1.000)	2329976	20.0000	
	72 Pyrene	202	11.103	11.108	(0.891)	4057334	28.4901	1900
$	73 Terphenyl-d14	244	11.287	11.286	(0.906)	3191428	34.3482	2300
	74 Butylbenzylphthalate	149	11.815	11.820	(0.948)	2206177	31.8851	2100
	75 3,3'-Dichlorobenzidine	252	12.426	12.432	(0.997)	1025066	29.5766	2000
	76 Benzo(a)anthracene	228	12.444	12.450	(0.999)	3706222	30.9189	2100

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	77 Chrysene	228	12.497	12.497	(1.003)	3583418	30.1264	2000
	78 Bis(2-Ethylhexyl)phthalate	149	12.515	12.515	(1.004)	3041835	36.0022	2400
*	79 Perylene-d12	264	14.616	14.616	(1.000)	1879549	20.0000	
	80 Di-n-octylphthalate	149	13.429	13.429	(0.919)	5108674	25.8945	1700
	81 Benzo(b)fluoranthene	252	13.987	13.987	(0.957)	3743775	28.2370	1900
	82 Benzo(k)fluoranthene	252	14.035	14.040	(0.960)	3803742	25.4787	1700
	83 Benzo(a)pyrene	252	14.521	14.527	(0.994)	3158491	30.6196	2000
	84 Indeno(1,2,3-cd)pyrene	276	16.611	16.610	(1.136)	2388528	44.1664	2900
	85 Dibenzo(a,h)anthracene	278	16.664	16.670	(1.140)	2474040	42.0435	2800
	86 Benzo(g,h,i)perylene	276	17.127	17.133	(1.172)	2204316	37.1979	2500

QC Flag Legend

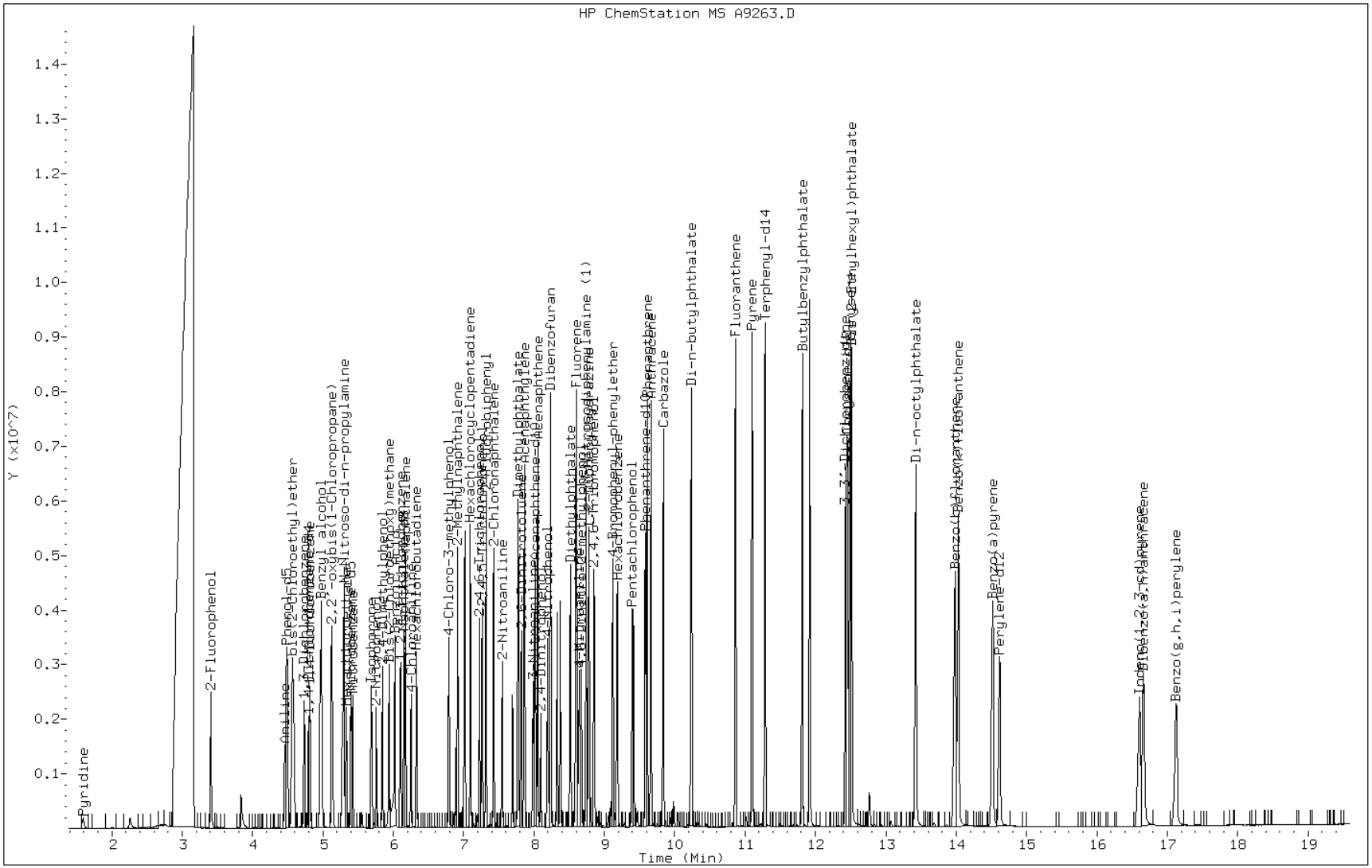
R - Spike/Surrogate failed recovery limits.

Data File: A9263.D

Date: 23-DEC-2009 08:50

Client ID: LCS 220-34526/2-A Instrument: msa.i

Sample Info: LCS 220-34526/2-A Operator: S.Jonas



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') MS | Lab Sample ID: 220-11066-12 MS

Matrix: Solid | Lab File ID: C15404.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.00(g) | Date Analyzed: 12/22/2009 18:45

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	360	U	360	24
95-95-4	2,4,5-Trichlorophenol	2740		2300	18
88-06-2	2,4,6-Trichlorophenol	2720		360	10
120-83-2	2,4-Dichlorophenol	2550		360	19
105-67-9	2,4-Dimethylphenol	2670		360	18
121-14-2	2,4-Dinitrotoluene	2850		360	29
51-28-5	2,4-Dinitrophenol	2050	J	2300	110
606-20-2	2,6-Dinitrotoluene	3000		360	11
91-58-7	2-Chloronaphthalene	2550		360	16
95-57-8	2-Chlorophenol	2390		360	21
91-57-6	2-Methylnaphthalene	2610		360	10
95-48-7	2-Methylphenol	2470		360	22
88-74-4	2-Nitroaniline	2920		900	22
88-75-5	2-Nitrophenol	2670		360	23
91-94-1	3,3'-Dichlorobenzidine	2410		450	75
99-09-2	3-Nitroaniline	2590		900	12
534-52-1	4,6-Dinitro-2-methylphenol	1940	J	2300	160
101-55-3	4-Bromophenyl phenyl ether	2910		360	23
59-50-7	4-Chloro-3-methylphenol	2750		360	15
106-47-8	4-Chloroaniline	1750		360	59
7005-72-3	4-Chlorophenyl phenyl ether	2670		360	27
106-44-5	4-Methylphenol	4830		360	24
100-01-6	4-Nitroaniline	2740		360	28
100-02-7	4-Nitrophenol	2740		2300	28
83-32-9	Acenaphthene	2570		360	22
208-96-8	Acenaphthylene	2510		360	18
98-86-2	Acetophenone	360	U	360	19
120-12-7	Anthracene	2830		360	14
1912-24-9	Atrazine	450	U	450	23
100-52-7	Benzaldehyde	360	U	360	61
56-55-3	Benzo[a]anthracene	3110		360	13
50-32-8	Benzo[a]pyrene	3080		360	9.8
205-99-2	Benzo[b]fluoranthene	3320		360	9.7
191-24-2	Benzo[g,h,i]perylene	2700		360	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') MS | Lab Sample ID: 220-11066-12 MS

Matrix: Solid | Lab File ID: C15404.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.00(g) | Date Analyzed: 12/22/2009 18:45

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	3080		360	33
111-91-1	Bis(2-chloroethoxy)methane	2400		360	17
111-44-4	Bis(2-chloroethyl)ether	2310		360	19
117-81-7	Bis(2-ethylhexyl) phthalate	3160		360	35
85-68-7	Butyl benzyl phthalate	3130		360	20
105-60-2	Caprolactam	238	J	360	29
86-74-8	Carbazole	2820		360	20
218-01-9	Chrysene	2880		360	27
84-74-2	Di-n-butyl phthalate	2930		360	53
117-84-0	Di-n-octyl phthalate	3990		360	21
53-70-3	Dibenz(a,h)anthracene	2790		360	29
132-64-9	Dibenzofuran	2610		360	26
84-66-2	Diethyl phthalate	2370		360	37
131-11-3	Dimethyl phthalate	2680		360	21
206-44-0	Fluoranthene	3140		360	18
86-73-7	Fluorene	2700		360	22
118-74-1	Hexachlorobenzene	2910		360	25
87-68-3	Hexachlorobutadiene	2390		360	28
77-47-4	Hexachlorocyclopentadiene	900	U	900	170
67-72-1	Hexachloroethane	1670		360	21
193-39-5	Indeno[1,2,3-cd]pyrene	2940		360	24
78-59-1	Isophorone	2410		360	20
621-64-7	N-Nitrosodi-n-propylamine	2400		360	25
86-30-6	N-Nitrosodiphenylamine	2910		360	21
91-20-3	Naphthalene	2450		360	19
98-95-3	Nitrobenzene	2370		360	23
87-86-5	Pentachlorophenol	2250		900	220
85-01-8	Phenanthrene	3160		360	18
108-95-2	Phenol	2250		360	24
129-00-0	Pyrene	3480		360	17
108-60-1	2,2'-oxybis[1-chloropropane]	2170		360	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') MS | Lab Sample ID: 220-11066-12 MS

Matrix: Solid | Lab File ID: C15404.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.00(g) | Date Analyzed: 12/22/2009 18:45

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	74	37-120	
321-60-8	2-Fluorobiphenyl	64	41-120	
367-12-4	2-Fluorophenol	63	34-120	
4165-60-0	Nitrobenzene-d5	65	38-120	
4165-62-2	Phenol-d5	62	36-120	
1718-51-0	Terphenyl-d14	79	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15404.D
Lab Smp Id: 220-11066-A-12-C MS Client Smp ID: PBL-2-60-N(11')
Inj Date : 22-DEC-2009 18:45
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-12-C MS
Misc Info : 220-11066-A-12-C MS
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 21 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.000	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	25.872	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.027	5.021	(1.000)	298088	20.0000	
$ 2	2-Fluorophenol	112	3.567	3.549	(0.710)	896772	47.4011	4300
$ 3	Phenol-d5	99	4.677	4.671	(0.930)	1240362	46.8494	4200
4	Pyridine	52	1.709	1.674	(0.340)	86232	19.0884	1700
5	N-Nitrosodimethylamine	42	1.686	1.656	(0.335)	83158	25.4086	2300
7	Phenol	94	4.695	4.689	(0.934)	750178	25.0605	2300(R)
8	Aniline	93	4.671	4.665	(0.929)	535036	16.2693	1500
9	bis(2-Chloroethyl)ether	63	4.766	4.760	(0.948)	404089	25.6427	2300
10	2-Chlorophenol	128	4.796	4.790	(0.954)	601670	26.6306	2400
11	1,3-Dichlorobenzene	146	4.962	4.956	(0.987)	582844	23.0807	2100
12	1,4-Dichlorobenzene	146	5.045	5.039	(1.004)	610362	23.7339	2100
13	Benzyl alcohol	108	5.199	5.193	(1.034)	392935	25.7864	2300
14	1,2-Dichlorobenzene	146	5.205	5.205	(1.035)	597001	24.3027	2200
15	2,2'-oxybis(1-Chloropropane)	45	5.354	5.354	(1.065)	707801	24.0829	2200
16	2-Methylphenol	108	5.342	5.336	(1.063)	599779	27.4253	2500
17	Hexachloroethane	117	5.573	5.567	(1.109)	191750	18.5248	1700
18	N-Nitroso-di-n-propylamine	70	5.496	5.490	(1.093)	486097	26.6775	2400
19	4-Methylphenol	108	5.514	5.502	(1.097)	1246253	53.7559	4800

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	20 Naphthalene-d8	136	6.398	6.398	(1.000)	1444701	20.0000	
$	21 Nitrobenzene-d5	82	5.633	5.627	(0.880)	867009	32.4214	2900
	22 Nitrobenzene	77	5.650	5.650	(0.883)	699550	26.3365	2400
	23 Isophorone	82	5.917	5.917	(0.925)	1339699	26.8482	2400
	24 2-Nitrophenol	139	5.995	5.995	(0.937)	367861	29.6457	2700
	25 2,4-Dimethylphenol	122	6.072	6.072	(0.949)	654836	29.7226	2700
	26 Benzoic Acid	122	6.196	6.202	(0.968)	299663	23.9556	2200(R)
	27 Bis(2-Chloroethoxy)methane	93	6.167	6.167	(0.964)	795736	26.6979	2400
	28 2,4-Dichlorophenol	162	6.262	6.256	(0.979)	613833	28.3412	2500
	29 1,2,4-Trichlorobenzene	180	6.345	6.345	(0.992)	605394	25.9206	2300
	30 Naphthalene	128	6.422	6.416	(1.004)	2136074	27.2966	2500
	31 4-Chloroaniline	127	6.493	6.493	(1.015)	628798	19.4894	1800
	32 Hexachlorobutadiene	225	6.576	6.576	(1.028)	384938	26.5748	2400
	129 Caprolactam	113	7.027	6.879	(1.098)	23761	2.64206	240
	33 4-Chloro-3-methylphenol	107	7.027	7.027	(1.098)	766892	30.6097	2800
	34 2-Methylnaphthalene	142	7.170	7.164	(1.121)	1552574	29.0568	2600
*	35 Acenaphthene-d10	164	8.280	8.274	(1.000)	1072320	20.0000	
	38 2,4,6-Trichlorophenol	196	7.478	7.478	(0.903)	540061	30.2605	2700
	39 2,4,5-Trichlorophenol	196	7.514	7.514	(0.908)	586695	30.4205	2700
$	40 2-Fluorobiphenyl	172	7.567	7.567	(0.914)	2076854	32.0855	2900
	41 2-Chloronaphthalene	162	7.686	7.680	(0.928)	1587792	28.3303	2500
	42 2-Nitroaniline	65	7.799	7.799	(0.942)	576337	32.4949	2900
	43 Acenaphthylene	152	8.125	8.119	(0.981)	2657144	27.9297	2500
	44 Dimethylphthalate	163	8.013	8.007	(0.968)	2025363	29.7981	2700
	45 2,6-Dinitrotoluene	165	8.066	8.060	(0.974)	486887	33.3534	3000
	46 Acenaphthene	153	8.315	8.309	(1.004)	1652025	28.6030	2600
	47 3-Nitroaniline	138	8.238	8.238	(0.995)	504347	28.7773	2600
	48 2,4-Dinitrophenol	184	8.351	8.345	(1.009)	106096	22.7889	2000
	49 Dibenzofuran	168	8.499	8.493	(1.027)	2465272	28.9960	2600
	50 2,4-Dinitrotoluene	165	8.493	8.487	(1.026)	654731	31.6384	2800
	51 4-Nitrophenol	109	8.434	8.428	(1.019)	282976	30.4622	2700(R)
	52 Fluorene	166	8.861	8.861	(1.070)	2090709	30.0408	2700
	53 4-Chlorophenyl-phenylether	204	8.873	8.867	(1.072)	972177	29.7223	2700
	54 Diethylphthalate	149	8.766	8.766	(1.059)	2095244	26.3236	2400
	55 4-Nitroaniline	138	8.891	8.891	(1.074)	584953	30.4658	2700
$	56 2,4,6-Tribromophenol	330	9.122	9.117	(1.102)	545629	55.8273	5000
*	57 Phenanthrene-d10	188	9.858	9.852	(1.000)	1783412	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.927	8.921	(0.905)	231619	21.5865	1900
	59 N-Nitrosodiphenylamine (1)	169	8.998	8.998	(0.913)	1641772	32.3068	2900
	60 1,2-Diphenylhydrazine	77	9.039	9.039	(0.917)	2263487	30.8747	2800
	61 4-Bromophenyl-phenylether	248	9.390	9.390	(0.952)	606327	32.3955	2900
	62 Hexachlorobenzene	284	9.455	9.455	(0.959)	651973	32.3712	2900
	63 Pentachlorophenol	266	9.663	9.663	(0.980)	304489	24.9965	2200
	64 Phenanthrene	178	9.888	9.882	(1.003)	3532195	35.1156	3200
	65 Carbazole	167	10.114	10.108	(1.026)	3139932	31.3833	2800
	66 Anthracene	178	9.942	9.936	(1.008)	3285528	31.4501	2800
	67 Di-n-butylphthalate	149	10.499	10.499	(1.065)	3928146	32.5833	2900
	68 Fluoranthene	202	11.152	11.146	(1.131)	4045121	34.8735	3100
*	70 Chrysene-d12	240	12.814	12.808	(1.000)	1818644	20.0000	
	71 Benzidine	184	9.746	9.746	(0.761)	114117	46.3331	4200
	72 Pyrene	202	11.396	11.390	(0.889)	4192300	38.6880	3500
$	73 Terphenyl-d14	244	11.562	11.562	(0.902)	3003153	39.6890	3600
	74 Butylbenzylphthalate	149	12.108	12.108	(0.945)	1744714	34.7675	3100
	75 3,3'-Dichlorobenzidine	252	12.767	12.767	(0.996)	863791	26.8442	2400

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
76	Benzo(a)anthracene	228	12.802	12.796	(0.999)	3556173	34.5742	3100
77	Chrysene	228	12.850	12.850	(1.003)	3184644	32.0510	2900
78	Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	2403006	35.1031	3200
* 79	Perylene-d12	264	15.135	15.129	(1.000)	1156272	20.0000	
80	Di-n-octylphthalate	149	13.829	13.829	(0.914)	4060169	44.4151	4000
81	Benzo(b)fluoranthene	252	14.452	14.452	(0.955)	2951253	36.8859	3300
82	Benzo(k)fluoranthene	252	14.500	14.500	(0.958)	2978797	34.1969	3100
83	Benzo(a)pyrene	252	15.028	15.028	(0.993)	2332206	34.2074	3100
84	Indeno(1,2,3-cd)pyrene	276	17.254	17.242	(1.140)	1953227	32.6445	2900
85	Dibenzo(a,h)anthracene	278	17.307	17.301	(1.144)	1970453	30.9976	2800
86	Benzo(g,h,i)perylene	276	17.806	17.794	(1.176)	1956511	30.0446	2700

QC Flag Legend

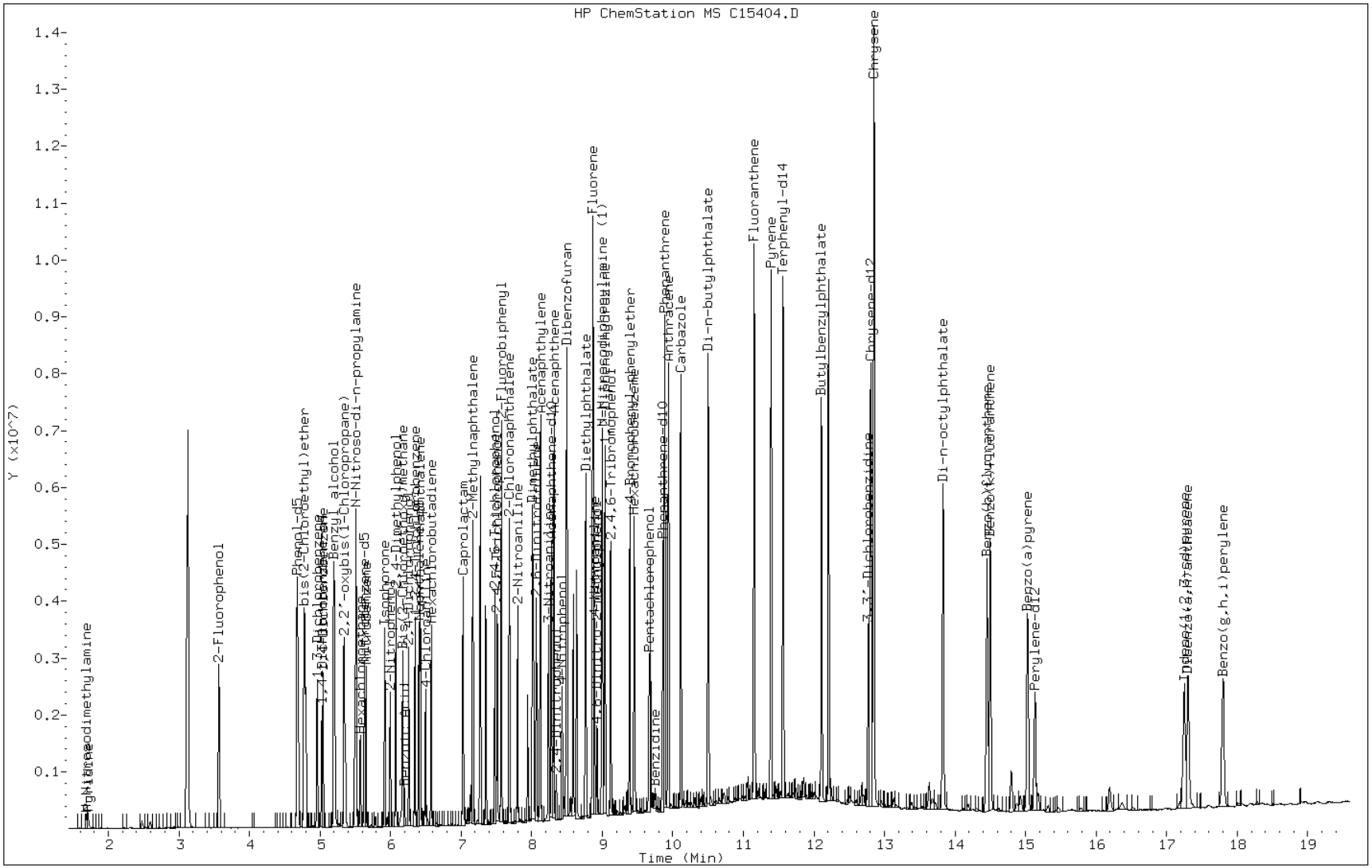
R - Spike/Surrogate failed recovery limits.

Data File: C15404.D

Date: 22-DEC-2009 18:45

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-C MS Operator: S.Jonas



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') MSD | Lab Sample ID: 220-11066-12 MSD

Matrix: Solid | Lab File ID: C15405.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.02(g) | Date Analyzed: 12/22/2009 19:15

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	360	U	360	24
95-95-4	2,4,5-Trichlorophenol	2600		2300	18
88-06-2	2,4,6-Trichlorophenol	2550		360	10
120-83-2	2,4-Dichlorophenol	2400		360	19
105-67-9	2,4-Dimethylphenol	2510		360	18
121-14-2	2,4-Dinitrotoluene	2720		360	29
51-28-5	2,4-Dinitrophenol	2090	J	2300	110
606-20-2	2,6-Dinitrotoluene	2840		360	11
91-58-7	2-Chloronaphthalene	2430		360	15
95-57-8	2-Chlorophenol	2250		360	21
91-57-6	2-Methylnaphthalene	2510		360	10
95-48-7	2-Methylphenol	2260		360	22
88-74-4	2-Nitroaniline	2800		900	22
88-75-5	2-Nitrophenol	2540		360	23
91-94-1	3,3'-Dichlorobenzidine	2530		440	75
99-09-2	3-Nitroaniline	2580		900	12
534-52-1	4,6-Dinitro-2-methylphenol	1950	J	2300	160
101-55-3	4-Bromophenyl phenyl ether	2770		360	23
59-50-7	4-Chloro-3-methylphenol	2560		360	15
106-47-8	4-Chloroaniline	1840		360	59
7005-72-3	4-Chlorophenyl phenyl ether	2560		360	27
106-44-5	4-Methylphenol	4620		360	24
100-01-6	4-Nitroaniline	2660		360	28
100-02-7	4-Nitrophenol	2650		2300	27
83-32-9	Acenaphthene	2470		360	22
208-96-8	Acenaphthylene	2400		360	18
98-86-2	Acetophenone	360	U	360	19
120-12-7	Anthracene	2720		360	14
1912-24-9	Atrazine	440	U	440	23
100-52-7	Benzaldehyde	360	U	360	61
56-55-3	Benzo[a]anthracene	3010		360	13
50-32-8	Benzo[a]pyrene	2990		360	9.8
205-99-2	Benzo[b]fluoranthene	3250		360	9.7
191-24-2	Benzo[g,h,i]perylene	2630		360	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') MSD | Lab Sample ID: 220-11066-12 MSD

Matrix: Solid | Lab File ID: C15405.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.02(g) | Date Analyzed: 12/22/2009 19:15

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	2960		360	33
111-91-1	Bis(2-chloroethoxy)methane	2280		360	17
111-44-4	Bis(2-chloroethyl)ether	2170		360	19
117-81-7	Bis(2-ethylhexyl) phthalate	3080		360	35
85-68-7	Butyl benzyl phthalate	3110		360	20
105-60-2	Caprolactam	360	U	360	29
86-74-8	Carbazole	2700		360	20
218-01-9	Chrysene	2800		360	27
84-74-2	Di-n-butyl phthalate	2820		360	53
117-84-0	Di-n-octyl phthalate	3900		360	21
53-70-3	Dibenz(a,h)anthracene	2690		360	29
132-64-9	Dibenzofuran	2490		360	26
84-66-2	Diethyl phthalate	2310		360	37
131-11-3	Dimethyl phthalate	2570		360	21
206-44-0	Fluoranthene	2770		360	18
86-73-7	Fluorene	2590		360	22
118-74-1	Hexachlorobenzene	2800		360	25
87-68-3	Hexachlorobutadiene	2270		360	28
77-47-4	Hexachlorocyclopentadiene	900	U	900	170
67-72-1	Hexachloroethane	1390		360	21
193-39-5	Indeno[1,2,3-cd]pyrene	2860		360	24
78-59-1	Isophorone	2310		360	20
621-64-7	N-Nitrosodi-n-propylamine	2260		360	25
86-30-6	N-Nitrosodiphenylamine	2740		360	20
91-20-3	Naphthalene	2310		360	19
98-95-3	Nitrobenzene	2260		360	23
87-86-5	Pentachlorophenol	1980		900	220
85-01-8	Phenanthrene	2800		360	18
108-95-2	Phenol	2150		360	24
129-00-0	Pyrene	3170		360	17
108-60-1	2,2'-oxybis[1-chloropropane]	2040		360	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-11066-1

SDG No.:

Client Sample ID: PBL-2-60-N(11') MSD | Lab Sample ID: 220-11066-12 MSD

Matrix: Solid | Lab File ID: C15405.D

Analysis Method: 8270C | Date Collected: 12/15/2009 12:15

Extract. Method: 3541 | Date Extracted: 12/16/2009 15:22

Sample wt/vol: 15.02(g) | Date Analyzed: 12/22/2009 19:15

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 34531 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
118-79-6	2,4,6-Tribromophenol	73	37-120	
321-60-8	2-Fluorobiphenyl	62	41-120	
367-12-4	2-Fluorophenol	58	34-120	
4165-60-0	Nitrobenzene-d5	61	38-120	
4165-62-2	Phenol-d5	59	36-120	
1718-51-0	Terphenyl-d14	79	32-125	

TestAmerica Inc

Semivolatile REPORT SW-846 Method 8270

Data file : \\consvr05\files\chem\BNA\msc.i\C0915383.b\C15405.D
Lab Smp Id: 220-11066-A-12-D MS Client Smp ID: PBL-2-60-N(11')
Inj Date : 22-DEC-2009 19:15
Operator : S.Jonas Inst ID: msc.i
Smp Info : 220-11066-A-12-D MSD
Misc Info : 220-11066-A-12-D MSD
Comment :
Method : \\consvr05\files\chem\BNA\msc.i\C0915383.b\MSC-8270C.m
Meth Date : 22-Dec-2009 08:20 conbna Quant Type: ISTD
Cal Date : 18-DEC-2009 14:30 Cal File: C15331.D
Als bottle: 22 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 4.14
Processing Host: CONMSA

Concentration Formula:
Amt * DF * Uf * (1000*Vt)/(Ws *Vi* ((100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)(1000 low, 2
Ws	15.020	Weight of sample extracted (g)
Vi	1.000	InjectionVol
M	25.872	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.027	5.021	(1.000)	293817	20.0000	
$ 2	2-Fluorophenol	112	3.567	3.549	(0.710)	808492	43.3560	3900
$ 3	Phenol-d5	99	4.677	4.671	(0.930)	1146628	43.9385	3900
4	Pyridine	52	1.709	1.674	(0.340)	86024	19.3191	1700
5	N-Nitrosodimethylamine	42	1.686	1.656	(0.335)	79087	24.5160	2200
7	Phenol	94	4.689	4.689	(0.933)	707269	23.9706	2200(R)
8	Aniline	93	4.671	4.665	(0.929)	496466	15.3159	1400
9	bis(2-Chloroethyl)ether	63	4.766	4.760	(0.948)	375298	24.1619	2200
10	2-Chlorophenol	128	4.796	4.790	(0.954)	557649	25.0409	2200
11	1,3-Dichlorobenzene	146	4.962	4.956	(0.987)	540703	21.7232	2000
12	1,4-Dichlorobenzene	146	5.045	5.039	(1.004)	570935	22.5235	2000
13	Benzyl alcohol	108	5.199	5.193	(1.034)	328294	21.8575	2000
14	1,2-Dichlorobenzene	146	5.205	5.205	(1.035)	558357	23.0599	2100
15	2,2'-oxybis(1-Chloropropane)	45	5.354	5.354	(1.065)	658238	22.7221	2000
16	2-Methylphenol	108	5.336	5.336	(1.061)	542833	25.1822	2300
17	Hexachloroethane	117	5.567	5.567	(1.107)	157728	15.4595	1400
18	N-Nitroso-di-n-propylamine	70	5.490	5.490	(1.092)	452783	25.2104	2300
19	4-Methylphenol	108	5.514	5.502	(1.097)	1175850	51.4564	4600

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	20 Naphthalene-d8	136	6.398	6.398	(1.000)	1409667	20.0000	
$	21 Nitrobenzene-d5	82	5.627	5.627	(0.879)	789895	30.2719	2700
	22 Nitrobenzene	77	5.651	5.650	(0.883)	652526	25.1767	2300
	23 Isophorone	82	5.918	5.917	(0.925)	1252010	25.7144	2300
	24 2-Nitrophenol	139	5.995	5.995	(0.937)	342960	28.3259	2500
	25 2,4-Dimethylphenol	122	6.072	6.072	(0.949)	600273	27.9231	2500
	26 Benzoic Acid	122	6.191	6.202	(0.968)	271550	22.5897	2000(R)
	27 Bis(2-Chloroethoxy)methane	93	6.167	6.167	(0.964)	736934	25.3395	2300
	28 2,4-Dichlorophenol	162	6.262	6.256	(0.979)	563903	26.6830	2400
	29 1,2,4-Trichlorobenzene	180	6.345	6.345	(0.992)	564864	24.7864	2200
	30 Naphthalene	128	6.422	6.416	(1.004)	1962375	25.7002	2300
	31 4-Chloroaniline	127	6.493	6.493	(1.015)	644549	20.4741	1800
	32 Hexachlorobutadiene	225	6.576	6.576	(1.028)	356831	25.2466	2300
	33 4-Chloro-3-methylphenol	107	7.028	7.027	(1.098)	698085	28.5559	2600
	34 2-Methylnaphthalene	142	7.164	7.164	(1.120)	1454666	27.9011	2500
*	35 Acenaphthene-d10	164	8.280	8.274	(1.000)	1053329	20.0000	
	38 2,4,6-Trichlorophenol	196	7.479	7.478	(0.903)	498020	28.4079	2600
	39 2,4,5-Trichlorophenol	196	7.508	7.514	(0.907)	549280	28.9940	2600
$	40 2-Fluorobiphenyl	172	7.568	7.567	(0.914)	1974618	31.0561	2800
	41 2-Chloronaphthalene	162	7.686	7.680	(0.928)	1488376	27.0353	2400
	42 2-Nitroaniline	65	7.799	7.799	(0.942)	543169	31.1770	2800
	43 Acenaphthylene	152	8.126	8.119	(0.981)	2494577	26.6937	2400
	44 Dimethylphthalate	163	8.013	8.007	(0.968)	1914055	28.6682	2600
	45 2,6-Dinitrotoluene	165	8.066	8.060	(0.974)	453940	31.6571	2800
	46 Acenaphthene	153	8.315	8.309	(1.004)	1560187	27.4999	2500
	47 3-Nitroaniline	138	8.238	8.238	(0.995)	494318	28.7135	2600
	48 2,4-Dinitrophenol	184	8.351	8.345	(1.009)	108895	23.3165	2100
	49 Dibenzofuran	168	8.499	8.493	(1.027)	2314883	27.7180	2500
	50 2,4-Dinitrotoluene	165	8.494	8.487	(1.026)	614587	30.2340	2700
	51 4-Nitrophenol	109	8.428	8.428	(1.018)	269530	29.5379	2700(R)
	52 Fluorene	166	8.862	8.861	(1.070)	1968256	28.7912	2600
	53 4-Chlorophenyl-phenylether	204	8.873	8.867	(1.072)	914196	28.4535	2600
	54 Diethylphthalate	149	8.767	8.766	(1.059)	2021949	25.7589	2300
	55 4-Nitroaniline	138	8.891	8.891	(1.074)	558808	29.6288	2700
$	56 2,4,6-Tribromophenol	330	9.123	9.117	(1.102)	526504	54.8417	4900
*	57 Phenanthrene-d10	188	9.859	9.852	(1.000)	1757441	20.0000	
	58 4,6-Dinitro-2-methylphenol	198	8.927	8.921	(0.905)	229210	21.6776	1900
	59 N-Nitrosodiphenylamine (1)	169	8.998	8.998	(0.913)	1527800	30.5084	2700
	60 1,2-Diphenylhydrazine	77	9.040	9.039	(0.917)	2112840	29.2457	2600
	61 4-Bromophenyl-phenylether	248	9.390	9.390	(0.952)	569635	30.8849	2800
	62 Hexachlorobenzene	284	9.455	9.455	(0.959)	618275	31.1517	2800
	63 Pentachlorophenol	266	9.663	9.663	(0.980)	265123	22.0864	2000
	64 Phenanthrene	178	9.882	9.882	(1.002)	3088663	31.1600	2800
	65 Carbazole	167	10.114	10.108	(1.026)	2966582	30.0889	2700
	66 Anthracene	178	9.936	9.936	(1.008)	3120965	30.3163	2700
	67 Di-n-butylphthalate	149	10.500	10.499	(1.065)	3724043	31.3468	2800
	68 Fluoranthene	202	11.153	11.146	(1.131)	3526369	30.8505	2800
*	70 Chrysene-d12	240	12.814	12.808	(1.000)	1737665	20.0000	
	71 Benzidine	184	9.746	9.746	(0.761)	88874	37.7657	3400
	72 Pyrene	202	11.390	11.390	(0.889)	3654583	35.2974	3200
$	73 Terphenyl-d14	244	11.562	11.562	(0.902)	2852821	39.4592	3500
	74 Butylbenzylphthalate	149	12.108	12.108	(0.945)	1659137	34.6030	3100
	75 3,3'-Dichlorobenzidine	252	12.767	12.767	(0.996)	866411	28.1805	2500
	76 Benzo(a)anthracene	228	12.797	12.796	(0.999)	3292483	33.5023	3000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	77 Chrysene	228	12.850	12.850	(1.003)	2963472	31.2150	2800
	78 Bis(2-Ethylhexyl)phthalate	149	12.850	12.850	(1.003)	2241140	34.2643	3100
*	79 Perylene-d12	264	15.135	15.129	(1.000)	1094129	20.0000	
	80 Di-n-octylphthalate	149	13.829	13.829	(0.914)	3752060	43.3759	3900
	81 Benzo(b)fluoranthene	252	14.453	14.452	(0.955)	2742692	36.2261	3300
	82 Benzo(k)fluoranthene	252	14.500	14.500	(0.958)	2720434	33.0047	3000
	83 Benzo(a)pyrene	252	15.028	15.028	(0.993)	2145365	33.2542	3000
	84 Indeno(1,2,3-cd)pyrene	276	17.248	17.242	(1.140)	1805611	31.8913	2900
	85 Dibenzo(a,h)anthracene	278	17.302	17.301	(1.143)	1803492	29.9825	2700
	86 Benzo(g,h,i)perylene	276	17.800	17.794	(1.176)	1805692	29.3035	2600

QC Flag Legend

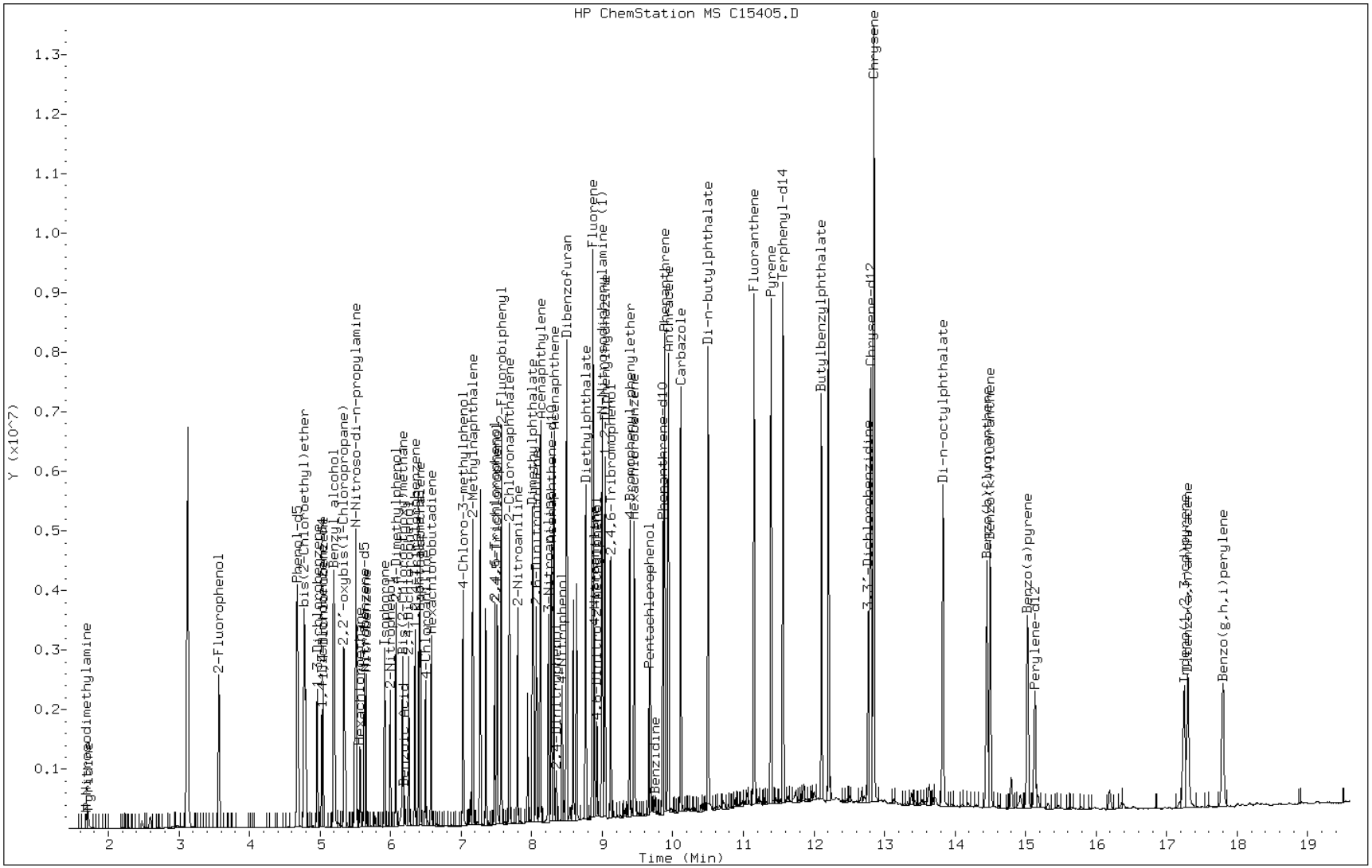
R - Spike/Surrogate failed recovery limits.

Data File: C15405.D

Date: 22-DEC-2009 19:15

Client ID: PBL-2-60-N(11') Instrument: msc.i

Sample Info: 220-11066-A-12-D MSD Operator: S.Jonas



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSA Start Date: 12/21/2009 13:16

Analysis Batch Number: 34520 End Date: 12/21/2009 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICIS 220-34520/1		12/21/2009 13:16	1	A9212.D	ZB-5MS 0.25(mm)
DFTPP 220-34520/4		12/21/2009 13:16	1	As9212.D	ZB-5MS 0.25(mm)
IC 220-34520/2		12/21/2009 13:44	1	A9213.D	ZB-5MS 0.25(mm)
IC 220-34520/3		12/21/2009 14:42	1	A9215.D	ZB-5MS 0.25(mm)
IC 220-34520/5		12/21/2009 15:10	1	A9216.D	ZB-5MS 0.25(mm)
IC 220-34520/6		12/21/2009 15:38	1	A9217.D	ZB-5MS 0.25(mm)
IC 220-34520/7		12/21/2009 16:07	1	A9218.D	ZB-5MS 0.25(mm)
IC 220-34520/8		12/21/2009 16:35	1		ZB-5MS 0.25(mm)
IC 220-34520/9		12/21/2009 17:04	1		ZB-5MS 0.25(mm)
IC 220-34520/10		12/21/2009 17:32	1		ZB-5MS 0.25(mm)
IC 220-34520/11		12/21/2009 17:59	1		ZB-5MS 0.25(mm)
IC 220-34520/12		12/21/2009 18:27	1		ZB-5MS 0.25(mm)
IC 220-34520/13		12/21/2009 18:55	1		ZB-5MS 0.25(mm)
ICV 220-34520/14		12/21/2009 19:23	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 19:51	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 20:20	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 20:48	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 21:16	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 21:44	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 22:12	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 22:40	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 23:37	20		ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSA Start Date: 12/23/2009 07:50

Analysis Batch Number: 34589 End Date: 12/23/2009 16:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 220-34589/1		12/23/2009 07:50	1	A9261.D	ZB-5MS 0.25(mm)
DFTPP 220-34589/4		12/23/2009 07:50	1	As9261.D	ZB-5MS 0.25(mm)
MB 220-34526/1-A		12/23/2009 08:21	1	A9262.D	ZB-5MS 0.25(mm)
LCS 220-34526/2-A		12/23/2009 08:50	1	A9263.D	ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 09:18	5		ZB-5MS 0.25(mm)
220-11066-6	PBL-1-30-E(9')	12/23/2009 10:44	20	A9267.D	ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 11:40	500		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 12:09	100		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 12:38	50		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 13:06	500		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 13:34	500		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 14:02	500		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 14:30	500		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 14:58	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 15:26	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 15:54	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 16:22	5		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2009 16:50	5		ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSC Start Date: 12/18/2009 14:30

Analysis Batch Number: 34464 End Date: 12/19/2009 02:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICIS 220-34464/1		12/18/2009 14:30	1	C15331.D	ZB-5MS 0.25(mm)
DFTPP 220-34464/4		12/18/2009 14:30	1	Cs15331.D	ZB-5MS 0.25(mm)
IC 220-34464/2		12/18/2009 15:01	1	C15332.D	ZB-5MS 0.25(mm)
IC 220-34464/3		12/18/2009 15:31	1	C15333.D	ZB-5MS 0.25(mm)
IC 220-34464/5		12/18/2009 16:01	1	C15334.D	ZB-5MS 0.25(mm)
IC 220-34464/6		12/18/2009 16:31	1	C15335.D	ZB-5MS 0.25(mm)
IC 220-34464/7		12/18/2009 17:02	1	C15336.D	ZB-5MS 0.25(mm)
ZZZZZ		12/18/2009 19:42	5		ZB-5MS 0.25(mm)
ZZZZZ		12/18/2009 20:13	50		ZB-5MS 0.25(mm)
ZZZZZ		12/18/2009 20:43	2		ZB-5MS 0.25(mm)
ZZZZZ		12/18/2009 21:45	5		ZB-5MS 0.25(mm)
ZZZZZ		12/18/2009 22:16	5		ZB-5MS 0.25(mm)
ZZZZZ		12/18/2009 22:47	5		ZB-5MS 0.25(mm)
ZZZZZ		12/18/2009 23:17	5		ZB-5MS 0.25(mm)
ZZZZZ		12/19/2009 00:17	5		ZB-5MS 0.25(mm)
ZZZZZ		12/19/2009 00:49	5		ZB-5MS 0.25(mm)
ZZZZZ		12/19/2009 01:19	5		ZB-5MS 0.25(mm)
ZZZZZ		12/19/2009 01:49	5		ZB-5MS 0.25(mm)
ZZZZZ		12/19/2009 02:20	5		ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSC Start Date: 12/21/2009 08:12

Analysis Batch Number: 34490 End Date: 12/21/2009 19:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 220-34490/1		12/21/2009 08:12	1	C15357.D	ZB-5MS 0.25(mm)
DFTPP 220-34490/9		12/21/2009 08:12	1	Cs15357.D	ZB-5MS 0.25(mm)
MB 220-34351/1-A		12/21/2009 08:44	1	C15358.D	ZB-5MS 0.25(mm)
LCS 220-34351/2-A		12/21/2009 09:14	1	C15359.D	ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 09:45	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 10:16	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 10:47	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 11:17	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 11:47	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 12:17	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 12:49	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 13:19	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 13:50	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 14:20	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 14:51	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 15:22	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 15:52	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 16:22	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 16:52	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 17:23	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 17:54	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 18:24	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 18:55	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 19:25	1		ZB-5MS 0.25(mm)
ZZZZZ		12/21/2009 19:56	1		ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSC Start Date: 12/22/2009 07:51

Analysis Batch Number: 34531 End Date: 12/22/2009 19:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 220-34531/1		12/22/2009 07:51	1	C15383.D	ZB-5MS 0.25(mm)
DFTPP 220-34531/7		12/22/2009 07:51	1	Cs15383.D	ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 08:25	1		ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 08:57	1		ZB-5MS 0.25(mm)
MB 220-34355/1-A		12/22/2009 09:28	1	C15386.D	ZB-5MS 0.25(mm)
LCS 220-34355/2-A		12/22/2009 09:59	1	C15387.D	ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 10:30	5		ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 11:02	1		ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 11:33	1		ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 12:05	1		ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 12:36	1		ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 13:07	1		ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 13:39	2		ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 14:10	2		ZB-5MS 0.25(mm)
220-11066-13	PBL-8-60-S(12')	12/22/2009 15:11	1	C15397.D	ZB-5MS 0.25(mm)
220-11066-7	PBL-1-30-E(9') F.D.	12/22/2009 15:42	10	C15398.D	ZB-5MS 0.25(mm)
220-11066-8	PBL-2-60-E(4')	12/22/2009 16:13	1	C15399.D	ZB-5MS 0.25(mm)
220-11066-9	PBL-2-60-E(4') F.D.	12/22/2009 16:43	1	C15400.D	ZB-5MS 0.25(mm)
220-11066-10	PBL-2-30-N(10')	12/22/2009 17:14	1	C15401.D	ZB-5MS 0.25(mm)
220-11066-11	PBL-2-30-N(10') F.D.	12/22/2009 17:44	1	C15402.D	ZB-5MS 0.25(mm)
220-11066-12	PBL-2-60-N(11')	12/22/2009 18:15	1	C15403.D	ZB-5MS 0.25(mm)
220-11066-12 MS	PBL-2-60-N(11') MS	12/22/2009 18:45	1	C15404.D	ZB-5MS 0.25(mm)
220-11066-12 MSD	PBL-2-60-N(11') MSD	12/22/2009 19:15	1	C15405.D	ZB-5MS 0.25(mm)
ZZZZZ		12/22/2009 19:45	1		ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MSZ Start Date: 12/21/2009 07:33

Analysis Batch Number: 34488 End Date: 12/21/2009 20:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICIS 220-34488/1		12/21/2009 07:33	1	Z14560.D	RXi-5MS 0.25(mm)
DFTPP 220-34488/10		12/21/2009 07:33	1	Zs14560.D	RXi-5MS 0.25(mm)
IC 220-34488/2		12/21/2009 08:01	1	Z14561.D	RXi-5MS 0.25(mm)
IC 220-34488/3		12/21/2009 08:30	1	Z14562.D	RXi-5MS 0.25(mm)
IC 220-34488/4		12/21/2009 08:58	1	Z14563.D	RXi-5MS 0.25(mm)
IC 220-34488/5		12/21/2009 09:26	1	Z14564.D	RXi-5MS 0.25(mm)
IC 220-34488/6		12/21/2009 09:54	1	Z14565.D	RXi-5MS 0.25(mm)
MB 220-34329/1-A		12/21/2009 10:53	1	Z14567.D	RXi-5MS 0.25(mm)
LCS 220-34329/2-A		12/21/2009 11:20	1	Z14568.D	RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 11:48	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 12:16	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 12:45	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 13:14	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 13:42	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 14:11	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 14:40	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 15:08	1		RXi-5MS 0.25(mm)
220-11066-14	FB-1	12/21/2009 15:36	1	Z14577.D	RXi-5MS 0.25(mm)
220-11066-15	FB-2	12/21/2009 16:04	1	Z14578.D	RXi-5MS 0.25(mm)
220-11066-16	FB-3	12/21/2009 16:33	1	Z14579.D	RXi-5MS 0.25(mm)
220-11066-1	PBL-5-10-E(4')	12/21/2009 17:02	1	Z14580.D	RXi-5MS 0.25(mm)
220-11066-2	PBL-5-2-W(7')	12/21/2009 17:30	1	Z14581.D	RXi-5MS 0.25(mm)
220-11066-3	PBL-5-5-N(6')	12/21/2009 17:58	1	Z14582.D	RXi-5MS 0.25(mm)
220-11066-4	PBL-5-10-N(5')	12/21/2009 18:26	1	Z14583.D	RXi-5MS 0.25(mm)
220-11066-5	PBL-5-10-S(2')	12/21/2009 18:55	10	Z14584.D	RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 19:23	10		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 19:51	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 20:20	1		RXi-5MS 0.25(mm)
ZZZZZ		12/21/2009 20:48	2		RXi-5MS 0.25(mm)

Organic Prep Worksheet

Batch Number: 220-34329
Method: 3510C
Analyst: Faiella, Tim

Date Open: Dec 16 2009 10:10AM
Batch End: Dec 17 2009 7:06PM

Lab ID	Client ID	Method Chain	Basis	pH of the sample at receipt	Initial weight/volume of sample	Final weight/volume of sample	pH of the sample after first adjustment	pH of the sample after the second adjust	EWBNAFMS_00031
MB~220-34329/1		3510C, 8270C		7	1000 mL	1 mL	2	12	
LCS~220-34329/2		3510C, 8270C		7	1000 mL	1 mL	2	12	400 uL
220-11043-B-1	Tank #2		T	7	950 mL	1 mL	2	12	
220-11053-A-1	MW-103A		T	7	960 mL	1 mL	2	12	
220-11053-B-1~MS	MW-103A		T	7	820 mL	1 mL	2	12	400 uL
220-11053-B-1~MSD	MW-103A		T	7	910 mL	1 mL	2	12	400 uL
220-11053-B-2	MW-105A		T	7	960 mL	1 mL	2	12	
220-11053-A-3	MW-106A		T	7	930 mL	1 mL	2	12	
220-11053-B-4	MW-104B		T	7	940 mL	1 mL	2	12	
220-11053-J-5	121109-DUP-1		T	7	910 mL	1 mL	2	12	
220-11053-C-7	PS34-SUMP-1		T	7	920 mL	1 mL	2	12	
220-11065-A-1	MW-103		T	7	830 mL	1 mL	2	12	
220-11065-A-2	MW-102		T	7	960 mL	1 mL	2	12	
220-11065-B-3	MW-106		T	7	1000 mL	1 mL	2	12	
220-11065-A-4	MW-8		T	7	1000 mL	1 mL	2	12	
220-11065-B-5	MW-101		T	6	960 mL	1 mL	2	12	
220-11065-A-6	DUPLICATE		T	6	1000 mL	1 mL	2	12	
220-11065-B-7	MW-105		T	6	960 mL	1 mL	2	12	
220-11065-B-8	Field Blank		T	5	960 mL	1 mL	2	12	
220-11066-A-14	FB-1	3510C, 8270C	T	5	1000 mL	1 mL	2	12	
220-11066-B-15	FB-2	3510C, 8270C	T	5	1000 mL	1 mL	2	12	
220-11066-A-16	FB-3	3510C, 8270C	T	5	1000 mL	1 mL	2	12	
220-11053-B-7-A	PS34-SUMP-1		D	7	1000 mL	1 mL	2	12	

Organic Prep Worksheet

Batch Number: 220-34329
Method: 3510C
Analyst: Faiella, Tim

Date Open: Dec 16 2009 10:10AM
Batch End: Dec 17 2009 7:06PM

Lab ID	Client ID	Method Chain	Basis	EWBNASUR_00052	EWRCPLCS_00008
MB~220-34329/1		3510C, 8270C		500 uL	
LCS~220-34329/2		3510C, 8270C		500 uL	400 uL
220-11043-B-1	Tank #2		T	500 uL	
220-11053-A-1	MW-103A		T	500 uL	
220-11053-B-1~MS	MW-103A		T	500 uL	400 uL
220-11053-B-1~MSD	MW-103A		T	500 uL	400 uL
220-11053-B-2	MW-105A		T	500 uL	
220-11053-A-3	MW-106A		T	500 uL	
220-11053-B-4	MW-104B		T	500 uL	
220-11053-J-5	121109-DUP-1		T	500 uL	
220-11053-C-7	PS34-SUMP-1		T	500 uL	
220-11065-A-1	MW-103		T	500 uL	
220-11065-A-2	MW-102		T	500 uL	
220-11065-B-3	MW-106		T	500 uL	
220-11065-A-4	MW-8		T	500 uL	
220-11065-B-5	MW-101		T	500 uL	
220-11065-A-6	DUPLICATE		T	500 uL	
220-11065-B-7	MW-105		T	500 uL	
220-11065-B-8	Field Blank		T	500 uL	
220-11066-A-14	FB-1	3510C, 8270C	T	500 uL	
220-11066-B-15	FB-2	3510C, 8270C	T	500 uL	
220-11066-A-16	FB-3	3510C, 8270C	T	500 uL	
220-11053-B-7-A	PS34-SUMP-1		D	500 uL	

Person's name who did the prep:	tim faiella
Prep Solvent Name:	mecl2
Prep Solvent Lot #:	ecmecl2-34
Prep Solvent Volume Used:	360 mL
Person's name who witnessed reagent drop:	self
Acid used for pH adjustment:	h2so4
Acid used for pH adjust Lot #:	wsulfacd-05
Base used for pH adjustment:	naoh
Base used for pH adjust Lot #:	enaoh-14
Person's name who did the concentration:	Eon Lynch
Na2SO4 Lot Number:	ena2so4-17

Organic Prep Worksheet

Batch Number: 220-34351
Method: 3541
Analyst: Capece, Jennifer

Date Open: Dec 16 2009 3:22PM
Batch End: Dec 17 2009 11:50AM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	EWBNAFMS_00031	EWBNASUR_00052	EWRCPLCS_00008
MB~220-34351/1		3541, 8270C		15.0 g	1.0 mL		500 uL	
LCS~220-34351/2		3541, 8270C		15.0 g	1.0 mL	400 uL	500 uL	400 uL
220-11050-B-1	D6/0-9		T	15.01 g	1.0 mL		500 uL	
220-11050-B-6	D6/9-17		T	15.24 g	1.0 mL		500 uL	
220-11050-B-11	D6/17-25		T	15.46 g	1.0 mL		500 uL	
220-11050-B-16	F6/2-10		T	15.21 g	1.0 mL		500 uL	
220-11050-B-21	F6/10-18		T	15.32 g	1.0 mL		500 uL	
220-11050-B-26	F6/18-26		T	15.24 g	1.0 mL		500 uL	
220-11050-B-31	G6/0-2		T	15.28 g	1.0 mL		500 uL	
220-11061-B-20	BP-6		T	15.42 g	2.0 mL		500 uL	
220-11066-A-1	PBL-5-10-E(4')	3541, 8270C	T	15.26 g	1.0 mL		500 uL	
220-11066-A-2	PBL-5-2-W(7')	3541, 8270C	T	15.11 g	1.0 mL		500 uL	
220-11066-A-3	PBL-5-5-N(6')	3541, 8270C	T	15.18 g	1.0 mL		500 uL	
220-11066-A-4	PBL-5-10-N(5')	3541, 8270C	T	15.13 g	1.0 mL		500 uL	
220-11066-A-5	PBL-5-10-S(2')	3541, 8270C	T	15.12 g	1.0 mL		500 uL	
220-11066-A-6	PBL-1-30-E(9')		T	15.11 g	1.0 mL		500 uL	
220-11066-A-7	PBL-1-30-E(9') F.D.	3541, 8270C	T	15.16 g	1.0 mL		500 uL	
220-11066-A-8	PBL-2-60-E(4')	3541, 8270C	T	15.33 g	1.0 mL		500 uL	
220-11066-A-9	PBL-2-60-E(4') F.D.	3541, 8270C	T	15.08 g	1.0 mL		500 uL	
220-11066-A-10	PBL-2-30-N(10')	3541, 8270C	T	15.25 g	1.0 mL		500 uL	
220-11066-A-11	PBL-2-30-N(10') F.D.	3541, 8270C	T	15.23 g	1.0 mL		500 uL	
220-11066-A-12	PBL-2-60-N(11')	3541, 8270C	T	15.05 g	1.0 mL		500 uL	
220-11066-A-12~MS		3541, 8270C	T	15.00 g	1.0 mL	400 uL	500 uL	400 uL
220-11066-A-12~MS D		3541, 8270C	T	15.02 g	1.0 mL	400 uL	500 uL	400 uL

Person's name who did the prep:	Jen Capece
Person's name who witnessed reagent drop:	Self
First End time:	18:00
Balance ID:	35452
Person's name who did the concentration:	Jen Capece
Na2SO4 Lot Number:	ena2so4_17
Solvent:	mecl2:acetone 1:1
Vendor lot number:	ecmecl2ace_32

Organic Prep Worksheet

Batch Number: 220-34355
Method: 3541
Analyst: Capece, Jennifer

Date Open: Dec 16 2009 4:43PM
Batch End: Dec 17 2009 2:35PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	EWBNAFMS_00031	EWBNASUR_00052	EWRCPLCS_00008
MB~220-34355/1		3541, 8270C		15.0 g	1.0 mL		500 uL	
LCS~220-34355/2		3541, 8270C		15.0 g	1.0 mL	400 uL	500 uL	400 uL
220-11066-A-13	PBL-8-60-S(12')	3541, 8270C	T	15.25 g	1.0 mL		500 uL	

Person's name who did the prep: Jen Capece
Person's name who witnessed reagent drop: self
First End time: 19:00
Balance ID: 35452
Person's name who did the concentration: Jen Capece
Na2SO4 Lot Number: ena2so4_17
Solvent: mecl2:acetone 1:1
Vendor lot number: ecmecl2ace_32

Organic Prep Worksheet

Batch Number: 220-34526
Method: 3541
Analyst: Faiella, Tim

Date Open: Dec 22 2009 10:17AM
Batch End: Dec 22 2009 1:30PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	EWBNAFMS_00032	EWBNASUR_00052	EWRCPLCS_00008
MB~220-34526/1		3541, 8270C		7.50 g	.5 mL		250 uL	
LCS~220-34526/2		3541, 8270C		7.50 g	.5 mL	200 uL	250 uL	200 uL
220-11066-A-6	PBL-1-30-E(9')	3541, 8270C	T	7.53 g	.5 mL		250 uL	

Person's name who did the prep: tim faiella
Person's name who witnessed reagent drop: self
Person's name who did the concentration: Jen Capece
Na2SO4 Lot Number: ena2so4-18
Solvent: 1:1 mecl2:Acetone
Vendor lot number: ecmecl2-35:ebacetone-15

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Connecticut Job Number: 220-11066-1

SDG No.:

Project: Con Edison, Kent Avenue Generating

Client Sample ID	Lab Sample ID
PBL-5-10-E(4')	220-11066-1
PBL-5-2-W(7')	220-11066-2
PBL-5-5-N(6')	220-11066-3
PBL-5-10-N(5')	220-11066-4
PBL-5-10-S(2')	220-11066-5
PBL-1-30-E(9')	220-11066-6
PBL-1-30-E(9') F.D.	220-11066-7
PBL-2-60-E(4')	220-11066-8
PBL-2-60-E(4') F.D.	220-11066-9
PBL-2-30-N(10')	220-11066-10
PBL-2-30-N(10') F.D.	220-11066-11
PBL-2-60-N(11')	220-11066-12
PBL-8-60-S(12')	220-11066-13
FB-1	220-11066-14
FB-2	220-11066-15
FB-3	220-11066-16

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-5-10-E(4') Lab Sample ID: 220-11066-1

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/14/2009 10:05

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 81.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.15	0.52	0.10	mg/Kg	J		1	6020
7429-90-5	Aluminum	10300	26.1	5.2	mg/Kg			1	6020
7440-38-2	Arsenic	10.1	0.52	0.10	mg/Kg			1	6020
7440-39-3	Barium	66.4	0.52	0.16	mg/Kg			1	6020
7440-41-7	Beryllium	0.53	0.52	0.16	mg/Kg			1	6020
7440-70-2	Calcium	49100	52.2	15.7	mg/Kg			1	6020
7440-43-9	Cadmium	0.31	0.52	0.10	mg/Kg	J		1	6020
7440-48-4	Cobalt	9.6	0.52	0.10	mg/Kg			1	6020
7440-47-3	Chromium	14.7	1.0	0.21	mg/Kg			1	6020
7440-50-8	Copper	49.0	1.0	0.10	mg/Kg			1	6020
7439-89-6	Iron	18700	26.1	8.4	mg/Kg			1	6020
7440-09-7	Potassium	1040	52.2	5.2	mg/Kg			1	6020
7439-95-4	Magnesium	6810	52.2	5.2	mg/Kg			1	6020
7439-96-5	Manganese	384	1.3	0.21	mg/Kg			1	6020
7440-23-5	Sodium	258	52.2	17.2	mg/Kg			1	6020
7440-02-0	Nickel	18.6	0.52	0.10	mg/Kg			1	6020
7439-92-1	Lead	146	0.52	0.10	mg/Kg			1	6020
7440-36-0	Antimony	0.30	0.84	0.21	mg/Kg	J		1	6020
7782-49-2	Selenium	0.79	1.0	0.31	mg/Kg	J		1	6020
7440-28-0	Thallium	0.73	0.73	0.21	mg/Kg	U		1	6020
7440-62-2	Vanadium	20.3	0.52	0.10	mg/Kg			1	6020
7440-66-6	Zinc	167	5.2	0.52	mg/Kg			1	6020
7439-97-6	Mercury	0.13	0.061	0.0048	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-5-2-W(7') Lab Sample ID: 220-11066-2

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/14/2009 12:15

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 87.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	2.0	0.53	0.11	mg/Kg			1	6020
7429-90-5	Aluminum	3730	26.6	5.3	mg/Kg			1	6020
7440-38-2	Arsenic	8.2	0.53	0.11	mg/Kg			1	6020
7440-39-3	Barium	83.3	0.53	0.16	mg/Kg			1	6020
7440-41-7	Beryllium	0.21	0.53	0.16	mg/Kg	J		1	6020
7440-70-2	Calcium	18300	53.2	16.0	mg/Kg			1	6020
7440-43-9	Cadmium	0.99	0.53	0.11	mg/Kg			1	6020
7440-48-4	Cobalt	3.2	0.53	0.11	mg/Kg			1	6020
7440-47-3	Chromium	22.9	1.1	0.21	mg/Kg			1	6020
7440-50-8	Copper	85.3	1.1	0.11	mg/Kg			1	6020
7439-89-6	Iron	13600	26.6	8.5	mg/Kg			1	6020
7440-09-7	Potassium	541	53.2	5.3	mg/Kg			1	6020
7439-95-4	Magnesium	2550	53.2	5.3	mg/Kg			1	6020
7439-96-5	Manganese	203	1.3	0.21	mg/Kg			1	6020
7440-23-5	Sodium	193	53.2	17.6	mg/Kg			1	6020
7440-02-0	Nickel	13.5	0.53	0.11	mg/Kg			1	6020
7439-92-1	Lead	378	0.53	0.11	mg/Kg			1	6020
7440-36-0	Antimony	0.26	0.85	0.21	mg/Kg	J		1	6020
7782-49-2	Selenium	0.58	1.1	0.32	mg/Kg	J		1	6020
7440-28-0	Thallium	0.74	0.74	0.21	mg/Kg	U		1	6020
7440-62-2	Vanadium	11.3	0.53	0.11	mg/Kg			1	6020
7440-66-6	Zinc	231	5.3	0.53	mg/Kg			1	6020
7439-97-6	Mercury	0.90	0.055	0.0044	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-5-5-N(6') Lab Sample ID: 220-11066-3

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/14/2009 12:35

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 86.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.45	0.45	0.089	mg/Kg	U		1	6020
7429-90-5	Aluminum	12600	22.3	4.5	mg/Kg			1	6020
7440-38-2	Arsenic	4.3	0.45	0.089	mg/Kg			1	6020
7440-39-3	Barium	74.6	0.45	0.13	mg/Kg			1	6020
7440-41-7	Beryllium	0.63	0.45	0.13	mg/Kg			1	6020
7440-70-2	Calcium	3780	44.6	13.4	mg/Kg			1	6020
7440-43-9	Cadmium	0.45	0.45	0.089	mg/Kg	U		1	6020
7440-48-4	Cobalt	9.1	0.45	0.089	mg/Kg			1	6020
7440-47-3	Chromium	21.4	0.89	0.18	mg/Kg			1	6020
7440-50-8	Copper	19.9	0.89	0.089	mg/Kg			1	6020
7439-89-6	Iron	18900	22.3	7.1	mg/Kg			1	6020
7440-09-7	Potassium	2090	44.6	4.5	mg/Kg			1	6020
7439-95-4	Magnesium	4700	44.6	4.5	mg/Kg			1	6020
7439-96-5	Manganese	401	1.1	0.18	mg/Kg			1	6020
7440-23-5	Sodium	137	44.6	14.7	mg/Kg			1	6020
7440-02-0	Nickel	27.3	0.45	0.089	mg/Kg			1	6020
7439-92-1	Lead	57.0	0.45	0.089	mg/Kg			1	6020
7440-36-0	Antimony	0.71	0.71	0.18	mg/Kg	U		1	6020
7782-49-2	Selenium	1.4	0.89	0.27	mg/Kg			1	6020
7440-28-0	Thallium	0.62	0.62	0.18	mg/Kg	U		1	6020
7440-62-2	Vanadium	28.0	0.45	0.089	mg/Kg			1	6020
7440-66-6	Zinc	62.9	4.5	0.45	mg/Kg			1	6020
7439-97-6	Mercury	0.14	0.058	0.0046	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-5-10-N(5') Lab Sample ID: 220-11066-4

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/14/2009 12:45

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 87.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.52	0.52	0.10	mg/Kg	U		1	6020
7429-90-5	Aluminum	8860	25.9	5.2	mg/Kg			1	6020
7440-38-2	Arsenic	4.3	0.52	0.10	mg/Kg			1	6020
7440-39-3	Barium	49.5	0.52	0.16	mg/Kg			1	6020
7440-41-7	Beryllium	0.40	0.52	0.16	mg/Kg	J		1	6020
7440-70-2	Calcium	2330	51.8	15.5	mg/Kg			1	6020
7440-43-9	Cadmium	0.52	0.52	0.10	mg/Kg	U		1	6020
7440-48-4	Cobalt	8.0	0.52	0.10	mg/Kg			1	6020
7440-47-3	Chromium	14.4	1.0	0.21	mg/Kg			1	6020
7440-50-8	Copper	16.8	1.0	0.10	mg/Kg			1	6020
7439-89-6	Iron	14800	25.9	8.3	mg/Kg			1	6020
7440-09-7	Potassium	1140	51.8	5.2	mg/Kg			1	6020
7439-95-4	Magnesium	2840	51.8	5.2	mg/Kg			1	6020
7439-96-5	Manganese	386	1.3	0.21	mg/Kg			1	6020
7440-23-5	Sodium	87.5	51.8	17.1	mg/Kg			1	6020
7440-02-0	Nickel	19.5	0.52	0.10	mg/Kg			1	6020
7439-92-1	Lead	59.3	0.52	0.10	mg/Kg			1	6020
7440-36-0	Antimony	0.83	0.83	0.21	mg/Kg	U		1	6020
7782-49-2	Selenium	1.4	1.0	0.31	mg/Kg			1	6020
7440-28-0	Thallium	0.72	0.72	0.21	mg/Kg	U		1	6020
7440-62-2	Vanadium	20.0	0.52	0.10	mg/Kg			1	6020
7440-66-6	Zinc	49.7	5.2	0.52	mg/Kg			1	6020
7439-97-6	Mercury	0.035	0.057	0.0046	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-5-10-S(2') Lab Sample ID: 220-11066-5

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/14/2009 14:15

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 91.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.26	0.45	0.091	mg/Kg	J		1	6020
7429-90-5	Aluminum	6880	22.7	4.5	mg/Kg			1	6020
7440-38-2	Arsenic	6.5	0.45	0.091	mg/Kg			1	6020
7440-39-3	Barium	71.7	0.45	0.14	mg/Kg			1	6020
7440-41-7	Beryllium	0.35	0.45	0.14	mg/Kg	J		1	6020
7440-70-2	Calcium	42300	45.4	13.6	mg/Kg			1	6020
7440-43-9	Cadmium	2.4	0.45	0.091	mg/Kg			1	6020
7440-48-4	Cobalt	4.9	0.45	0.091	mg/Kg			1	6020
7440-47-3	Chromium	52.8	0.91	0.18	mg/Kg			1	6020
7440-50-8	Copper	74.7	0.91	0.091	mg/Kg			1	6020
7439-89-6	Iron	21300	22.7	7.3	mg/Kg			1	6020
7440-09-7	Potassium	822	45.4	4.5	mg/Kg			1	6020
7439-95-4	Magnesium	4410	45.4	4.5	mg/Kg			1	6020
7439-96-5	Manganese	350	1.1	0.18	mg/Kg			1	6020
7440-23-5	Sodium	234	45.4	15.0	mg/Kg			1	6020
7440-02-0	Nickel	53.4	0.45	0.091	mg/Kg			1	6020
7439-92-1	Lead	2040	0.45	0.091	mg/Kg			1	6020
7440-36-0	Antimony	0.62	0.73	0.18	mg/Kg	J		1	6020
7782-49-2	Selenium	0.78	0.91	0.27	mg/Kg	J		1	6020
7440-28-0	Thallium	0.64	0.64	0.18	mg/Kg	U		1	6020
7440-62-2	Vanadium	20.1	0.45	0.091	mg/Kg			1	6020
7440-66-6	Zinc	543	4.5	0.45	mg/Kg			1	6020
7439-97-6	Mercury	0.23	0.051	0.0041	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-1-30-E(9') Lab Sample ID: 220-11066-6

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/15/2009 09:10

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 84.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.42	0.42	0.084	mg/Kg	U		1	6020
7429-90-5	Aluminum	4470	21.1	4.2	mg/Kg			1	6020
7440-38-2	Arsenic	3.2	0.42	0.084	mg/Kg			1	6020
7440-39-3	Barium	25.1	0.42	0.13	mg/Kg			1	6020
7440-41-7	Beryllium	0.18	0.42	0.13	mg/Kg	J		1	6020
7440-70-2	Calcium	14500	42.2	12.7	mg/Kg			1	6020
7440-43-9	Cadmium	0.42	0.42	0.084	mg/Kg	U		1	6020
7440-48-4	Cobalt	3.2	0.42	0.084	mg/Kg			1	6020
7440-47-3	Chromium	7.2	0.84	0.17	mg/Kg			1	6020
7440-50-8	Copper	6.9	0.84	0.084	mg/Kg			1	6020
7439-89-6	Iron	8060	21.1	6.8	mg/Kg			1	6020
7440-09-7	Potassium	724	42.2	4.2	mg/Kg			1	6020
7439-95-4	Magnesium	3540	42.2	4.2	mg/Kg			1	6020
7439-96-5	Manganese	160	1.1	0.17	mg/Kg			1	6020
7440-23-5	Sodium	211	42.2	13.9	mg/Kg			1	6020
7440-02-0	Nickel	9.7	0.42	0.084	mg/Kg			1	6020
7439-92-1	Lead	12.8	0.42	0.084	mg/Kg			1	6020
7440-36-0	Antimony	0.68	0.68	0.17	mg/Kg	U		1	6020
7782-49-2	Selenium	0.62	0.84	0.25	mg/Kg	J		1	6020
7440-28-0	Thallium	0.59	0.59	0.17	mg/Kg	U		1	6020
7440-62-2	Vanadium	9.2	0.42	0.084	mg/Kg			1	6020
7440-66-6	Zinc	22.7	4.2	0.42	mg/Kg			1	6020
7439-97-6	Mercury	0.050	0.057	0.0046	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-1-30-E(9') F.D.
Lab Sample ID: 220-11066-7
Lab Name: TestAmerica Connecticut
Job No.: 220-11066-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/15/2009 09:10
Reporting Basis: DRY
Date Received: 12/15/2009 19:00
% Solids: 89.2

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.44	0.44	0.088	mg/Kg	U		1	6020
7429-90-5	Aluminum	4450	22.1	4.4	mg/Kg			1	6020
7440-38-2	Arsenic	3.4	0.44	0.088	mg/Kg			1	6020
7440-39-3	Barium	29.8	0.44	0.13	mg/Kg			1	6020
7440-41-7	Beryllium	0.16	0.44	0.13	mg/Kg	J		1	6020
7440-70-2	Calcium	18500	44.2	13.2	mg/Kg			1	6020
7440-43-9	Cadmium	0.44	0.44	0.088	mg/Kg	U		1	6020
7440-48-4	Cobalt	3.0	0.44	0.088	mg/Kg			1	6020
7440-47-3	Chromium	7.0	0.88	0.18	mg/Kg			1	6020
7440-50-8	Copper	7.1	0.88	0.088	mg/Kg			1	6020
7439-89-6	Iron	7320	22.1	7.1	mg/Kg			1	6020
7440-09-7	Potassium	790	44.2	4.4	mg/Kg			1	6020
7439-95-4	Magnesium	3700	44.2	4.4	mg/Kg			1	6020
7439-96-5	Manganese	154	1.1	0.18	mg/Kg			1	6020
7440-23-5	Sodium	231	44.2	14.6	mg/Kg			1	6020
7440-02-0	Nickel	8.4	0.44	0.088	mg/Kg			1	6020
7439-92-1	Lead	12.9	0.44	0.088	mg/Kg			1	6020
7440-36-0	Antimony	0.71	0.71	0.18	mg/Kg	U		1	6020
7782-49-2	Selenium	0.55	0.88	0.26	mg/Kg	J		1	6020
7440-28-0	Thallium	0.62	0.62	0.18	mg/Kg	U		1	6020
7440-62-2	Vanadium	9.3	0.44	0.088	mg/Kg			1	6020
7440-66-6	Zinc	26.1	4.4	0.44	mg/Kg			1	6020
7439-97-6	Mercury	0.062	0.053	0.0042	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-2-60-E(4') Lab Sample ID: 220-11066-8

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/15/2009 11:20

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 79.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.31	0.51	0.10	mg/Kg	J		1	6020
7429-90-5	Aluminum	8680	25.3	5.1	mg/Kg			1	6020
7440-38-2	Arsenic	449	0.51	0.10	mg/Kg			1	6020
7440-39-3	Barium	230	0.51	0.15	mg/Kg			1	6020
7440-41-7	Beryllium	1.4	0.51	0.15	mg/Kg			1	6020
7440-70-2	Calcium	34200	50.6	15.2	mg/Kg			1	6020
7440-43-9	Cadmium	1.5	0.51	0.10	mg/Kg			1	6020
7440-48-4	Cobalt	9.7	0.51	0.10	mg/Kg			1	6020
7440-47-3	Chromium	30.0	1.0	0.20	mg/Kg			1	6020
7440-50-8	Copper	197	1.0	0.10	mg/Kg			1	6020
7439-89-6	Iron	42800	25.3	8.1	mg/Kg			1	6020
7440-09-7	Potassium	1430	50.6	5.1	mg/Kg			1	6020
7439-95-4	Magnesium	6940	50.6	5.1	mg/Kg			1	6020
7439-96-5	Manganese	297	1.3	0.20	mg/Kg			1	6020
7440-23-5	Sodium	925	50.6	16.7	mg/Kg			1	6020
7440-02-0	Nickel	53.7	0.51	0.10	mg/Kg			1	6020
7439-92-1	Lead	312	0.51	0.10	mg/Kg			1	6020
7440-36-0	Antimony	1.7	0.81	0.20	mg/Kg			1	6020
7782-49-2	Selenium	8.6	1.0	0.30	mg/Kg			1	6020
7440-28-0	Thallium	2.0	0.71	0.20	mg/Kg			1	6020
7440-62-2	Vanadium	29.7	0.51	0.10	mg/Kg			1	6020
7440-66-6	Zinc	612	5.1	0.51	mg/Kg			1	6020
7439-97-6	Mercury	1.7	0.063	0.0050	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-2-60-E(4') F.D.
Lab Sample ID: 220-11066-9
Lab Name: TestAmerica Connecticut
Job No.: 220-11066-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/15/2009 11:20
Reporting Basis: DRY
Date Received: 12/15/2009 19:00
% Solids: 76.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.12	0.32	0.063	mg/Kg	J		1	6020
7429-90-5	Aluminum	2690	15.8	3.2	mg/Kg			1	6020
7440-38-2	Arsenic	106	0.32	0.063	mg/Kg			1	6020
7440-39-3	Barium	251	0.32	0.095	mg/Kg			1	6020
7440-41-7	Beryllium	0.39	0.32	0.095	mg/Kg			1	6020
7440-70-2	Calcium	12500	31.5	9.5	mg/Kg			1	6020
7440-43-9	Cadmium	0.53	0.32	0.063	mg/Kg			1	6020
7440-48-4	Cobalt	2.6	0.32	0.063	mg/Kg			1	6020
7440-47-3	Chromium	9.4	0.63	0.13	mg/Kg			1	6020
7440-50-8	Copper	59.9	0.63	0.063	mg/Kg			1	6020
7439-89-6	Iron	13800	15.8	5.0	mg/Kg			1	6020
7440-09-7	Potassium	394	31.5	3.2	mg/Kg			1	6020
7439-95-4	Magnesium	2640	31.5	3.2	mg/Kg			1	6020
7439-96-5	Manganese	81.2	0.79	0.13	mg/Kg			1	6020
7440-23-5	Sodium	297	31.5	10.4	mg/Kg			1	6020
7440-02-0	Nickel	13.3	0.32	0.063	mg/Kg			1	6020
7439-92-1	Lead	1670	0.32	0.063	mg/Kg			1	6020
7440-36-0	Antimony	0.27	0.50	0.13	mg/Kg	J		1	6020
7782-49-2	Selenium	2.9	0.63	0.19	mg/Kg			1	6020
7440-28-0	Thallium	0.58	0.44	0.13	mg/Kg			1	6020
7440-62-2	Vanadium	10.4	0.32	0.063	mg/Kg			1	6020
7440-66-6	Zinc	144	3.2	0.32	mg/Kg			1	6020
7439-97-6	Mercury	3.3	0.32	0.026	mg/Kg			5	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-2-30-N(10') Lab Sample ID: 220-11066-10

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/15/2009 12:00

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 76.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.32	0.32	0.065	mg/Kg	U		1	6020
7429-90-5	Aluminum	4210	16.2	3.2	mg/Kg			1	6020
7440-38-2	Arsenic	3.1	0.32	0.065	mg/Kg			1	6020
7440-39-3	Barium	19.8	0.32	0.097	mg/Kg			1	6020
7440-41-7	Beryllium	0.28	0.32	0.097	mg/Kg	J		1	6020
7440-70-2	Calcium	2010	32.4	9.7	mg/Kg			1	6020
7440-43-9	Cadmium	0.098	0.32	0.065	mg/Kg	J		1	6020
7440-48-4	Cobalt	3.8	0.32	0.065	mg/Kg			1	6020
7440-47-3	Chromium	8.4	0.65	0.13	mg/Kg			1	6020
7440-50-8	Copper	11.5	0.65	0.065	mg/Kg			1	6020
7439-89-6	Iron	9200	16.2	5.2	mg/Kg			1	6020
7440-09-7	Potassium	775	32.4	3.2	mg/Kg			1	6020
7439-95-4	Magnesium	1990	32.4	3.2	mg/Kg			1	6020
7439-96-5	Manganese	164	0.81	0.13	mg/Kg			1	6020
7440-23-5	Sodium	1280	32.4	10.7	mg/Kg			1	6020
7440-02-0	Nickel	8.3	0.32	0.065	mg/Kg			1	6020
7439-92-1	Lead	37.0	0.32	0.065	mg/Kg			1	6020
7440-36-0	Antimony	0.15	0.52	0.13	mg/Kg	J		1	6020
7782-49-2	Selenium	0.49	0.65	0.19	mg/Kg	J		1	6020
7440-28-0	Thallium	0.45	0.45	0.13	mg/Kg	U		1	6020
7440-62-2	Vanadium	12.4	0.32	0.065	mg/Kg			1	6020
7440-66-6	Zinc	43.6	3.2	0.32	mg/Kg			1	6020
7439-97-6	Mercury	0.050	0.062	0.0050	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-2-30-N(10') F.D.
Lab Sample ID: 220-11066-11
Lab Name: TestAmerica Connecticut
Job No.: 220-11066-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/15/2009 12:00
Reporting Basis: DRY
Date Received: 12/15/2009 19:00
% Solids: 80.2

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.30	0.30	0.061	mg/Kg	U		1	6020
7429-90-5	Aluminum	5210	15.2	3.0	mg/Kg			1	6020
7440-38-2	Arsenic	3.4	0.30	0.061	mg/Kg			1	6020
7440-39-3	Barium	30.6	0.30	0.091	mg/Kg			1	6020
7440-41-7	Beryllium	0.33	0.30	0.091	mg/Kg			1	6020
7440-70-2	Calcium	3100	30.4	9.1	mg/Kg			1	6020
7440-43-9	Cadmium	0.16	0.30	0.061	mg/Kg	J		1	6020
7440-48-4	Cobalt	5.0	0.30	0.061	mg/Kg			1	6020
7440-47-3	Chromium	11.7	0.61	0.12	mg/Kg			1	6020
7440-50-8	Copper	15.9	0.61	0.061	mg/Kg			1	6020
7439-89-6	Iron	12900	15.2	4.9	mg/Kg			1	6020
7440-09-7	Potassium	998	30.4	3.0	mg/Kg			1	6020
7439-95-4	Magnesium	2780	30.4	3.0	mg/Kg			1	6020
7439-96-5	Manganese	198	0.76	0.12	mg/Kg			1	6020
7440-23-5	Sodium	1610	30.4	10.0	mg/Kg			1	6020
7440-02-0	Nickel	11.6	0.30	0.061	mg/Kg			1	6020
7439-92-1	Lead	22.2	0.30	0.061	mg/Kg			1	6020
7440-36-0	Antimony	0.49	0.49	0.12	mg/Kg	U		1	6020
7782-49-2	Selenium	0.90	0.61	0.18	mg/Kg			1	6020
7440-28-0	Thallium	0.43	0.43	0.12	mg/Kg	U		1	6020
7440-62-2	Vanadium	17.1	0.30	0.061	mg/Kg			1	6020
7440-66-6	Zinc	66.6	3.0	0.30	mg/Kg			1	6020
7439-97-6	Mercury	0.047	0.058	0.0046	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-2-60-N(11') Lab Sample ID: 220-11066-12

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/15/2009 12:15

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 74.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.34	0.34	0.067	mg/Kg	U		1	6020
7429-90-5	Aluminum	5700	16.9	3.4	mg/Kg			1	6020
7440-38-2	Arsenic	3.8	0.34	0.067	mg/Kg			1	6020
7440-39-3	Barium	13.9	0.34	0.10	mg/Kg			1	6020
7440-41-7	Beryllium	0.24	0.34	0.10	mg/Kg	J		1	6020
7440-70-2	Calcium	2870	33.7	10.1	mg/Kg			1	6020
7440-43-9	Cadmium	0.34	0.34	0.067	mg/Kg	U		1	6020
7440-48-4	Cobalt	4.4	0.34	0.067	mg/Kg			1	6020
7440-47-3	Chromium	9.9	0.67	0.13	mg/Kg			1	6020
7440-50-8	Copper	8.0	0.67	0.067	mg/Kg			1	6020
7439-89-6	Iron	11300	16.9	5.4	mg/Kg			1	6020
7440-09-7	Potassium	1070	33.7	3.4	mg/Kg			1	6020
7439-95-4	Magnesium	2800	33.7	3.4	mg/Kg			1	6020
7439-96-5	Manganese	156	0.84	0.13	mg/Kg			1	6020
7440-23-5	Sodium	615	33.7	11.1	mg/Kg			1	6020
7440-02-0	Nickel	10.1	0.34	0.067	mg/Kg			1	6020
7439-92-1	Lead	9.9	0.34	0.067	mg/Kg			1	6020
7440-36-0	Antimony	0.54	0.54	0.13	mg/Kg	U		1	6020
7782-49-2	Selenium	0.69	0.67	0.20	mg/Kg			1	6020
7440-28-0	Thallium	0.47	0.47	0.13	mg/Kg	U		1	6020
7440-62-2	Vanadium	14.6	0.34	0.067	mg/Kg			1	6020
7440-66-6	Zinc	36.4	3.4	0.34	mg/Kg			1	6020
7439-97-6	Mercury	0.048	0.062	0.0050	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: PBL-8-60-S(12') Lab Sample ID: 220-11066-13

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Solid Date Sampled: 12/15/2009 12:30

Reporting Basis: DRY Date Received: 12/15/2009 19:00

% Solids: 81.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.30	0.30	0.060	mg/Kg	U		1	6020
7429-90-5	Aluminum	8650	15.0	3.0	mg/Kg			1	6020
7440-38-2	Arsenic	63.7	0.30	0.060	mg/Kg			1	6020
7440-39-3	Barium	89.3	0.30	0.090	mg/Kg			1	6020
7440-41-7	Beryllium	0.41	0.30	0.090	mg/Kg			1	6020
7440-70-2	Calcium	20700	30.0	9.0	mg/Kg			1	6020
7440-43-9	Cadmium	0.41	0.30	0.060	mg/Kg			1	6020
7440-48-4	Cobalt	2.7	0.30	0.060	mg/Kg			1	6020
7440-47-3	Chromium	11.2	0.60	0.12	mg/Kg			1	6020
7440-50-8	Copper	64.7	0.60	0.060	mg/Kg			1	6020
7439-89-6	Iron	11200	15.0	4.8	mg/Kg			1	6020
7440-09-7	Potassium	1180	30.0	3.0	mg/Kg			1	6020
7439-95-4	Magnesium	2730	30.0	3.0	mg/Kg			1	6020
7439-96-5	Manganese	130	0.75	0.12	mg/Kg			1	6020
7440-23-5	Sodium	1100	30.0	9.9	mg/Kg			1	6020
7440-02-0	Nickel	11.9	0.30	0.060	mg/Kg			1	6020
7439-92-1	Lead	123	0.30	0.060	mg/Kg			1	6020
7440-36-0	Antimony	0.13	0.48	0.12	mg/Kg	J		1	6020
7782-49-2	Selenium	1.7	0.60	0.18	mg/Kg			1	6020
7440-28-0	Thallium	0.46	0.42	0.12	mg/Kg			1	6020
7440-62-2	Vanadium	19.6	0.30	0.060	mg/Kg			1	6020
7440-66-6	Zinc	139	3.0	0.30	mg/Kg			1	6020
7439-97-6	Mercury	0.49	0.056	0.0045	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB-1 Lab Sample ID: 220-11066-14

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Water Date Sampled: 12/15/2009 15:00

Reporting Basis: WET Date Received: 12/15/2009 19:00

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	2.5	2.5	0.50	ug/L	U		1	6020
7429-90-5	Aluminum	125	125	25.0	ug/L	U		1	6020
7440-38-2	Arsenic	2.5	2.5	0.50	ug/L	U		1	6020
7440-39-3	Barium	2.5	2.5	0.50	ug/L	U		1	6020
7440-41-7	Beryllium	2.5	2.5	0.50	ug/L	U		1	6020
7440-70-2	Calcium	54.6	250	50.0	ug/L	J		1	6020
7440-43-9	Cadmium	2.5	2.5	0.50	ug/L	U		1	6020
7440-48-4	Cobalt	2.5	2.5	0.50	ug/L	U		1	6020
7440-47-3	Chromium	1.8	5.0	1.0	ug/L	J		1	6020
7440-50-8	Copper	5.0	5.0	0.50	ug/L	U		1	6020
7439-89-6	Iron	35.7	125	25.0	ug/L	J		1	6020
7440-09-7	Potassium	69.7	250	25.0	ug/L	J		1	6020
7439-95-4	Magnesium	250	250	25.0	ug/L	U		1	6020
7439-96-5	Manganese	6.0	6.0	1.0	ug/L	U		1	6020
7440-23-5	Sodium	78.4	250	50.0	ug/L	J		1	6020
7440-02-0	Nickel	2.5	2.5	0.50	ug/L	U		1	6020
7439-92-1	Lead	0.53	2.5	0.50	ug/L	J		1	6020
7440-36-0	Antimony	4.0	4.0	1.0	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	1.0	ug/L	U		1	6020
7440-28-0	Thallium	3.5	3.5	1.0	ug/L	U		1	6020
7440-62-2	Vanadium	0.82	2.5	0.50	ug/L	J		1	6020
7440-66-6	Zinc	25.0	25.0	2.5	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.060	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB-2 Lab Sample ID: 220-11066-15

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Water Date Sampled: 12/15/2009 14:25

Reporting Basis: WET Date Received: 12/15/2009 19:00

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	2.5	2.5	0.50	ug/L	U		1	6020
7429-90-5	Aluminum	125	125	25.0	ug/L	U		1	6020
7440-38-2	Arsenic	2.5	2.5	0.50	ug/L	U		1	6020
7440-39-3	Barium	2.5	2.5	0.50	ug/L	U		1	6020
7440-41-7	Beryllium	2.5	2.5	0.50	ug/L	U		1	6020
7440-70-2	Calcium	250	250	50.0	ug/L	U		1	6020
7440-43-9	Cadmium	2.5	2.5	0.50	ug/L	U		1	6020
7440-48-4	Cobalt	2.5	2.5	0.50	ug/L	U		1	6020
7440-47-3	Chromium	2.0	5.0	1.0	ug/L	J		1	6020
7440-50-8	Copper	5.0	5.0	0.50	ug/L	U		1	6020
7439-89-6	Iron	28.8	125	25.0	ug/L	J		1	6020
7440-09-7	Potassium	47.5	250	25.0	ug/L	J		1	6020
7439-95-4	Magnesium	250	250	25.0	ug/L	U		1	6020
7439-96-5	Manganese	6.0	6.0	1.0	ug/L	U		1	6020
7440-23-5	Sodium	53.5	250	50.0	ug/L	J		1	6020
7440-02-0	Nickel	2.5	2.5	0.50	ug/L	U		1	6020
7439-92-1	Lead	2.5	2.5	0.50	ug/L	U		1	6020
7440-36-0	Antimony	4.0	4.0	1.0	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	1.0	ug/L	U		1	6020
7440-28-0	Thallium	3.5	3.5	1.0	ug/L	U		1	6020
7440-62-2	Vanadium	0.83	2.5	0.50	ug/L	J		1	6020
7440-66-6	Zinc	25.0	25.0	2.5	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.060	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB-3 Lab Sample ID: 220-11066-16

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG ID.:

Matrix: Water Date Sampled: 12/15/2009 15:00

Reporting Basis: WET Date Received: 12/15/2009 19:00

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	2.5	2.5	0.50	ug/L	U		1	6020
7429-90-5	Aluminum	125	125	25.0	ug/L	U		1	6020
7440-38-2	Arsenic	2.5	2.5	0.50	ug/L	U		1	6020
7440-39-3	Barium	2.5	2.5	0.50	ug/L	U		1	6020
7440-41-7	Beryllium	2.5	2.5	0.50	ug/L	U		1	6020
7440-70-2	Calcium	250	250	50.0	ug/L	U		1	6020
7440-43-9	Cadmium	2.5	2.5	0.50	ug/L	U		1	6020
7440-48-4	Cobalt	2.5	2.5	0.50	ug/L	U		1	6020
7440-47-3	Chromium	2.2	5.0	1.0	ug/L	J		1	6020
7440-50-8	Copper	2.5	5.0	0.50	ug/L	J		1	6020
7439-89-6	Iron	125	125	25.0	ug/L	U		1	6020
7440-09-7	Potassium	45.1	250	25.0	ug/L	J		1	6020
7439-95-4	Magnesium	250	250	25.0	ug/L	U		1	6020
7439-96-5	Manganese	6.0	6.0	1.0	ug/L	U		1	6020
7440-23-5	Sodium	250	250	50.0	ug/L	U		1	6020
7440-02-0	Nickel	2.5	2.5	0.50	ug/L	U		1	6020
7439-92-1	Lead	2.5	2.5	0.50	ug/L	U		1	6020
7440-36-0	Antimony	4.0	4.0	1.0	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	1.0	ug/L	U		1	6020
7440-28-0	Thallium	3.5	3.5	1.0	ug/L	U		1	6020
7440-62-2	Vanadium	0.90	2.5	0.50	ug/L	J		1	6020
7440-66-6	Zinc	25.0	25.0	2.5	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.060	ug/L	U		1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: MCCVMS_00021 Concentration Units: ug/L

CCV Source: MCCVMS_00021

Analyte	ICV 220-34591/98 12/22/2009 14:04				CCV 220-34591/13 12/22/2009 16:00				CCV 220-34591/25 12/22/2009 16:47			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Ag	63.2		60.0	105	63.0		60.0	105	62.4		60.0	104
Al	3660		3500	105	3690		3500	105	3680		3500	105
As	199		200	100	202		200	101	200		200	100
Ba	58.7		60.0	98	58.7		60.0	98	58.1		60.0	97
Be	124		120	104	121		120	101	118		120	98
Ca	2520		2500	101	2540		2500	102	2550		2500	102
Cd	59.7		60.0	100	60.1		60.0	100	59.4		60.0	99
Co	62.3		60.0	104	63.3		60.0	106	62.5		60.0	104
Cr	60.1		60.0	100	58.7		60.0	98	58.7		60.0	98
Cu	61.6		60.0	103	62.4		60.0	104	61.3		60.0	102
Fe	1010		1000	101	991		1000	99	1000		1000	100
K	4120		4000	103	4140		4000	103	4170		4000	104
Mg	2590		2500	103	2620		2500	105	2590		2500	104
Mn	42.3		40.0	106	41.7		40.0	104	42.3		40.0	106
Na	2040		2000	102	2080		2000	104	2050		2000	102
Ni	60.1		60.0	100	60.8		60.0	101	60.0		60.0	100
Pb	205		200	103	203		200	102	205		200	103
Sb	213		200	107	205		200	103	204		200	102
Se	99.2		100	99	99.9		100	100	99.4		100	99
Tl	193		200	97	191		200	95	193		200	96
V	63.1		60.0	105	62.2		60.0	104	62.0		60.0	103
Zn	60.4		60.0	101	60.9		60.0	102	60.5		60.0	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: MCCVMS_00021 Concentration Units: ug/L

CCV Source: MCCVMS_00021

Analyte	CCV 220-34591/37 12/22/2009 17:32				CCV 220-34591/49 12/22/2009 18:19				CCV 220-34591/61 12/22/2009 19:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Ag	62.7		60.0	104	62.6		60.0	104	62.8		60.0	105
Al	3660		3500	105	3680		3500	105	3650		3500	104
As	200		200	100	203		200	102	206		200	103
Ba	58.0		60.0	97	57.6		60.0	96	57.4		60.0	96
Be	116		120	97	117		120	98	116		120	97
Ca	2510		2500	100	2540		2500	102	2520		2500	101
Cd	59.2		60.0	99	59.4		60.0	99	59.8		60.0	100
Co	62.4		60.0	104	63.7		60.0	106	65.5		60.0	109
Cr	58.2		60.0	97	58.2		60.0	97	58.6		60.0	98
Cu	61.4		60.0	102	62.3		60.0	104	63.9		60.0	107
Fe	1000		1000	100	998		1000	100	983		1000	98
K	4150		4000	104	4170		4000	104	4150		4000	104
Mg	2580		2500	103	2590		2500	104	2590		2500	104
Mn	41.4		40.0	103	42.0		40.0	105	41.4		40.0	103
Na	2040		2000	102	2060		2000	103	2080		2000	104
Ni	60.0		60.0	100	60.9		60.0	101	62.3		60.0	104
Pb	203		200	101	206		200	103	206		200	103
Sb	204		200	102	205		200	103	205		200	102
Se	97.8		100	98	98.7		100	99	99.8		100	100
Tl	190		200	95	195		200	98	193		200	96
V	61.6		60.0	103	61.9		60.0	103	61.2		60.0	102
Zn	61.0		60.0	102	61.6		60.0	103	63.1		60.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: MCCVMS_00021 Concentration Units: ug/L

CCV Source: MCCVMS_00021

Analyte	CCV 220-34591/73 12/22/2009 19:50											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Ag	63.7		60.0	106								
Al	3760		3500	108								
As	204		200	102								
Ba	57.7		60.0	96								
Be	119		120	99								
Ca	2560		2500	102								
Cd	59.8		60.0	100								
Co	64.0		60.0	107								
Cr	59.4		60.0	99								
Cu	62.9		60.0	105								
Fe	1020		1000	102								
K	4230		4000	106								
Mg	2660		2500	106								
Mn	42.2		40.0	106								
Na	2100		2000	105								
Ni	61.8		60.0	103								
Pb	206		200	103								
Sb	204		200	102								
Se	101		100	101								
Tl	191		200	96								
V	62.7		60.0	104								
Zn	61.7		60.0	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: MCCVMS_00021 Concentration Units: ug/L

CCV Source: MCCVMS_00021

Analyte	ICV 220-34609/1 12/23/2009 11:34				CCV 220-34609/6 12/23/2009 11:59				CCV 220-34609/18 12/23/2009 12:45			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Ag	63.2		60.0	105	63.2		60.0	105	63.4		60.0	106
Al	3700		3500	106	3690		3500	105	3740		3500	107
As	205		200	102	204		200	102	202		200	101
Ba	57.5		60.0	96	57.7		60.0	96	57.2		60.0	95
Be	127		120	106	119		120	99	120		120	100
Ca	2540		2500	102	2510		2500	101	2550		2500	102
Cd	59.6		60.0	99	59.5		60.0	99	59.2		60.0	99
Co	64.7		60.0	108	64.4		60.0	107	64.3		60.0	107
Cr	58.0		60.0	97	56.9		60.0	95	58.3		60.0	97
Cu	63.3		60.0	105	62.9		60.0	105	62.3		60.0	104
Fe	980		1000	98	962		1000	96	974		1000	97
K	4230		4000	106	4160		4000	104	4250		4000	106
Mg	2630		2500	105	2580		2500	103	2650		2500	106
Mn	41.5		40.0	104	40.3		40.0	101	41.5		40.0	104
Na	2120		2000	106	2080		2000	104	2120		2000	106
Ni	62.0		60.0	103	61.3		60.0	102	61.2		60.0	102
Pb	202		200	101	204		200	102	208		200	104
Sb	215		200	107	206		200	103	204		200	102
Se	99.1		100	99	98.3		100	98	97.4		100	97
Tl	192		200	96	192		200	96	194		200	97
V	61.9		60.0	103	60.4		60.0	101	61.5		60.0	103
Zn	62.4		60.0	104	61.9		60.0	103	61.4		60.0	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: MCCVMS_00021 Concentration Units: ug/L

CCV Source: MCCVMS_00021

Analyte	CCV 220-34609/30 12/23/2009 13:30											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Ag	62.3		60.0	104								
Al	3730		3500	107								
As	204		200	102								
Ba	57.5		60.0	96								
Be	123		120	103								
Ca	2550		2500	102								
Cd	59.5		60.0	99								
Co	63.6		60.0	106								
Cr	57.6		60.0	96								
Cu	62.4		60.0	104								
Fe	966		1000	97								
K	4240		4000	106								
Mg	2630		2500	105								
Mn	41.0		40.0	102								
Na	2120		2000	106								
Ni	60.9		60.0	101								
Pb	206		200	103								
Sb	203		200	101								
Se	99.0		100	99								
Tl	193		200	96								
V	61.5		60.0	102								
Zn	61.8		60.0	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: mhgicv_00412 Concentration Units: ug/L

CCV Source: mhgccv_00412

Analyte	ICV 220-34389/7 12/17/2009 13:46				CCV 220-34389/19 12/17/2009 13:59				CCV 220-34389/31 12/17/2009 14:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	5.30		5.00	106	4.90		5.00	98	4.99		5.00	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: mhgicv_00412 Concentration Units: ug/L

CCV Source: mhgccv_00412

Analyte	CCV 220-34389/39 12/17/2009 14:22											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	4.93		5.00	99								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: mhgicv_00413 Concentration Units: ug/L

CCV Source: mhgccv_00413

Analyte	ICV 220-34405/7 12/17/2009 16:07				CCV 220-34405/19 12/17/2009 16:18				CCV 220-34405/31 12/17/2009 16:31			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	5.22		5.00	104	5.00		5.00	100	5.05		5.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: mhgicv_00413 Concentration Units: ug/L

CCV Source: mhgccv_00413

Analyte	CCV 220-34405/40 12/17/2009 16:40											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	5.15		5.00	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: mhgicv_00415 Concentration Units: ug/L

CCV Source: mhgccv_00415

Analyte	ICV 220-34534/7 12/22/2009 10:41				CCV 220-34534/19 12/22/2009 10:54				CCV 220-34534/31 12/22/2009 11:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	5.43		5.00	109	5.20		5.00	104	5.21		5.00	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICV Source: mhgicv_00415 Concentration Units: ug/L

CCV Source: mhgccv_00415

Analyte	CCV 220-34534/55 12/22/2009 11:33				CCV 220-34534/67 12/22/2009 11:52				CCV 220-34534/70 12/22/2009 11:56			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	4.86		5.00	97	4.78		5.00	96	4.85		5.00	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Analysis Method: 6020 Instrument ID: ICPMS

Lab Sample ID: CRI 220-34591/100 Concentration Units: ug/L

CRQL Check Standard Source: MCRIMS_00017

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	0.500	0.569		114	70-130
Aluminum	25.5	33.8		133	70-130
Arsenic	0.500	0.478	J	96	70-130
Barium	0.500	0.489	J	98	70-130
Beryllium	0.500	0.554		111	70-130
Calcium	50.0	51.5		103	70-130
Cadmium	0.500	0.507		101	70-130
Cobalt	0.500	0.541		108	70-130
Chromium	0.500	0.570	J	114	70-130
Copper	0.500	0.403	J	81	70-130
Iron	25.0	25.5		102	70-130
Potassium	50.0	68.8		138	70-130
Magnesium	50.0	58.0		116	70-130
Manganese	0.500	0.522	J	104	70-130
Sodium	50.0	60.3		121	70-130
Nickel	0.500	0.512		102	70-130
Lead	0.500	0.520		104	70-130
Antimony	0.500	0.677	J	135	70-130
Selenium	1.00	1.22		122	70-130
Thallium	0.500	0.428	J	86	70-130
Vanadium	0.500	0.561		112	70-130
Zinc	4.50	4.36	J	97	70-130

Lab Sample ID: CRI 220-34609/3 Concentration Units: ug/L

CRQL Check Standard Source: MCRIMS_00017

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	0.500	0.536		107	70-130
Aluminum	25.5	36.4		143	70-130
Arsenic	0.500	0.558		112	70-130
Barium	0.500	0.503		101	70-130
Beryllium	0.500	0.570		114	70-130
Calcium	50.0	54.9		110	70-130
Cadmium	0.500	0.541		108	70-130
Cobalt	0.500	0.602		120	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Analysis Method: 6020 Instrument ID: ICPMS

Lab Sample ID: CRI 220-34609/3 Concentration Units: ug/L

CRQL Check Standard Source: MCRIMS_00017

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Chromium	0.500	0.492	J	98	70-130
Copper	0.500	0.416	J	83	70-130
Iron	25.0	27.7		111	70-130
Potassium	50.0	71.7		143	70-130
Magnesium	50.0	61.1		122	70-130
Manganese	0.500	0.466	J	93	70-130
Sodium	50.0	58.5		117	70-130
Nickel	0.500	0.519		104	70-130
Lead	0.500	0.528		106	70-130
Antimony	0.500	0.846		169	70-130
Selenium	1.00	0.920	J	92	70-130
Thallium	0.500	0.319	J	64	70-130
Vanadium	0.500	0.542		108	70-130
Zinc	4.50	4.67	J	104	70-130

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 220-34591/99 12/22/2009 14:12		CCB 220-34591/14 12/22/2009 16:07		CCB 220-34591/26 12/22/2009 16:53		CCB 220-34591/38 12/22/2009 17:39	
		Found	C	Found	C	Found	C	Found	C
Ag	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Al	25.0	25.0	U	25.0	U	25.0	U	25.0	U
As	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Ba	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Be	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Ca	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Cd	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Co	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Cr	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Cu	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Fe	25.0	25.0	U	25.0	U	25.0	U	5.34	J
K	50.0	50.0	U	50.0	U	50.0	U	6.42	J
Mg	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Mn	1.2	1.2	U	0.298	J	0.234	J	0.267	J
Na	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Ni	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Pb	0.50	0.50	U	0.50	U	0.148	J	0.144	J
Sb	0.80	0.973		0.370	J	0.505	J	0.273	J
Se	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Tl	0.70	0.70	U	0.70	U	0.70	U	0.70	U
V	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Zn	5.0	5.0	U	5.0	U	5.0	U	5.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 220-34591/50 12/22/2009 18:25		CCB 220-34591/62 12/22/2009 19:11		CCB 220-34591/74 12/22/2009 19:56			
		Found	C	Found	C	Found	C	Found	C
Ag	0.50	0.50	U	0.50	U	0.50	U		
Al	25.0	8.89	J	5.22	J	8.11	J		
As	0.50	0.124	J	0.50	U	0.127	J		
Ba	0.50	0.50	U	0.50	U	0.50	U		
Be	0.50	0.50	U	0.50	U	0.50	U		
Ca	50.0	50.0	U	50.0	U	50.0	U		
Cd	0.50	0.50	U	0.50	U	0.50	U		
Co	0.50	0.50	U	0.50	U	0.50	U		
Cr	1.0	1.0	U	1.0	U	1.0	U		
Cu	1.0	1.0	U	1.0	U	1.0	U		
Fe	25.0	11.3	J	7.06	J	11.7	J		
K	50.0	8.43	J	6.98	J	9.20	J		
Mg	50.0	50.0	U	50.0	U	50.0	U		
Mn	1.2	0.411	J	0.279	J	0.337	J		
Na	50.0	50.0	U	50.0	U	50.0	U		
Ni	0.50	0.50	U	0.50	U	0.50	U		
Pb	0.50	0.186	J	0.258	J	0.248	J		
Sb	0.80	0.476	J	0.303	J	0.416	J		
Se	1.0	1.0	U	1.0	U	1.0	U		
Tl	0.70	0.70	U	0.70	U	0.70	U		
V	0.50	0.50	U	0.50	U	0.50	U		
Zn	5.0	5.0	U	5.0	U	5.0	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 220-34609/2 12/23/2009 11:45		CCB 220-34609/7 12/23/2009 12:05		CCB 220-34609/19 12/23/2009 12:51		CCB 220-34609/31 12/23/2009 13:37	
		Found	C	Found	C	Found	C	Found	C
Ag	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Al	25.0	25.0	U	6.81	J	25.0	U	25.0	U
As	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Ba	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Be	0.50	0.110	J	0.112	J	0.50	U	0.50	U
Ca	50.0	50.0	U	13.4	J	50.0	U	50.0	U
Cd	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Co	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Cr	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Cu	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Fe	25.0	25.0	U	10.8	J	25.0	U	25.0	U
K	50.0	6.36	J	11.2	J	7.86	J	8.24	J
Mg	50.0	50.0	U	5.53	J	50.0	U	50.0	U
Mn	1.2	1.2	U	1.2	U	1.2	U	1.2	U
Na	50.0	50.0	U	12.4	J	50.0	U	50.0	U
Ni	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Pb	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Sb	0.80	0.660	J	0.554	J	0.377	J	0.391	J
Se	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Tl	0.70	0.70	U	0.70	U	0.70	U	0.70	U
V	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Zn	5.0	5.0	U	5.0	U	5.0	U	5.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 220-34389/8 12/17/2009 13:47		CCB 220-34389/20 12/17/2009 14:01		CCB 220-34389/32 12/17/2009 14:15		CCB 220-34389/40 12/17/2009 14:23	
		Found	C	Found	C	Found	C	Found	C
Hg	0.20	0.0749	J	0.20	U	0.20	U	0.0712	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 220-34405/8 12/17/2009 16:08		CCB 220-34405/20 12/17/2009 16:20		CCB 220-34405/32 12/17/2009 16:32		CCB 220-34405/41 12/17/2009 16:41	
		Found	C	Found	C	Found	C	Found	C
Hg	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 220-34534/8 12/22/2009 10:42		CCB 220-34534/20 12/22/2009 10:55		CCB 220-34534/32 12/22/2009 11:08		CCB 220-34534/56 12/22/2009 11:35	
		Found	C	Found	C	Found	C	Found	C
Hg	0.20	0.0798	J	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 220-34534/68 12/22/2009 11:54		CCB 220-34534/71 12/22/2009 11:57					
		Found	C	Found	C	Found	C	Found	C
Hg	0.20	0.20	U	0.20	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 220-34475/1-A

Instrument Code: ICPMS Batch No.: 34591

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.40	U		6020
7429-90-5	Aluminum	11.53	J		6020
7440-38-2	Arsenic	0.40	U		6020
7440-39-3	Barium	0.40	U		6020
7440-41-7	Beryllium	0.40	U		6020
7440-70-2	Calcium	40.0	U		6020
7440-43-9	Cadmium	0.40	U		6020
7440-48-4	Cobalt	0.40	U		6020
7440-47-3	Chromium	0.239	J		6020
7440-50-8	Copper	0.80	U		6020
7439-89-6	Iron	20.19			6020
7440-09-7	Potassium	6.89	J		6020
7439-95-4	Magnesium	40.0	U		6020
7439-96-5	Manganese	0.293	J		6020
7440-23-5	Sodium	40.0	U		6020
7440-02-0	Nickel	0.40	U		6020
7439-92-1	Lead	0.208	J		6020
7440-36-0	Antimony	0.64	U		6020
7782-49-2	Selenium	0.80	U		6020
7440-28-0	Thallium	0.56	U		6020
7440-62-2	Vanadium	0.112	J		6020
7440-66-6	Zinc	4.0	U		6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 220-34525/1-A

Instrument Code: ICPMS Batch No.: 34591

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.25	U		6020
7429-90-5	Aluminum	12.5	U		6020
7440-38-2	Arsenic	0.25	U		6020
7440-39-3	Barium	0.25	U		6020
7440-41-7	Beryllium	0.25	U		6020
7440-70-2	Calcium	25.0	U		6020
7440-43-9	Cadmium	0.25	U		6020
7440-48-4	Cobalt	0.25	U		6020
7440-47-3	Chromium	0.114	J		6020
7440-50-8	Copper	0.50	U		6020
7439-89-6	Iron	12.5	U		6020
7440-09-7	Potassium	2.93	J		6020
7439-95-4	Magnesium	25.0	U		6020
7439-96-5	Manganese	0.62	U		6020
7440-23-5	Sodium	9.34	J		6020
7440-02-0	Nickel	0.25	U		6020
7439-92-1	Lead	0.0510	J		6020
7440-36-0	Antimony	0.40	U		6020
7782-49-2	Selenium	0.50	U		6020
7440-28-0	Thallium	0.35	U		6020
7440-62-2	Vanadium	0.0530	J		6020
7440-66-6	Zinc	2.5	U		6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 220-34494/1-A

Instrument Code: ICPMS Batch No.: 34609

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	2.5	U		6020
7429-90-5	Aluminum	28.7	J		6020
7440-38-2	Arsenic	2.5	U		6020
7440-39-3	Barium	2.5	U		6020
7440-41-7	Beryllium	2.5	U		6020
7440-70-2	Calcium	60.2	J		6020
7440-43-9	Cadmium	2.5	U		6020
7440-48-4	Cobalt	2.5	U		6020
7440-47-3	Chromium	5.0	U		6020
7440-50-8	Copper	1.15	J		6020
7439-89-6	Iron	49.8	J		6020
7440-09-7	Potassium	74.2	J		6020
7439-95-4	Magnesium	250	U		6020
7439-96-5	Manganese	6.0	U		6020
7440-23-5	Sodium	81.7	J		6020
7440-02-0	Nickel	2.5	U		6020
7439-92-1	Lead	0.660	J		6020
7440-36-0	Antimony	1.05	J		6020
7782-49-2	Selenium	5.0	U		6020
7440-28-0	Thallium	3.5	U		6020
7440-62-2	Vanadium	2.5	U		6020
7440-66-6	Zinc	25.0	U		6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 220-34373/1-A

Instrument Code: MERC1 Batch No.: 34405

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 220-34334/1-A

Instrument Code: MERC1 Batch No.: 34389

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.050	U		7471A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 220-34466/1-A

Instrument Code: MERC1 Batch No.: 34534

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.050	U		7471A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: ICSA 220-34591/101 Instrument ID: ICPMS

Lab File ID: ICS Source: MICSAMS_00013

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Ag		**0.0371**	
Al	**20000**	**19680**	**98**
As		**0.0416**	
Ba		**0.0299**	
Be		**0.0093**	
Ca	**60000**	**51380**	**86**
Cd		**0.207**	
Co		**-0.0046**	
Cr		**0.537**	
Cu		**-0.0425**	
Fe	**50000**	**45800**	**92**
K	**20000**	**19700**	**98**
Mg	**20000**	**19320**	**97**
Mn		**0.278**	
Na	**50000**	**48730**	**97**
Ni		**0.359**	
Pb		**0.185**	
Sb		**0.251**	
Se		**-0.0961**	
Tl		**0.249**	
V		**0.0437**	
Zn		**0.483**	
B		*-0.744*	
Li		*0.161*	
Mo	*400*	*400*	*100*
Si		*4.57*	
Sn		*0.238*	
Sulfur	*20000*	*20130*	*101*
Th		*0.234*	
Ti	*400*	*402*	*101*
U		*0.0085*	
Zr		*4.74*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: ICSAB 220-34591/102 Instrument ID: ICPMS

Lab File ID: ICS Source: MICSABMS_00017

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Ag	**20.0**	**20.0**	**100**
Al	**20000**	**20010**	**100**
As	**10.0**	**10.2**	**102**
Ba	**50.0**	**44.1**	**88**
Be	**50.0**	**48.4**	**97**
Ca	**60000**	**52440**	**87**
Cd	**100**	**95.8**	**96**
Co	**50.0**	**50.3**	**101**
Cr	**50.0**	**48.2**	**96**
Cu	**50.0**	**47.8**	**96**
Fe	**50000**	**45900**	**92**
K	**20000**	**20140**	**101**
Mg	**20000**	**19700**	**98**
Mn	**50.0**	**50.3**	**101**
Na	**50000**	**49700**	**99**
Ni	**100**	**95.8**	**96**
Pb	**5.00**	**5.11**	**102**
Sb	**60.0**	**64.0**	**107**
Se	**5.00**	**4.85**	**97**
Tl	**10.0**	**9.60**	**96**
V	**50.0**	**51.6**	**103**
Zn	**100**	**94.5**	**94**
Mo	*400*	*404*	*101*
Sulfur	*20000*	*20480*	*102*
Ti	*400*	*408*	*102*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: ICSA 220-34609/4 Instrument ID: ICPMS

Lab File ID: ICS Source: MICSAMS_00013

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Ag		**0.167**	
Al	**20000**	**20210**	**101**
As		**0.0718**	
Ba		**0.0557**	
Be		**0.0293**	
Ca	**60000**	**52330**	**87**
Cd		**0.216**	
Co		**0.0080**	
Cr		**0.466**	
Cu		**-0.0147**	
Fe	**50000**	**44820**	**90**
K	**20000**	**20340**	**102**
Mg	**20000**	**20010**	**100**
Mn		**0.242**	
Na	**50000**	**50850**	**102**
Ni		**0.333**	
Pb		**0.118**	
Sb		**0.394**	
Se		**0.152**	
Tl		**-0.0985**	
V		**0.0668**	
Zn		**0.738**	
B		*0.591*	
Li		*0.246*	
Mo	*400*	*402*	*101*
Si		*-9.97*	
Sn		*0.311*	
Sulfur	*20000*	*21050*	*105*
Th		*0.452*	
Ti	*400*	*402*	*100*
U		*0.0331*	
Zr		*4.14*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Lab Sample ID: ICSAB 220-34609/5 Instrument ID: ICPMS

Lab File ID: ICS Source: MICSABMS_00016

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Ag	**20.0**	**20.0**	**100**
Al	**20000**	**20450**	**102**
As	**10.0**	**10.2**	**102**
Ba	**50.0**	**43.7**	**87**
Be	**50.0**	**49.2**	**98**
Ca	**60000**	**52630**	**88**
Cd	**100**	**94.5**	**95**
Co	**50.0**	**51.8**	**104**
Cr	**50.0**	**47.6**	**95**
Cu	**50.0**	**49.3**	**99**
Fe	**50000**	**44800**	**90**
K	**20000**	**20570**	**103**
Mg	**20000**	**20060**	**100**
Mn	**50.0**	**49.2**	**98**
Na	**50000**	**51080**	**102**
Ni	**100**	**97.8**	**98**
Pb	**5.00**	**5.02**	**100**
Sb	**60.0**	**63.4**	**106**
Se	**5.00**	**4.66**	**93**
Tl	**10.0**	**9.48**	**95**
V	**50.0**	**50.9**	**102**
Zn	**100**	**95.6**	**96**
Mo	*400*	*402*	*101*
Sulfur	*20000*	*20800*	*104*
Ti	*400*	*400*	*100*

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

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 220-34525/2-A

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

Sample Matrix: Solid LCS Source: MLCS3_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	75.0	76.13		102	80	120		6020
Aluminum	1500	1489		99	80	120		6020
Arsenic	250	252.6		101	80	120		6020
Barium	75.0	71.23		95	80	120		6020
Beryllium	25.0	24.05		96	80	120		6020
Calcium	7500	6956		93	80	120		6020
Cadmium	75.0	73.31		98	80	120		6020
Cobalt	75.0	78.05		104	80	120		6020
Chromium	75.0	71.77		96	80	120		6020
Copper	75.0	76.14		102	80	120		6020
Iron	6250	5653		90	80	120		6020
Potassium	5000	5081		102	80	120		6020
Magnesium	3750	3540		94	80	120		6020
Manganese	50.0	50.85		102	80	120		6020
Sodium	7500	7222		96	80	120		6020
Nickel	75.0	75.33		100	80	120		6020
Lead	250	250.1		100	80	120		6020
Antimony	250	251.1		100	80	120		6020
Selenium	125	125.3		100	80	120		6020
Thallium	250	227.2		91	80	120		6020
Vanadium	75.0	76.66		102	80	120		6020
Zinc	75.0	75.39		101	80	120		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 220-34475/2-A

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

Sample Matrix: Solid LCS Source: MLCS3_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	75.0	79.92		107	80	120		6020
Aluminum	1500	1576		105	80	120		6020
Arsenic	250	265.4		106	80	120		6020
Barium	75.0	75.58		101	80	120		6020
Beryllium	25.0	26.03		104	80	120		6020
Calcium	7500	7243		97	80	120		6020
Cadmium	75.0	77.02		103	80	120		6020
Cobalt	75.0	83.03		111	80	120		6020
Chromium	75.0	75.79		101	80	120		6020
Copper	75.0	80.74		108	80	120		6020
Iron	6250	5919		95	80	120		6020
Potassium	5000	5335		107	80	120		6020
Magnesium	3750	3717		99	80	120		6020
Manganese	50.0	53.90		108	80	120		6020
Sodium	7500	7524		100	80	120		6020
Nickel	75.0	79.55		106	80	120		6020
Lead	250	263.9		106	80	120		6020
Antimony	250	268.5		107	80	120		6020
Selenium	125	127.7		102	80	120		6020
Thallium	250	238.1		95	80	120		6020
Vanadium	75.0	80.36		107	80	120		6020
Zinc	75.0	78.97		105	80	120		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 220-34494/2-A

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

Sample Matrix: Water LCS Source: mlcspw_00051

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Silver	300	333		111	80	120		6020
Aluminum	6000	7750		129	80	120	N	6020
Arsenic	1000	1090		109	80	120		6020
Barium	300	296		99	80	120		6020
Beryllium	100	111		111	80	120		6020
Calcium	30000	30720		102	80	120		6020
Cadmium	300	310		103	80	120		6020
Cobalt	300	340		113	80	120		6020
Chromium	300	307		102	80	120		6020
Copper	300	333		111	80	120		6020
Iron	25000	24490		98	80	120		6020
Potassium	20000	22410		112	80	120		6020
Magnesium	15000	16430		110	80	120		6020
Manganese	200	215		107	80	120		6020
Sodium	30000	32720		109	80	120		6020
Nickel	300	326		109	80	120		6020
Lead	1000	1040		104	80	120		6020
Antimony	1000	1080		108	80	120		6020
Selenium	500	537		107	80	120		6020
Thallium	1000	966		97	80	120		6020
Vanadium	300	323		108	80	120		6020
Zinc	300	327		109	80	120		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 220-34373/2-A

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

Sample Matrix: Water LCS Source: mhgcalver_00034

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.98		100	80	120		7470A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 220-34334/2-A

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

Sample Matrix: Solid LCS Source: mhgcalver_00034

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.417	0.412		99	80	120		7471A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 220-34466/2-A

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

Sample Matrix: Solid LCS Source: mhgcalver_00034

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.417	0.445		107	80	120		7471A

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Connecticut Job Number: 220-11066-1

SDG Number:

Matrix: Water Instrument ID: ICPMS

Analysis Method: 6020 MDL Date: 05/29/2009 08:20

Prep Method: 3010A

Leach Method:

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Aluminum	27	250	50
Antimony	121	8	2
Arsenic	75	5	1
Barium	137	5	1
Beryllium	9	5	1
Cadmium	111	5	1
Calcium	44	500	100
Chromium	53	10	2
Cobalt	59	5	1
Copper	63	10	1
Iron	57	250	50
Lead	207	5	1
Magnesium	24	500	50
Manganese	55	12	2
Nickel	60	5	1
Potassium	39	500	50
Selenium	78	10	2
Silver	107	5	1
Sodium	23	500	100
Thallium	205	7	2
Vanadium	51	5	1
Zinc	66	50	5

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Connecticut Job Number: 220-11066-1

SDG Number:

Matrix: Solid Instrument ID: ICPMS

Analysis Method: 6020 MDL Date: 05/29/2009 08:20

Prep Method: 3050B

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum	27	20	4
Antimony	121	0.64	0.16
Arsenic	75	0.4	0.08
Barium	137	0.4	0.12
Beryllium	9	0.4	0.12
Cadmium	111	0.4	0.08
Calcium	44	40	12
Chromium	53	0.8	0.16
Cobalt	59	0.4	0.08
Copper	63	0.8	0.08
Iron	57	20	6.4
Lead	207	0.4	0.08
Magnesium	24	40	4
Manganese	55	1	0.16
Nickel	60	0.4	0.08
Potassium	39	40	4
Selenium	78	0.8	0.24
Silver	107	0.4	0.08
Sodium	23	40	13.2
Thallium	205	0.56	0.16
Vanadium	51	0.4	0.08
Zinc	66	4	0.4

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Connecticut Job Number: 220-11066-1

SDG Number:

Matrix: Water Instrument ID: MERC1

Analysis Method: 7470A MDL Date: 03/18/2009 14:29

Prep Method: 7470A

Leach Method:

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.06

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Connecticut Job Number: 220-11066-1

SDG Number:

Matrix: Solid Instrument ID: MERC1

Analysis Method: 7471A MDL Date: 03/18/2009 14:32

Prep Method: 7471A

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.05	0.004

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Connecticut Job No: 220-11066-1

SDG No.:

Instrument ID: ICPMS Date: 03/05/2009 11:10

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		1000	6020
Aluminum		62500	6020
Arsenic		12500	6020
Barium		10000	6020
Beryllium		10000	6020
Calcium		125000	6020
Cadmium		10000	6020
Cobalt		12500	6020
Chromium		12500	6020
Copper		2500	6020
Iron		65000	6020
Potassium		125000	6020
Magnesium		125000	6020
Manganese		12500	6020
Sodium		300000	6020
Nickel		2500	6020
Lead		12500	6020
Antimony		2500	6020
Selenium		10000	6020
Thallium		12500	6020
Vanadium		12500	6020
Zinc		2500	6020

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 220-34475/1-A	12/21/2009 10:58	34475	1.25		1000
LCS 220-34475/2-A	12/21/2009 10:58	34475	1.00		1000
220-11066-1	12/21/2009 10:58	34475	1.18		1000
220-11066-2	12/21/2009 10:58	34475	1.08		1000
220-11066-3	12/21/2009 10:58	34475	1.29		1000
220-11066-4	12/21/2009 10:58	34475	1.10		1000
220-11066-5	12/21/2009 10:58	34475	1.21		1000
220-11066-6	12/21/2009 10:58	34475	1.40		1000
220-11066-7	12/21/2009 10:58	34475	1.27		1000
220-11066-8	12/21/2009 10:58	34475	1.24		1000

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Preparation Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 220-34494/1-A	12/21/2009 11:35	34494		100	500
LCS 220-34494/2-A	12/21/2009 11:35	34494		50	500
220-11066-14	12/21/2009 11:35	34494		100	500
220-11066-15	12/21/2009 11:35	34494		100	500
220-11066-16	12/21/2009 11:35	34494		100	500

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 220-34525/1-A	12/22/2009 09:38	34525	2.00		1000
LCS 220-34525/2-A	12/22/2009 09:38	34525	1.00		1000
220-11066-9	12/22/2009 09:38	34525	2.07		1000
220-11066-10	12/22/2009 09:38	34525	2.02		1000
220-11066-11	12/22/2009 09:38	34525	2.05		1000
220-11066-12	12/22/2009 09:38	34525	2.00		1000
220-11066-13	12/22/2009 09:38	34525	2.04		1000

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 220-34334/1-A	12/16/2009 11:04	34334	0.60		50
LCS 220-34334/2-A	12/16/2009 11:04	34334	0.60		50
220-11066-5	12/16/2009 11:04	34334	0.65		50
220-11066-6	12/16/2009 11:04	34334	0.62		50
220-11066-7	12/16/2009 11:04	34334	0.64		50
220-11066-8	12/16/2009 11:04	34334	0.60		50
220-11066-9	12/16/2009 11:04	34334	0.61		50
220-11066-10	12/16/2009 11:04	34334	0.63		50
220-11066-11	12/16/2009 11:04	34334	0.65		50
220-11066-12	12/16/2009 11:04	34334	0.65		50
220-11066-13	12/16/2009 11:04	34334	0.65		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Preparation Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 220-34373/1-A	12/17/2009 10:58	34373		25	50
LCS 220-34373/2-A	12/17/2009 10:58	34373		50	50
220-11066-14	12/17/2009 10:58	34373		25	50
220-11066-15	12/17/2009 10:58	34373		25	50
220-11066-16	12/17/2009 11:00	34373		25	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 220-34466/1-A	12/21/2009 09:59	34466	0.60		50
LCS 220-34466/2-A	12/21/2009 09:59	34466	0.60		50
220-11066-1	12/21/2009 09:59	34466	0.61		50
220-11066-2	12/21/2009 09:59	34466	0.63		50
220-11066-3	12/21/2009 09:59	34466	0.60		50
220-11066-4	12/21/2009 09:59	34466	0.60		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/22/2009 13:13 End Date: 12/22/2009 21:18

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ITUNE 220-34591/103			13:13																				
ICV 220-34591/98	1		14:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 220-34591/99	1		14:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 220-34591/100	1		14:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 220-34591/101	1		14:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 220-34591/102	1		14:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 220-34591/1			15:12																				
CCB 220-34591/2			15:21																				
ZZZZZZ			15:25																				
ZZZZZZ			15:28																				
ZZZZZZ			15:32																				
ZZZZZZ			15:35																				
ZZZZZZ			15:39																				
ZZZZZZ			15:42																				
ZZZZZZ			15:46																				
ZZZZZZ			15:50																				
ZZZZZZ			15:53																				
ZZZZZZ			15:57																				
CCV 220-34591/13	1		16:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34591/14	1		16:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 220-34525/1-A	1	T	16:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-9	1	T	16:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-10	1	T	16:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-11	1	T	16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-12	1	T	16:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-13	1	T	16:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:33																				
ZZZZZZ			16:36																				
ZZZZZZ			16:40																				
LCS 220-34525/2-A	1	T	16:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 220-34591/25	1		16:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34591/26	1		16:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:57																				
ZZZZZZ			17:00																				
ZZZZZZ			17:03																				
ZZZZZZ			17:07																				
ZZZZZZ			17:10																				
ZZZZZZ			17:14																				
ZZZZZZ			17:18																				
ZZZZZZ			17:21																				
ZZZZZZ			17:25																				
ZZZZZZ			17:28																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/22/2009 13:13 End Date: 12/22/2009 21:18

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCV 220-34591/37	1		17:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34591/38	1		17:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			17:44																				
ZZZZZZ			17:47																				
ZZZZZZ			17:51																				
ZZZZZZ			17:54																				
ZZZZZZ			17:58																				
ZZZZZZ			18:01																				
MB 220-34475/1-A	1	T	18:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:08																				
ZZZZZZ			18:12																				
LCS 220-34475/2-A	1	T	18:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 220-34591/49	1		18:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34591/50	1		18:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:29																				
ZZZZZZ			18:32																				
ZZZZZZ			18:36																				
220-11066-1	1	T	18:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-2	1	T	18:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-3	1	T	18:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-4	1	T	18:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-5	1	T	18:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-6	1	T	18:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-7	1	T	19:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 220-34591/61	1		19:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34591/62	1		19:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-8	1	T	19:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:18																				
ZZZZZZ			19:22																				
ZZZZZZ			19:25																				
ZZZZZZ			19:29																				
ZZZZZZ			19:32																				
ZZZZZZ			19:36																				
ZZZZZZ			19:39																				
ZZZZZZ			19:43																				
ZZZZZZ			19:46																				
CCV 220-34591/73	1		19:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34591/74	1		19:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:00																				
ZZZZZZ			20:03																				
ZZZZZZ			20:07																				
ZZZZZZ			20:10																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/22/2009 13:13 End Date: 12/22/2009 21:18

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			20:14																					
ZZZZZZ			20:18																					
ZZZZZZ			20:21																					
ZZZZZZ			20:25																					
ZZZZZZ			20:28																					
ZZZZZZ			20:32																					
CCV 220-34591/85			20:35																					
CCB 220-34591/86			20:39																					
ZZZZZZ			20:43																					
ZZZZZZ			20:46																					
ZZZZZZ			20:50																					
ZZZZZZ			20:53																					
ZZZZZZ			20:57																					
ZZZZZZ			21:00																					
ZZZZZZ			21:04																					
ZZZZZZ			21:08																					
ZZZZZZ			21:11																					
CCV 220-34591/96			21:15																					
CCB 220-34591/97			21:18																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/22/2009 13:13 End Date: 12/22/2009 21:18

Lab Sample ID	D / F	Type	Time	Analytes																				
				V	Zn																			
ITUNE 220-34591/103			13:13																					
ICV 220-34591/98	1		14:04	X	X																			
ICB 220-34591/99	1		14:12	X	X																			
CRI 220-34591/100	1		14:22	X	X																			
ICSA 220-34591/101	1		14:26	X	X																			
ICSAB 220-34591/102	1		14:30	X	X																			
CCV 220-34591/1			15:12																					
CCB 220-34591/2			15:21																					
ZZZZZZ			15:25																					
ZZZZZZ			15:28																					
ZZZZZZ			15:32																					
ZZZZZZ			15:35																					
ZZZZZZ			15:39																					
ZZZZZZ			15:42																					
ZZZZZZ			15:46																					
ZZZZZZ			15:50																					
ZZZZZZ			15:53																					
ZZZZZZ			15:57																					
CCV 220-34591/13	1		16:00	X	X																			
CCB 220-34591/14	1		16:07	X	X																			
MB 220-34525/1-A	1	T	16:11	X	X																			
220-11066-9	1	T	16:14	X	X																			
220-11066-10	1	T	16:18	X	X																			
220-11066-11	1	T	16:21	X	X																			
220-11066-12	1	T	16:25	X	X																			
220-11066-13	1	T	16:29	X	X																			
ZZZZZZ			16:33																					
ZZZZZZ			16:36																					
ZZZZZZ			16:40																					
LCS 220-34525/2-A	1	T	16:43	X	X																			
CCV 220-34591/25	1		16:47	X	X																			
CCB 220-34591/26	1		16:53	X	X																			
ZZZZZZ			16:57																					
ZZZZZZ			17:00																					
ZZZZZZ			17:03																					
ZZZZZZ			17:07																					
ZZZZZZ			17:10																					
ZZZZZZ			17:14																					
ZZZZZZ			17:18																					
ZZZZZZ			17:21																					
ZZZZZZ			17:25																					
ZZZZZZ			17:28																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/22/2009 13:13 End Date: 12/22/2009 21:18

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CCV 220-34591/37	1		17:32	X	X																		
CCB 220-34591/38	1		17:39	X	X																		
ZZZZZZ			17:44																				
ZZZZZZ			17:47																				
ZZZZZZ			17:51																				
ZZZZZZ			17:54																				
ZZZZZZ			17:58																				
ZZZZZZ			18:01																				
MB 220-34475/1-A	1	T	18:05	X	X																		
ZZZZZZ			18:08																				
ZZZZZZ			18:12																				
LCS 220-34475/2-A	1	T	18:15	X	X																		
CCV 220-34591/49	1		18:19	X	X																		
CCB 220-34591/50	1		18:25	X	X																		
ZZZZZZ			18:29																				
ZZZZZZ			18:32																				
ZZZZZZ			18:36																				
220-11066-1	1	T	18:39	X	X																		
220-11066-2	1	T	18:43	X	X																		
220-11066-3	1	T	18:46	X	X																		
220-11066-4	1	T	18:50	X	X																		
220-11066-5	1	T	18:53	X	X																		
220-11066-6	1	T	18:57	X	X																		
220-11066-7	1	T	19:00	X	X																		
CCV 220-34591/61	1		19:04	X	X																		
CCB 220-34591/62	1		19:11	X	X																		
220-11066-8	1	T	19:15	X	X																		
ZZZZZZ			19:18																				
ZZZZZZ			19:22																				
ZZZZZZ			19:25																				
ZZZZZZ			19:29																				
ZZZZZZ			19:32																				
ZZZZZZ			19:36																				
ZZZZZZ			19:39																				
ZZZZZZ			19:43																				
ZZZZZZ			19:46																				
CCV 220-34591/73	1		19:50	X	X																		
CCB 220-34591/74	1		19:56	X	X																		
ZZZZZZ			20:00																				
ZZZZZZ			20:03																				
ZZZZZZ			20:07																				
ZZZZZZ			20:10																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/22/2009 13:13 End Date: 12/22/2009 21:18

Lab Sample ID	D / F	Type	Time	Analytes																				
				V	Zn																			
ZZZZZZ			20:14																					
ZZZZZZ			20:18																					
ZZZZZZ			20:21																					
ZZZZZZ			20:25																					
ZZZZZZ			20:28																					
ZZZZZZ			20:32																					
CCV 220-34591/85			20:35																					
CCB 220-34591/86			20:39																					
ZZZZZZ			20:43																					
ZZZZZZ			20:46																					
ZZZZZZ			20:50																					
ZZZZZZ			20:53																					
ZZZZZZ			20:57																					
ZZZZZZ			21:00																					
ZZZZZZ			21:04																					
ZZZZZZ			21:08																					
ZZZZZZ			21:11																					
CCV 220-34591/96			21:15																					
CCB 220-34591/97			21:18																					

Prep Types

E = SPLP East

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/23/2009 11:34 End Date: 12/23/2009 18:30

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICV 220-34609/1	1		11:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 220-34609/2	1		11:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 220-34609/3	1		11:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 220-34609/4	1		11:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 220-34609/5	1		11:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 220-34609/6	1		11:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34609/7	1		12:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 220-34494/1-A	1	T	12:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-14	1	T	12:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-15	1	T	12:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
220-11066-16	1	T	12:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:23																				
ZZZZZZ			12:27																				
ZZZZZZ			12:30																				
ZZZZZZ			12:34																				
ZZZZZZ			12:37																				
LCS 220-34494/2-A	1	T	12:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 220-34609/18	1		12:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34609/19	1		12:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:55																				
ZZZZZZ			12:58																				
ZZZZZZ			13:02																				
ZZZZZZ			13:06																				
ZZZZZZ			13:09																				
ZZZZZZ			13:13																				
ZZZZZZ			13:16																				
ZZZZZZ			13:20																				
ZZZZZZ			13:23																				
ZZZZZZ			13:27																				
CCV 220-34609/30	1		13:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 220-34609/31	1		13:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:41																				
ZZZZZZ			13:44																				
ZZZZZZ			13:48																				
ZZZZZZ			13:51																				
ZZZZZZ			13:55																				
ZZZZZZ			13:58																				
ZZZZZZ			14:02																				
ZZZZZZ			14:05																				
ZZZZZZ			14:09																				
ZZZZZZ			14:12																				
CCV 220-34609/42			14:16																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/23/2009 11:34 End Date: 12/23/2009 18:30

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCB 220-34609/43			14:22																				
ZZZZZZ			14:26																				
ZZZZZZ			14:29																				
ZZZZZZ			14:33																				
ZZZZZZ			14:36																				
ZZZZZZ			14:40																				
ZZZZZZ			14:43																				
ZZZZZZ			14:47																				
ZZZZZZ			14:50																				
ZZZZZZ			14:54																				
ZZZZZZ			14:58																				
CCV 220-34609/54			15:02																				
CCB 220-34609/55			15:09																				
ZZZZZZ			15:12																				
ZZZZZZ			15:16																				
ZZZZZZ			15:19																				
ZZZZZZ			15:23																				
ZZZZZZ			15:26																				
ZZZZZZ			15:30																				
ZZZZZZ			15:33																				
ZZZZZZ			15:37																				
ZZZZZZ			15:40																				
ZZZZZZ			15:44																				
CCV 220-34609/66			15:47																				
CCB 220-34609/67			15:54																				
ZZZZZZ			15:58																				
ZZZZZZ			16:01																				
ZZZZZZ			16:05																				
ZZZZZZ			16:08																				
ZZZZZZ			16:12																				
ZZZZZZ			16:15																				
ZZZZZZ			16:19																				
ZZZZZZ			16:22																				
ZZZZZZ			16:26																				
ZZZZZZ			16:29																				
CCV 220-34609/78			16:34																				
CCB 220-34609/79			16:41																				
ZZZZZZ			16:44																				
ZZZZZZ			16:48																				
ZZZZZZ			16:51																				
ZZZZZZ			16:55																				
ZZZZZZ			16:58																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/23/2009 11:34 End Date: 12/23/2009 18:30

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			17:02																					
ZZZZZZ			17:05																					
ZZZZZZ			17:09																					
ZZZZZZ			17:12																					
ZZZZZZ			17:16																					
CCV 220-34609/90			17:19																					
CCB 220-34609/91			17:25																					
ZZZZZZ			17:28																					
ZZZZZZ			17:32																					
ZZZZZZ			17:36																					
ZZZZZZ			17:39																					
ZZZZZZ			17:43																					
ZZZZZZ			17:46																					
ZZZZZZ			17:50																					
ZZZZZZ			17:53																					
ZZZZZZ			17:57																					
ZZZZZZ			18:00																					
CCV 220-34609/102			18:04																					
CCB 220-34609/103			18:10																					
ZZZZZZ			18:14																					
ZZZZZZ			18:17																					
ZZZZZZ			18:21																					
CCV 220-34609/107			18:24																					
CCB 220-34609/108			18:30																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/23/2009 11:34 End Date: 12/23/2009 18:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICV 220-34609/1	1		11:34	X	X																		
ICB 220-34609/2	1		11:45	X	X																		
CRI 220-34609/3	1		11:48	X	X																		
ICSA 220-34609/4	1		11:52	X	X																		
ICSAB 220-34609/5	1		11:55	X	X																		
CCV 220-34609/6	1		11:59	X	X																		
CCB 220-34609/7	1		12:05	X	X																		
MB 220-34494/1-A	1	T	12:09	X	X																		
220-11066-14	1	T	12:13	X	X																		
220-11066-15	1	T	12:16	X	X																		
220-11066-16	1	T	12:20	X	X																		
ZZZZZZ			12:23																				
ZZZZZZ			12:27																				
ZZZZZZ			12:30																				
ZZZZZZ			12:34																				
ZZZZZZ			12:37																				
LCS 220-34494/2-A	1	T	12:41	X	X																		
CCV 220-34609/18	1		12:45	X	X																		
CCB 220-34609/19	1		12:51	X	X																		
ZZZZZZ			12:55																				
ZZZZZZ			12:58																				
ZZZZZZ			13:02																				
ZZZZZZ			13:06																				
ZZZZZZ			13:09																				
ZZZZZZ			13:13																				
ZZZZZZ			13:16																				
ZZZZZZ			13:20																				
ZZZZZZ			13:23																				
ZZZZZZ			13:27																				
CCV 220-34609/30	1		13:30	X	X																		
CCB 220-34609/31	1		13:37	X	X																		
ZZZZZZ			13:41																				
ZZZZZZ			13:44																				
ZZZZZZ			13:48																				
ZZZZZZ			13:51																				
ZZZZZZ			13:55																				
ZZZZZZ			13:58																				
ZZZZZZ			14:02																				
ZZZZZZ			14:05																				
ZZZZZZ			14:09																				
ZZZZZZ			14:12																				
CCV 220-34609/42			14:16																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/23/2009 11:34 End Date: 12/23/2009 18:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CCB 220-34609/43			14:22																				
ZZZZZZ			14:26																				
ZZZZZZ			14:29																				
ZZZZZZ			14:33																				
ZZZZZZ			14:36																				
ZZZZZZ			14:40																				
ZZZZZZ			14:43																				
ZZZZZZ			14:47																				
ZZZZZZ			14:50																				
ZZZZZZ			14:54																				
ZZZZZZ			14:58																				
CCV 220-34609/54			15:02																				
CCB 220-34609/55			15:09																				
ZZZZZZ			15:12																				
ZZZZZZ			15:16																				
ZZZZZZ			15:19																				
ZZZZZZ			15:23																				
ZZZZZZ			15:26																				
ZZZZZZ			15:30																				
ZZZZZZ			15:33																				
ZZZZZZ			15:37																				
ZZZZZZ			15:40																				
ZZZZZZ			15:44																				
CCV 220-34609/66			15:47																				
CCB 220-34609/67			15:54																				
ZZZZZZ			15:58																				
ZZZZZZ			16:01																				
ZZZZZZ			16:05																				
ZZZZZZ			16:08																				
ZZZZZZ			16:12																				
ZZZZZZ			16:15																				
ZZZZZZ			16:19																				
ZZZZZZ			16:22																				
ZZZZZZ			16:26																				
ZZZZZZ			16:29																				
CCV 220-34609/78			16:34																				
CCB 220-34609/79			16:41																				
ZZZZZZ			16:44																				
ZZZZZZ			16:48																				
ZZZZZZ			16:51																				
ZZZZZZ			16:55																				
ZZZZZZ			16:58																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: ICPMS Method: 6020

Start Date: 12/23/2009 11:34 End Date: 12/23/2009 18:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			17:02																				
ZZZZZZ			17:05																				
ZZZZZZ			17:09																				
ZZZZZZ			17:12																				
ZZZZZZ			17:16																				
CCV 220-34609/90			17:19																				
CCB 220-34609/91			17:25																				
ZZZZZZ			17:28																				
ZZZZZZ			17:32																				
ZZZZZZ			17:36																				
ZZZZZZ			17:39																				
ZZZZZZ			17:43																				
ZZZZZZ			17:46																				
ZZZZZZ			17:50																				
ZZZZZZ			17:53																				
ZZZZZZ			17:57																				
ZZZZZZ			18:00																				
CCV 220-34609/102			18:04																				
CCB 220-34609/103			18:10																				
ZZZZZZ			18:14																				
ZZZZZZ			18:17																				
ZZZZZZ			18:21																				
CCV 220-34609/107			18:24																				
CCB 220-34609/108			18:30																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MERC1 Method: 7470A

Start Date: 12/17/2009 15:59 End Date: 12/17/2009 16:41

Lab Sample ID	D/F	Type	Time	Analytes																				
				Hg																				
ZZZZZZ			15:59																					
ZZZZZZ			16:00																					
ZZZZZZ			16:01																					
ZZZZZZ			16:03																					
ZZZZZZ			16:04																					
ZZZZZZ			16:05																					
ICV 220-34405/7	1		16:07	X																				
ICB 220-34405/8	1		16:08	X																				
MB 220-34373/1-A	1	T	16:09	X																				
LCS 220-34373/2-A	1	T	16:10	X																				
ZZZZZZ			16:11																					
ZZZZZZ			16:12																					
ZZZZZZ			16:13																					
ZZZZZZ			16:14																					
ZZZZZZ			16:15																					
ZZZZZZ			16:16																					
ZZZZZZ			16:17																					
ZZZZZZ			16:17																					
CCV 220-34405/19	1		16:18	X																				
CCB 220-34405/20	1		16:20	X																				
ZZZZZZ			16:21																					
ZZZZZZ			16:21																					
ZZZZZZ			16:22																					
ZZZZZZ			16:23																					
ZZZZZZ			16:24																					
ZZZZZZ			16:25																					
ZZZZZZ			16:26																					
ZZZZZZ			16:27																					
ZZZZZZ			16:29																					
ZZZZZZ			16:30																					
CCV 220-34405/31	1		16:31	X																				
CCB 220-34405/32	1		16:32	X																				
ZZZZZZ			16:33																					
ZZZZZZ			16:34																					
ZZZZZZ			16:35																					
220-11066-14	1	T	16:36	X																				
220-11066-15	1	T	16:36	X																				
220-11066-16	1	T	16:37	X																				
ZZZZZZ			16:38																					
CCV 220-34405/40	1		16:40	X																				
CCB 220-34405/41	1		16:41	X																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MERC1 Method: 7470A

Start Date: 12/17/2009 15:59 End Date: 12/17/2009 16:41

Prep Types
P = TCLP
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MERC1 Method: 7471A

Start Date: 12/17/2009 13:39 End Date: 12/17/2009 14:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			13:39																				
ZZZZZZ			13:40																				
ZZZZZZ			13:41																				
ZZZZZZ			13:42																				
ZZZZZZ			13:43																				
ZZZZZZ			13:45																				
ICV 220-34389/7	1		13:46	X																			
ICB 220-34389/8	1		13:47	X																			
MB 220-34334/1-A	1	T	13:48	X																			
LCS 220-34334/2-A	1	T	13:49	X																			
ZZZZZZ			13:51																				
ZZZZZZ			13:51																				
ZZZZZZ			13:52																				
ZZZZZZ			13:54																				
ZZZZZZ			13:55																				
ZZZZZZ			13:56																				
ZZZZZZ			13:57																				
ZZZZZZ			13:59																				
CCV 220-34389/19	1		13:59	X																			
CCB 220-34389/20	1		14:01	X																			
ZZZZZZ			14:02																				
ZZZZZZ			14:03																				
ZZZZZZ			14:04																				
ZZZZZZ			14:05																				
ZZZZZZ			14:06																				
220-11066-5	1	T	14:07	X																			
220-11066-6	1	T	14:08	X																			
220-11066-7	1	T	14:10	X																			
220-11066-8	1	T	14:11	X																			
ZZZZZZ			14:12																				
CCV 220-34389/31	1		14:14	X																			
CCB 220-34389/32	1		14:15	X																			
220-11066-10	1	T	14:16	X																			
220-11066-11	1	T	14:17	X																			
220-11066-12	1	T	14:18	X																			
220-11066-13	1	T	14:19	X																			
ZZZZZZ			14:20																				
220-11066-9	5	T	14:21	X																			
CCV 220-34389/39	1		14:22	X																			
CCB 220-34389/40	1		14:23	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MERC1 Method: 7471A

Start Date: 12/17/2009 13:39 End Date: 12/17/2009 14:23

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MERC1 Method: 7471A

Start Date: 12/22/2009 10:34 End Date: 12/22/2009 11:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			10:34																				
ZZZZZZ			10:35																				
ZZZZZZ			10:36																				
ZZZZZZ			10:37																				
ZZZZZZ			10:39																				
ZZZZZZ			10:40																				
ICV 220-34534/7	1		10:41	X																			
ICB 220-34534/8	1		10:42	X																			
MB 220-34466/1-A	1	T	10:43	X																			
LCS 220-34466/2-A	1	T	10:44	X																			
ZZZZZZ			10:46																				
ZZZZZZ			10:47																				
ZZZZZZ			10:48																				
ZZZZZZ			10:49																				
ZZZZZZ			10:50																				
ZZZZZZ			10:51																				
ZZZZZZ			10:52																				
ZZZZZZ			10:53																				
CCV 220-34534/19	1		10:54	X																			
CCB 220-34534/20	1		10:55	X																			
220-11066-1	1	T	10:56	X																			
220-11066-2	1	T	10:58	X																			
220-11066-3	1	T	10:59	X																			
220-11066-4	1	T	11:00	X																			
ZZZZZZ			11:01																				
ZZZZZZ			11:02																				
ZZZZZZ			11:03																				
ZZZZZZ			11:04																				
ZZZZZZ			11:05																				
ZZZZZZ			11:06																				
CCV 220-34534/31	1		11:07	X																			
CCB 220-34534/32	1		11:08	X																			
ZZZZZZ			11:09																				
ZZZZZZ			11:10																				
ZZZZZZ			11:11																				
ZZZZZZ			11:13																				
ZZZZZZ			11:14																				
ZZZZZZ			11:15																				
ZZZZZZ			11:16																				
ZZZZZZ			11:17																				
ZZZZZZ			11:18																				
ZZZZZZ			11:19																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

Instrument ID: MERC1 Method: 7471A

Start Date: 12/22/2009 10:34 End Date: 12/22/2009 11:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCV 220-34534/43			11:20																				
CCB 220-34534/44			11:21																				
ZZZZZZ			11:22																				
ZZZZZZ			11:24																				
ZZZZZZ			11:24																				
ZZZZZZ			11:26																				
ZZZZZZ			11:27																				
ZZZZZZ			11:27																				
ZZZZZZ			11:29																				
ZZZZZZ			11:30																				
ZZZZZZ			11:31																				
ZZZZZZ			11:32																				
CCV 220-34534/55	1		11:33	X																			
CCB 220-34534/56	1		11:35	X																			
ZZZZZZ			11:35																				
ZZZZZZ			11:36																				
ZZZZZZ			11:37																				
ZZZZZZ			11:38																				
ZZZZZZ			11:39																				
ZZZZZZ			11:40																				
ZZZZZZ			11:41																				
ZZZZZZ			11:42																				
ZZZZZZ			11:43																				
ZZZZZZ			11:51																				
CCV 220-34534/67	1		11:52	X																			
CCB 220-34534/68	1		11:54	X																			
ZZZZZZ			11:55																				
CCV 220-34534/70	1		11:56	X																			
CCB 220-34534/71	1		11:57	X																			

Prep Types

T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICP-MS Instrument ID: ICPMS Analysis Date: 12/22/09

Lab ID: ITUNE 220-34591/103

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.05	0.65	0.60	
Co-59	59.00	0.65	0.76	
In-115	115.00	0.65	1.27	
Tl-205	205.00	0.60	1.38	

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICP-MS Instrument ID: ICPMS Analysis Date: 12/23/09

Lab ID: ITUNE 220-34610/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.00	0.65	0.68	
Co-59	59.00	0.65	0.98	
In-115	115.00	0.65	0.42	
Tl-205	204.95	0.60	1.09	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICP-MS Instrument ID: ICPMS Start Date: 12/22/2009 End Date: 12/22/2009

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Sc	Q	Element Y	Q	Element In	Q	Element Bi	Q	Element	Q
ICV 220-34591/98	14:04	90		94		96		101			
ICB 220-34591/99	14:12	90		95		96		104			
CRI 220-34591/100	14:22	86		89		91		101			
ICSA 220-34591/101	14:26	94		95		93		91			
ICSAB 220-34591/102	14:30	99		98		95		89			
CCV 220-34591/13	16:00	96		97		97		102			
CCB 220-34591/14	16:07	92		94		96		104			
MB 220-34525/1-A	16:11	92		94		94		104			
220-11066-9	16:14	97		99		98		104			
220-11066-10	16:18	99		101		98		104			
220-11066-11	16:21	100		102		96		104			
220-11066-12	16:25	99		102		98		104			
220-11066-13	16:29	100		102		98		102			
LCS 220-34525/2-A	16:43	102		100		100		102			
CCV 220-34591/25	16:47	96		97		97		99			
CCB 220-34591/26	16:53	92		94		97		101			
CCV 220-34591/37	17:32	94		93		94		96			
CCB 220-34591/38	17:39	88		90		91		95			
MB 220-34475/1-A	18:05	94		94		93		98			
LCS 220-34475/2-A	18:15	99		96		95		98			
CCV 220-34591/49	18:19	96		94		95		95			
CCB 220-34591/50	18:25	91		92		92		96			
220-11066-1	18:39	101		100		95		95			
220-11066-2	18:43	105		101		98		99			
220-11066-3	18:46	105		105		96		96			
220-11066-4	18:50	104		103		97		98			
220-11066-5	18:53	103		100		95		95			
220-11066-6	18:57	106		102		97		97			
220-11066-7	19:00	108		102		97		97			
CCV 220-34591/61	19:04	102		97		96		94			
CCB 220-34591/62	19:11	98		95		95		94			
220-11066-8	19:15	105		102		95		95			
CCV 220-34591/73	19:50	93		92		91		92			
CCB 220-34591/74	19:56	92		91		92		94			

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Connecticut Job No.: 220-11066-1

SDG No.:

ICP-MS Instrument ID: ICPMS Start Date: 12/23/2009 End Date: 12/23/2009

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Sc	Q	Element Y	Q	Element In	Q	Element Bi	Q	Element	Q
ICV 220-34609/1	11:34	101		101		101		100			
ICB 220-34609/2	11:45	96		97		98		100			
CRI 220-34609/3	11:48	97		98		99		102			
ICSA 220-34609/4	11:52	100		98		95		90			
ICSAB 220-34609/5	11:55	103		100		96		88			
CCV 220-34609/6	11:59	108		105		102		98			
CCB 220-34609/7	12:05	102		102		102		99			
MB 220-34494/1-A	12:09	104		103		102		100			
220-11066-14	12:13	107		105		104		102			
220-11066-15	12:16	107		106		104		102			
220-11066-16	12:20	106		104		103		102			
LCS 220-34494/2-A	12:41	109		107		105		104			
CCV 220-34609/18	12:45	105		105		103		100			
CCB 220-34609/19	12:51	99		102		101		103			
CCV 220-34609/30	13:30	104		103		103		103			
CCB 220-34609/31	13:37	97		100		101		105			

TestAmerica

128 Long Hill Cross Roads
Shelton, Connecticut, 06484

METALS QUALITY CONTROL APPROVAL REPORT

Batch Number 34591

	1st Level Review	Comments
Chain of Custody forms have been completed.	✓	
Initial Calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
Continuing calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
Correct analytical sequence followed (CRI, ICSA,etc.) and criteria* met.	✓	
All blank criteria* met. ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
IDLs, Linear Range and IECs current.	✓	
LSC, MS,MD, MSD (if required) meet acceptance limits*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
Serial dilution analyzed once per SDG or 20 samples.	✓	
Post digestion spike performed as required.	✓	
Flagging correct.	✓	
All raw data submitted as per deliverable requiements.	✓	
Prep batch completed with proper information.	✓	
All deviations, prep and anlaysis methods noted in NCMs.	✓	

* Reference SOPs for appropriate acceptance criteria.

This data meets the requirements of the Metals SOP's, unless otherwise documented in a NCM.

[signature] Date 12/22/09

Authorizing Signature (2nd level Review)

TestAmerica Form #MEF01105.CT

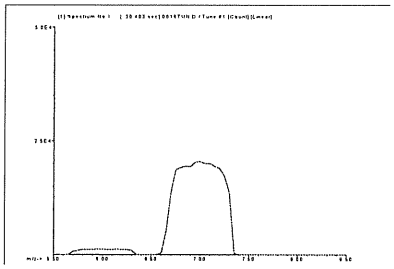
6020 Tune Check Sample

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\0016TUN.D
Date Acquired: Dec 22 2009 01:13 pm
Operator:
Sample Name: ITUNE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\TN_6020.M

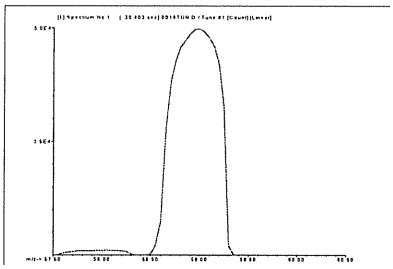
QC Tune Summary:
Pass

RSD%

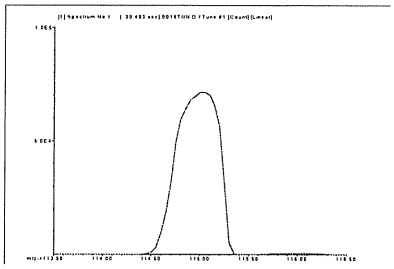
Element	Actual	Required	Flag
7 Li	0.60	5.00	0
59 Co	0.76	5.00	
115 In	1.27	5.00	
205 Tl	1.38	5.00	



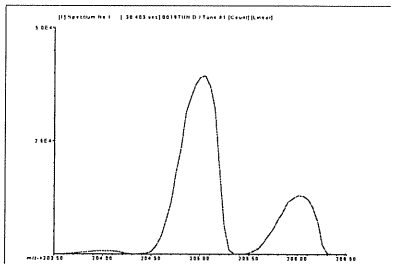
7 Li
Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.00
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#
Date Acquired: Dec 22 2009 01:50 pm
Acq. Method: STL5.M
Operator:
Sample Name: 0
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 01:52 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	21	39.74
9	Be	45	1	4	43.30
11	B	45	1	1757	3.33
23	Na	45	1	26529	0.27
24	Mg	45	1	692	23.77
27	Al	45	1	410	28.32
29	Si	45	1	3646	3.40
34	S	45	1	4522	2.54
39	K	45	1	47096	0.35
44	Ca	45	1	392	9.17
47	Ti	45	1	12	15.75
51	V	45	1	141	50.68
53	Cr	45	1	196	18.23
55	Mn	45	1	857	3.09
57	Fe	45	1	330	15.29
59	Co	89	1	842	17.61
60	Ni	89	1	329	21.29
63	Cu	89	1	2369	7.16
66	Zn	89	1	888	7.55
75	As	89	1	30	33.34
78	Se	89	1	59	46.10
90	Zr	89	1	2108	5.57
95	Mo	89	1	308	4.51
107	Ag	115	1	258	43.30
111	Cd	115	1	30	77.78
118	Sn	115	1	1676	17.13
121	Sb	115	1	836	11.63
137	Ba	115	1	68	15.03
205	Tl	209	1	6920	5.41
207	Pb	209	1	308	24.03
232	Th	209	1	4041	3.03
238	U	209	1	387	51.99

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	687757	0.65
89	Y	1	2478729	0.57
115	In	1	2782821	1.24
209	Bi	1	3789700	1.03

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\012CALS.D\012CALS.D#
Date Acquired: Dec 22 2009 01:54 pm
Acq. Method: STL5.M
Operator:
Sample Name: 50
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 01:52 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	11448	2.07
9	Be	45	1	9961	1.90
11	B	45	1	6106	1.14
23	Na	45	1	1034975	0.78
24	Mg	45	1	511576	0.24
27	Al	45	1	455105	0.35
29	Si	45	1	4264	2.97
34	S	45	1	6968	0.83
39	K	45	1	599528	0.72
44	Ca	45	1	24818	0.77
47	Ti	45	1	15115	2.85
51	V	45	1	405383	0.41
53	Cr	45	1	59620	0.56
55	Mn	45	1	308360	0.74
57	Fe	45	1	51701	0.78
59	Co	89	1	737143	0.12
60	Ni	89	1	194641	0.77
63	Cu	89	1	507065	0.37
66	Zn	89	1	82351	0.82
75	As	89	1	50982	0.28
78	Se	89	1	4841	2.16
90	Zr	89	1	539801	5.72
95	Mo	89	1	197520	0.51
107	Ag	115	1	674323	0.38
111	Cd	115	1	102802	0.26
118	Sn	115	1	203503	0.10
121	Sb	115	1	443029	1.93
137	Ba	115	1	96987	0.81
205	Tl	209	1	1072830	1.54
207	Pb	209	1	277324	1.27
232	Th	209	1	1162480	1.77
238	U	209	1	1219546	0.66

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	715446	1.32	687757	104.0	60 - 120	
89	Y	1	2566589	0.86	2478729	103.5	60 - 120	
115	In	1	2839563	0.99	2782821	102.0	60 - 120	
209	Bi	1	3885706	1.35	3789700	102.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\013CALS.D\013CALS.D#
Date Acquired: Dec 22 2009 01:57 pm
Acq. Method: STL5.M
Operator:
Sample Name: 100
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 01:55 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	23261	1.71
9	Be	45	1	19909	1.71
11	B	45	1	9871	2.22
23	Na	45	1	2007690	1.47
24	Mg	45	1	947679	1.32
27	Al	45	1	784556	1.13
29	Si	45	1	5124	2.95
34	S	45	1	16055	1.83
39	K	45	1	950752	2.48
44	Ca	45	1	50056	1.71
47	Ti	45	1	29276	3.01
51	V	45	1	810460	1.54
53	Cr	45	1	118849	1.17
55	Mn	45	1	614875	1.51
57	Fe	45	1	103653	1.47
59	Co	89	1	1472274	0.45
60	Ni	89	1	387057	0.66
63	Cu	89	1	1007646	0.79
66	Zn	89	1	162458	0.69
75	As	89	1	101810	1.73
78	Se	89	1	9978	0.98
90	Zr	89	1	974689	1.14
95	Mo	89	1	390036	0.05
107	Ag	115	1	1317357	1.01
111	Cd	115	1	206058	0.99
118	Sn	115	1	408357	0.72
121	Sb	115	1	909723	2.61
137	Ba	115	1	195253	0.48
205	Tl	209	1	2110582	1.15
207	Pb	209	1	553003	1.92
232	Th	209	1	2385711	1.82
238	U	209	1	2444954	1.18

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	722001	1.62	687757	105.0	60 - 120	
89	Y	1	2563540	0.67	2478729	103.4	60 - 120	
115	In	1	2842801	0.86	2782821	102.2	60 - 120	
209	Bi	1	3821288	1.59	3789700	100.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\014CALS.D\014CALS.D#
Date Acquired: Dec 22 2009 02:01 pm
Acq. Method: STL5.M
Operator:
Sample Name: 500
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 01:59 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	114041	0.22
9	Be	45	1	99272	0.68
11	B	45	1	40731	2.73
23	Na	45	1	9987842	0.74
24	Mg	45	1	4705917	0.84
27	Al	45	1	3809317	0.72
29	Si	45	1	13483	1.05
34	S	45	1	52050	0.73
39	K	45	1	4548087	0.27
44	Ca	45	1	256244	1.39
47	Ti	45	1	154047	0.80
51	V	45	1	3989179	0.85
53	Cr	45	1	602747	0.58
55	Mn	45	1	3006103	1.03
57	Fe	45	1	525388	1.10
59	Co	89	1	7084355	0.55
60	Ni	89	1	1889573	1.11
63	Cu	89	1	4764899	0.76
66	Zn	89	1	798868	0.89
75	As	89	1	515453	0.73
78	Se	89	1	49614	0.26
90	Zr	89	1	4834333	0.55
95	Mo	89	1	2041011	1.08
107	Ag	115	1	6235335	1.03
111	Cd	115	1	1025990	0.52
118	Sn	115	1	2146664	0.47
121	Sb	115	1	4790811	1.12
137	Ba	115	1	996079	2.30
205	Tl	209	1	10177730	0.88
207	Pb	209	1	2724428	0.26
232	Th	209	1	11894270	1.52
238	U	209	1	11921210	1.22

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	746414	0.16	687757	108.5	60 - 120	
89	Y	1	2595445	0.49	2478729	104.7	60 - 120	
115	In	1	2868057	0.26	2782821	103.1	60 - 120	
209	Bi	1	3818104	1.50	3789700	100.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\015_ICV.D\015_ICV.D#
Date Acquired: Dec 22 2009 02:04 pm
Operator:
Sample Name: ICV
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 22 2009 02:02 pm
Sample Type: 6-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
7 Li	45	1	80.00	ppb	1.76	75	106.7	90 - 110	
9 Be	45	1	124.20	ppb	2.12	120	103.5	90 - 110	
11 B	45	1	199.20	ppb	1.56	200	99.6	90 - 110	
23 Na	45	1	2038.00	ppb	1.26	2000	101.9	90 - 110	
24 Mg	45	1	2587.00	ppb	1.21	2500	103.5	90 - 110	
27 Al	45	1	3661.00	ppb	1.85	3500	104.6	90 - 110	
29 Si	45	1	169.70	ppb	4.04	200	84.9	90 - 110	Fail
34 S	45	1	10380.00	ppb	1.26	10000	103.8	90 - 110	
39 K	45	1	4122.00	ppb	2.19	4000	103.1	90 - 110	
44 Ca	45	1	2520.00	ppb	1.96	2500	100.8	90 - 110	
47 Ti	45	1	200.80	ppb	1.46	200	100.4	90 - 110	
51 V	45	1	63.13	ppb	1.69	60	105.2	90 - 110	
53 Cr	45	1	60.06	ppb	1.55	60	100.1	90 - 110	
55 Mn	45	1	42.32	ppb	1.26	40	105.8	90 - 110	
57 Fe	45	1	1011.00	ppb	1.94	1000	101.1	90 - 110	
59 Co	89	1	62.27	ppb	0.19	60	103.8	90 - 110	
60 Ni	89	1	60.13	ppb	0.36	60	100.2	90 - 110	
63 Cu	89	1	61.58	ppb	0.61	60	102.6	90 - 110	
66 Zn	89	1	60.40	ppb	1.11	60	100.7	90 - 110	
75 As	89	1	199.40	ppb	0.85	200	99.7	90 - 110	
78 Se	89	1	99.21	ppb	2.03	100	99.2	90 - 110	
90 Zr	89	1	160.10	ppb	0.60	165	97.0	90 - 110	
95 Mo	89	1	202.80	ppb	0.16	200	101.4	90 - 110	
107 Ag	115	1	63.18	ppb	0.69	60	105.3	90 - 110	
111 Cd	115	1	59.70	ppb	1.20	60	99.5	90 - 110	
118 Sn	115	1	194.00	ppb	0.28	200	97.0	90 - 110	
121 Sb	115	1	213.30	ppb	1.71	200	106.7	90 - 110	
137 Ba	115	1	58.70	ppb	0.65	60	97.8	90 - 110	
205 Tl	209	1	193.20	ppb	1.65	200	96.6	90 - 110	
207 Pb	209	1	205.10	ppb	1.67	200	102.6	90 - 110	
232 Th	209	1	77.80	ppb	2.74	75	103.7	90 - 110	
238 U	209	1	76.96	ppb	0.52	75	102.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	731384	1.40	687757	106.3	60 - 120	
89 Y	1	2600313	0.71	2478729	104.9	60 - 120	
115 In	1	2900340	0.55	2782821	104.2	60 - 120	
209 Bi	1	3866080	1.49	3789700	102.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\018_ICB.D\018_ICB.D#
Date Acquired: Dec 22 2009 02:19 pm
Operator:
Sample Name: ICB
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 22 2009 02:02 pm
Sample Type: 6-ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
7 Li	45	1	0.06	ppb	52.48	1.00	
9 Be	45	1	0.04	ppb	131.46	0.50	
11 B	45	1	0.55	ppb	241.57	15.00	
23 Na	45	1	0.17	ppb	316.18	50.00	
24 Mg	45	1	0.44	ppb	124.59	50.00	
27 Al	45	1	1.03	ppb	88.06	25.00	
29 Si	45	1	9.29	ppb	61.93	50.00	
34 S	45	1	25.72	ppb	91.25	1000.00	
39 K	45	1	-0.08	ppb	593.37	50.00	
44 Ca	45	1	-0.35	ppb	142.61	50.00	
47 Ti	45	1	0.08	ppb	18.33	3.00	
51 V	45	1	0.03	ppb	121.81	0.50	
53 Cr	45	1	0.03	ppb	82.97	1.00	
55 Mn	45	1	0.02	ppb	187.60	1.20	
57 Fe	45	1	0.32	ppb	71.42	25.00	
59 Co	89	1	0.03	ppb	98.45	0.50	
60 Ni	89	1	0.03	ppb	88.53	0.50	
63 Cu	89	1	0.06	ppb	64.22	1.00	
66 Zn	89	1	0.03	ppb	203.74	5.00	
75 As	89	1	0.06	ppb	78.14	0.50	
78 Se	89	1	0.02	ppb	632.00	1.00	
90 Zr	89	1	0.12	ppb	23.68	1.50	
95 Mo	89	1	0.15	ppb	16.66	3.00	
107 Ag	115	1	0.03	ppb	120.17	0.50	
111 Cd	115	1	0.03	ppb	94.07	0.50	
118 Sn	115	1	0.27	ppb	29.05	3.00	
121 Sb	115	1	0.27	ppb	23.01	0.80	
137 Ba	115	1	0.03	ppb	105.82	0.50	
205 Tl	209	1	-0.07	ppb	32.00	0.70	
207 Pb	209	1	0.03	ppb	82.25	0.50	
232 Th	209	1	0.20	ppb	11.47	1.00	
238 U	209	1	0.03	ppb	93.48	0.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	701686	1.31	687757	102.0	60 - 120	
89 Y	1	2502690	2.38	2478729	101.0	60 - 120	
115 In	1	2806720	0.95	2782821	100.9	60 - 120	
209 Bi	1	3849911	1.20	3789700	101.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\019_LCS.D\019_LCS.D#
Date Acquired: Dec 22 2009 02:22 pm
Acq. Method: STL5.M
Operator:
Sample Name: CRI
Misc Info:
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 02:02 pm
Sample Type: 6-LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
7 Li	45	1	0.65	8.99	1	130.8	70 - 130	Fail
9 Be	45	1	0.55	11.76	1	110.9	70 - 130	
11 B	45	1	17.10	3.46	15	114.0	70 - 130	
23 Na	45	1	60.32	1.32	50	120.6	70 - 130	
24 Mg	45	1	57.96	1.33	50	115.9	70 - 130	
27 Al	45	1	33.80	1.68	26	132.5	70 - 130	Fail
39 K	45	1	68.81	2.48	50	137.6	70 - 130	Fail
44 Ca	45	1	51.53	2.01	50	103.1	70 - 130	
47 Ti	45	1	2.81	3.38	3	112.2	70 - 130	
51 V	45	1	0.56	6.29	1	112.2	70 - 130	
53 Cr	45	1	0.57	6.63	1	114.0	70 - 130	
55 Mn	45	1	0.52	3.35	1	104.4	70 - 130	
57 Fe	45	1	25.49	3.67	25	102.0	70 - 130	
59 Co	89	1	0.54	1.42	1	108.2	70 - 130	
60 Ni	89	1	0.51	8.70	1	102.4	70 - 130	
63 Cu	89	1	0.40	5.08	1	80.7	70 - 130	
66 Zn	89	1	4.36	0.19	5	96.8	70 - 130	
75 As	89	1	0.48	5.23	1	95.7	70 - 130	
78 Se	89	1	1.22	23.43	1	121.8	70 - 130	
90 Zr	89	1	5.20	2.62	1	1040.8	70 - 130	Fail
95 Mo	89	1	2.64	3.37	3	105.7	70 - 130	
107 Ag	115	1	0.57	1.81	1	113.9	70 - 130	
111 Cd	115	1	0.51	2.52	1	101.4	70 - 130	
118 Sn	115	1	2.61	3.03	3	104.6	70 - 130	
121 Sb	115	1	0.68	6.49	1	135.4	70 - 130	Fail
137 Ba	115	1	0.49	2.43	1	97.8	70 - 130	
205 Tl	209	1	0.43	6.72	1	85.6	70 - 130	
207 Pb	209	1	0.52	8.73	1	103.9	70 - 130	
232 Th	209	1	0.55	3.45	1	109.7	70 - 130	
238 U	209	1	0.50	4.50	1	100.6	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	691958	1.49	687757	100.6	60 - 120	
89 Y	1	2451867	0.60	2478729	98.9	60 - 120	
115 In	1	2729808	1.50	2782821	98.1	60 - 120	
209 Bi	1	3831658	0.88	3789700	101.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

5 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\020ICSA.D\020ICSA.D#
Date Acquired: Dec 22 2009 02:26 pm
Acq. Method: STL5.M
Operator:
Sample Name: ICSA
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 02:02 pm
Sample Type: 6-ICSA
Dilution Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
7 Li	45	1	0.16 ppb	34.06	1.00	
9 Be	45	1	0.01 ppb	480.58	0.50	
11 B	45	1	-0.74 ppb	100.26	15.00	
23 Na	45	1	48730.00 ppb	0.46	##########	
24 Mg	45	1	19320.00 ppb	0.69	##########	
27 Al	45	1	19680.00 ppb	0.84	62500.00	
29 Si	45	1	4.57 ppb	99.61	50.00	
34 S	45	1	20130.00 ppb	1.85	21000.00	
39 K	45	1	19700.00 ppb	1.50	##########	
44 Ca	45	1	51380.00 ppb	0.78	##########	
47 Ti	45	1	402.40 ppb	1.04	12501.00	
51 V	45	1	0.04 ppb	52.40	0.50	
53 Cr	45	1	0.54 ppb	0.61	1.00	
55 Mn	45	1	0.28 ppb	15.00	1.20	
57 Fe	45	1	45800.00 ppb	1.16	65000.00	
59 Co	89	1	0.00 ppb	499.35	0.50	
60 Ni	89	1	0.36 ppb	3.98	0.50	
63 Cu	89	1	-0.04 ppb	40.14	1.00	
66 Zn	89	1	0.48 ppb	11.36	5.00	
75 As	89	1	0.04 ppb	23.69	0.50	
78 Se	89	1	-0.10 ppb	80.46	1.00	
90 Zr	89	1	4.74 ppb	10.05	1.50	Fail
95 Mo	89	1	400.20 ppb	0.49	12501.00	
107 Ag	115	1	0.04 ppb	63.66	0.50	
111 Cd	115	1	0.21 ppb	12.90	0.50	
118 Sn	115	1	0.24 ppb	15.17	3.00	
121 Sb	115	1	0.25 ppb	18.71	0.80	
137 Ba	115	1	0.03 ppb	124.91	0.50	
205 Tl	209	1	0.25 ppb	42.90	0.70	
207 Pb	209	1	0.18 ppb	11.32	0.50	
232 Th	209	1	0.23 ppb	16.56	1.00	
238 U	209	1	0.01 ppb	271.89	0.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	761775	2.66	687757	110.8	60 - 120	
89 Y	1	2604343	0.91	2478729	105.1	60 - 120	
115 In	1	2787903	0.52	2782821	100.2	60 - 120	
209 Bi	1	3477122	0.88	3789700	91.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\021ICSB.D\021ICSB.D#
Date Acquired: Dec 22 2009 02:30 pm
Acq. Method: STL5.M
Operator:
Sample Name: ICSAB
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 02:02 pm
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	45	1	48.40	2.03	50	96.8	80 - 120	
23 Na	45	1	49700.00	0.62	50000	99.4	80 - 120	
24 Mg	45	1	19700.00	0.79	20000	98.5	80 - 120	
27 Al	45	1	20010.00	0.26	20000	100.1	80 - 120	
39 K	45	1	20140.00	1.33	20000	100.7	80 - 120	
44 Ca	45	1	52440.00	1.48	60000	87.4	80 - 120	
47 Ti	45	1	407.60	1.49	400	101.9	80 - 120	
51 V	45	1	51.61	0.83	50	103.2	80 - 120	
53 Cr	45	1	48.15	1.30	50	96.3	80 - 120	
55 Mn	45	1	50.32	0.78	50	100.6	80 - 120	
57 Fe	45	1	45900.00	1.66	50000	91.8	80 - 120	
59 Co	89	1	50.30	0.94	50	100.6	80 - 120	
60 Ni	89	1	95.82	0.88	100	95.8	80 - 120	
63 Cu	89	1	47.82	0.33	50	95.6	80 - 120	
66 Zn	89	1	94.48	0.69	100	94.5	80 - 120	
75 As	89	1	10.16	1.42	10	101.6	80 - 120	
78 Se	89	1	4.85	1.78	5	96.9	80 - 120	
95 Mo	89	1	404.40	0.67	400	101.1	80 - 120	
107 Ag	115	1	19.96	1.24	20	99.8	80 - 120	
111 Cd	115	1	95.82	0.76	100	95.8	80 - 120	
121 Sb	115	1	64.02	0.87	60	106.7	80 - 120	
137 Ba	115	1	44.14	1.22	50	88.3	80 - 120	
205 Tl	209	1	9.60	0.73	10	96.0	80 - 120	
207 Pb	209	1	5.11	1.09	5	102.3	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	800690	1.45	687757	116.4	60 - 120	
89 Y	1	2707921	0.69	2478729	109.2	60 - 120	
115 In	1	2858227	1.11	2782821	102.7	60 - 120	
209 Bi	1	3407286	0.83	3789700	89.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\022_CCV.D\022_CCV.D#
Date Acquired: Dec 22 2009 02:33 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 22 2009 02:02 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
7 Li	45	1	78.19	ppb	1.00	75	104.3	90 - 110	
9 Be	45	1	116.90	ppb	1.58	120	97.4	90 - 110	
11 B	45	1	185.10	ppb	3.25	200	92.6	90 - 110	
23 Na	45	1	2042.00	ppb	0.72	2000	102.1	90 - 110	
24 Mg	45	1	2578.00	ppb	0.59	2500	103.1	90 - 110	
27 Al	45	1	3639.00	ppb	1.44	3500	104.0	90 - 110	
29 Si	45	1	160.90	ppb	6.15	200	80.5	90 - 110	Fail
34 S	45	1	10780.00	ppb	2.48	10000	107.8	90 - 110	
39 K	45	1	4171.00	ppb	1.21	4000	104.3	90 - 110	
44 Ca	45	1	2535.00	ppb	1.73	2500	101.4	90 - 110	
47 Ti	45	1	199.70	ppb	1.83	200	99.9	90 - 110	
51 V	45	1	61.90	ppb	0.81	60	103.2	90 - 110	
53 Cr	45	1	58.47	ppb	0.25	60	97.5	90 - 110	
55 Mn	45	1	42.03	ppb	1.19	40	105.1	90 - 110	
57 Fe	45	1	1007.00	ppb	1.76	1000	100.7	90 - 110	
59 Co	89	1	62.61	ppb	0.15	60	104.4	90 - 110	
60 Ni	89	1	60.70	ppb	0.30	60	101.2	90 - 110	
63 Cu	89	1	62.33	ppb	0.45	60	103.9	90 - 110	
66 Zn	89	1	61.52	ppb	0.04	60	102.5	90 - 110	
75 As	89	1	202.20	ppb	0.25	200	101.1	90 - 110	
78 Se	89	1	100.60	ppb	1.46	100	100.6	90 - 110	
90 Zr	89	1	163.20	ppb	0.50	165	98.9	90 - 110	
95 Mo	89	1	200.80	ppb	0.59	200	100.4	90 - 110	
107 Ag	115	1	62.01	ppb	0.72	60	103.4	90 - 110	
111 Cd	115	1	60.34	ppb	0.67	60	100.6	90 - 110	
118 Sn	115	1	198.70	ppb	0.66	200	99.4	90 - 110	
121 Sb	115	1	205.90	ppb	0.58	200	103.0	90 - 110	
137 Ba	115	1	57.95	ppb	1.49	60	96.6	90 - 110	
205 Tl	209	1	193.60	ppb	1.08	200	96.8	90 - 110	
207 Pb	209	1	205.70	ppb	1.13	200	102.9	90 - 110	
232 Th	209	1	72.39	ppb	0.69	75	96.5	90 - 110	
238 U	209	1	74.93	ppb	1.02	75	99.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	822661	1.12	687757	119.6	60 - 120	
89 Y	1	2781723	0.45	2478729	112.2	60 - 120	
115 In	1	3005242	0.37	2782821	108.0	60 - 120	
209 Bi	1	3736077	1.49	3789700	98.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22n00.B\023_CCB.D\023_CCB.D#
Date Acquired: Dec 22 2009 02:39 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 22 2009 02:02 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
7 Li	45	1	0.042	ppb	18.28	1.00	
9 Be	45	1	0.023	ppb	181.18	0.50	
11 B	45	1	1.411	ppb	115.10	15.00	
23 Na	45	1	4.074	ppb	15.18	50.00	
24 Mg	45	1	1.472	ppb	27.90	50.00	
27 Al	45	1	1.640	ppb	25.67	25.00	
29 Si	45	1	-7.198	ppb	9.17	50.00	
34 S	45	1	194.300	ppb	20.45	1000.00	
39 K	45	1	3.148	ppb	26.76	50.00	
44 Ca	45	1	4.249	ppb	39.75	50.00	
47 Ti	45	1	0.096	ppb	22.47	3.00	
51 V	45	1	0.006	ppb	79.94	0.50	
53 Cr	45	1	0.016	ppb	71.66	1.00	
55 Mn	45	1	0.141	ppb	8.12	1.20	
57 Fe	45	1	4.129	ppb	24.19	25.00	
59 Co	89	1	0.013	ppb	18.70	0.50	
60 Ni	89	1	0.074	ppb	17.24	0.50	
63 Cu	89	1	0.026	ppb	28.43	1.00	
66 Zn	89	1	0.052	ppb	99.29	5.00	
75 As	89	1	0.035	ppb	41.21	0.50	
78 Se	89	1	-0.140	ppb	88.03	1.00	
90 Zr	89	1	-0.050	ppb	14.59	1.50	
95 Mo	89	1	0.914	ppb	17.58	3.00	
107 Ag	115	1	0.002	ppb	214.34	0.50	
111 Cd	115	1	0.006	ppb	39.93	0.50	
118 Sn	115	1	0.921	ppb	16.54	3.00	
121 Sb	115	1	0.517	ppb	2.42	0.80	
137 Ba	115	1	0.006	ppb	265.45	0.50	
205 Tl	209	1	0.048	ppb	28.22	0.70	
207 Pb	209	1	0.042	ppb	21.98	0.50	
232 Th	209	1	0.285	ppb	8.95	1.00	
238 U	209	1	0.008	ppb	84.03	0.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	792659	1.61	687757	115.3	60 - 120	
89 Y	1	2719102	0.99	2478729	109.7	60 - 120	
115 In	1	3002279	0.43	2782821	107.9	60 - 120	
209 Bi	1	3854674	1.19	3789700	101.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22n00.B\011CALB.D\011CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#
Date Acquired: Dec 22 2009 02:58 pm
Acq. Method: STL5.M
Operator:
Sample Name: 0
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 02:02 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	29	63.28
9	Be	45	1	14	34.78
11	B	45	1	2662	12.81
23	Na	45	1	62390	26.85
24	Mg	45	1	3262	52.56
27	Al	45	1	1583	55.63
29	Si	45	1	4381	4.50
34	S	45	1	6317	2.49
39	K	45	1	61202	4.24
44	Ca	45	1	989	30.76
47	Ti	45	1	68	15.42
51	V	45	1	433	37.34
53	Cr	45	1	292	6.17
55	Mn	45	1	2540	9.87
57	Fe	45	1	1368	47.10
59	Co	89	1	1774	12.01
60	Ni	89	1	697	12.29
63	Cu	89	1	2365	11.77
66	Zn	89	1	1056	11.68
75	As	89	1	81	44.44
78	Se	89	1	74	17.82
90	Zr	89	1	2740	13.82
95	Mo	89	1	2739	9.03
107	Ag	115	1	429	34.10
111	Cd	115	1	76	61.78
118	Sn	115	1	7950	5.90
121	Sb	115	1	2398	6.33
137	Ba	115	1	110	42.76
205	Tl	209	1	10314	7.59
207	Pb	209	1	733	24.93
232	Th	209	1	2361	12.40
238	U	209	1	822	45.59

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	803890	1.43
89	Y	1	2738325	0.99
115	In	1	2992760	0.90
209	Bi	1	3793264	0.96

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\002CALS.D\002CALS.D#
Date Acquired: Dec 22 2009 03:02 pm
Acq. Method: STL5.M
Operator:
Sample Name: 50
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:00 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	12988	3.03
9	Be	45	1	10786	0.65
11	B	45	1	7310	0.36
23	Na	45	1	1195537	1.83
24	Mg	45	1	582350	1.52
27	Al	45	1	518691	1.45
29	Si	45	1	4982	1.19
34	S	45	1	8627	3.06
39	K	45	1	573625	2.00
44	Ca	45	1	28564	2.38
47	Ti	45	1	16573	1.85
51	V	45	1	448981	1.06
53	Cr	45	1	65613	0.79
55	Mn	45	1	342551	0.53
57	Fe	45	1	57616	2.07
59	Co	89	1	811475	1.19
60	Ni	89	1	210196	0.71
63	Cu	89	1	543654	0.39
66	Zn	89	1	89487	0.60
75	As	89	1	55230	1.11
78	Se	89	1	5380	1.78
90	Zr	89	1	579599	5.23
95	Mo	89	1	209040	0.37
107	Ag	115	1	704776	0.58
111	Cd	115	1	108244	0.80
118	Sn	115	1	215096	0.13
121	Sb	115	1	462283	2.85
137	Ba	115	1	101968	0.76
205	Tl	209	1	1066801	2.14
207	Pb	209	1	275943	1.47
232	Th	209	1	1142235	1.09
238	U	209	1	1192438	1.60

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	801372	0.45	803890	99.7	60 - 120	
89	Y	1	2761184	0.67	2738325	100.8	60 - 120	
115	In	1	3001471	1.26	2992760	100.3	60 - 120	
209	Bi	1	3824125	1.03	3793264	100.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\003CALS.D\003CALS.D#
Date Acquired: Dec 22 2009 03:05 pm
Acq. Method: STL5.M
Operator:
Sample Name: 100
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:03 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	25196	3.19
9	Be	45	1	21040	0.59
11	B	45	1	10705	1.61
23	Na	45	1	2231665	1.56
24	Mg	45	1	1057538	1.40
27	Al	45	1	864720	1.21
29	Si	45	1	5892	2.21
34	S	45	1	18810	2.58
39	K	45	1	1069226	1.37
44	Ca	45	1	55321	0.65
47	Ti	45	1	31908	1.16
51	V	45	1	876680	1.14
53	Cr	45	1	127458	1.37
55	Mn	45	1	668383	1.00
57	Fe	45	1	111177	1.64
59	Co	89	1	1557492	1.47
60	Ni	89	1	407066	0.89
63	Cu	89	1	1068536	0.54
66	Zn	89	1	173816	0.71
75	As	89	1	108530	0.84
78	Se	89	1	10427	2.01
90	Zr	89	1	1021870	1.35
95	Mo	89	1	405036	0.78
107	Ag	115	1	1351253	0.43
111	Cd	115	1	213001	0.55
118	Sn	115	1	422539	0.27
121	Sb	115	1	940692	1.97
137	Ba	115	1	200809	0.90
205	Tl	209	1	2093984	1.79
207	Pb	209	1	547137	1.55
232	Th	209	1	2356926	1.96
238	U	209	1	2345092	1.12

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	789277	1.09	803890	98.2	60 - 120	
89	Y	1	2696094	0.40	2738325	98.5	60 - 120	
115	In	1	2944828	0.04	2992760	98.4	60 - 120	
209	Bi	1	3779903	1.51	3793264	99.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\004CALS.D\004CALS.D#
Date Acquired: Dec 22 2009 03:09 pm
Acq. Method: STL5.M
Operator:
Sample Name: 500
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:06 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	125173	1.46
9	Be	45	1	103168	1.35
11	B	45	1	43150	2.14
23	Na	45	1	10915760	1.16
24	Mg	45	1	5139964	1.47
27	Al	45	1	4174192	1.35
29	Si	45	1	14126	1.50
34	S	45	1	57055	1.90
39	K	45	1	5008645	1.20
44	Ca	45	1	279004	0.66
47	Ti	45	1	166503	0.72
51	V	45	1	4252033	1.13
53	Cr	45	1	638030	1.02
55	Mn	45	1	3187277	1.36
57	Fe	45	1	558794	0.91
59	Co	89	1	7504503	0.30
60	Ni	89	1	1994442	0.77
63	Cu	89	1	5000500	0.62
66	Zn	89	1	848345	0.92
75	As	89	1	542953	0.31
78	Se	89	1	52182	1.20
90	Zr	89	1	5087183	0.46
95	Mo	89	1	2103669	0.39
107	Ag	115	1	6433071	1.35
111	Cd	115	1	1060739	0.91
118	Sn	115	1	2239514	1.43
121	Sb	115	1	4938656	0.87
137	Ba	115	1	1031308	0.90
205	Tl	209	1	10273370	1.30
207	Pb	209	1	2746601	1.29
232	Th	209	1	11971200	0.43
238	U	209	1	11816590	0.76

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	804040	0.98	803890	100.0	60 - 120	
89	Y	1	2732037	0.19	2738325	99.8	60 - 120	
115	In	1	2975236	0.56	2992760	99.4	60 - 120	
209	Bi	1	3836152	1.02	3793264	101.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\005_CCV.D\005_CCV.D#
Date Acquired: Dec 22 2009 03:12 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 22 2009 03:10 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
7 Li	45	1	79.18	ppb	0.98	75	105.6	90 - 110	
9 Be	45	1	119.00	ppb	0.62	120	99.2	90 - 110	
11 B	45	1	192.50	ppb	0.79	200	96.3	90 - 110	
23 Na	45	1	2045.00	ppb	1.84	2000	102.3	90 - 110	
24 Mg	45	1	2566.00	ppb	1.60	2500	102.6	90 - 110	
27 Al	45	1	3660.00	ppb	1.20	3500	104.6	90 - 110	
29 Si	45	1	174.50	ppb	7.82	200	87.3	90 - 110	Fail
34 S	45	1	10500.00	ppb	1.22	10000	105.0	90 - 110	
39 K	45	1	4109.00	ppb	1.58	4000	102.7	90 - 110	
44 Ca	45	1	2517.00	ppb	2.18	2500	100.7	90 - 110	
47 Ti	45	1	197.50	ppb	1.20	200	98.8	90 - 110	
51 V	45	1	62.07	ppb	1.50	60	103.5	90 - 110	
53 Cr	45	1	59.25	ppb	1.10	60	98.8	90 - 110	
55 Mn	45	1	41.69	ppb	1.42	40	104.2	90 - 110	
57 Fe	45	1	994.80	ppb	1.17	1000	99.5	90 - 110	
59 Co	89	1	62.73	ppb	1.63	60	104.6	90 - 110	
60 Ni	89	1	60.52	ppb	0.43	60	100.9	90 - 110	
63 Cu	89	1	62.11	ppb	0.43	60	103.5	90 - 110	
66 Zn	89	1	60.95	ppb	0.98	60	101.6	90 - 110	
75 As	89	1	202.40	ppb	0.79	200	101.2	90 - 110	
78 Se	89	1	98.64	ppb	1.19	100	98.6	90 - 110	
90 Zr	89	1	159.60	ppb	0.11	165	96.7	90 - 110	
95 Mo	89	1	203.20	ppb	1.50	200	101.6	90 - 110	
107 Ag	115	1	62.96	ppb	1.05	60	104.9	90 - 110	
111 Cd	115	1	59.83	ppb	1.04	60	99.7	90 - 110	
118 Sn	115	1	197.20	ppb	0.46	200	98.6	90 - 110	
121 Sb	115	1	215.30	ppb	0.98	200	107.7	90 - 110	
137 Ba	115	1	58.62	ppb	0.97	60	97.7	90 - 110	
205 Tl	209	1	191.10	ppb	1.68	200	95.6	90 - 110	
207 Pb	209	1	204.90	ppb	1.82	200	102.5	90 - 110	
232 Th	209	1	76.28	ppb	2.36	75	101.7	90 - 110	
238 U	209	1	75.80	ppb	1.86	75	101.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	792873	1.06	803890	98.6	60 - 120	
89 Y	1	2710215	0.26	2738325	99.0	60 - 120	
115 In	1	2992222	0.28	2992760	100.0	60 - 120	
209 Bi	1	3941700	1.49	3793264	103.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\006_CCB.D\006_CCB.D#
Date Acquired: Dec 22 2009 03:21 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 22 2009 03:10 pm
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
7 Li	45	1	0.091	ppb	32.92	1.00	
9 Be	45	1	0.037	ppb	136.88	0.50	
11 B	45	1	3.034	ppb	14.84	15.00	
23 Na	45	1	6.164	ppb	49.25	50.00	
24 Mg	45	1	1.862	ppb	48.71	50.00	
27 Al	45	1	2.676	ppb	46.26	25.00	
29 Si	45	1	2.411	ppb	132.81	50.00	
34 S	45	1	216.700	ppb	46.02	1000.00	
39 K	45	1	2.551	ppb	91.38	50.00	
44 Ca	45	1	5.197	ppb	64.96	50.00	
47 Ti	45	1	0.142	ppb	40.04	3.00	
51 V	45	1	0.036	ppb	75.38	0.50	
53 Cr	45	1	0.026	ppb	94.49	1.00	
55 Mn	45	1	0.133	ppb	24.07	1.20	
57 Fe	45	1	3.180	ppb	44.56	25.00	
59 Co	89	1	0.064	ppb	37.98	0.50	
60 Ni	89	1	0.071	ppb	46.33	0.50	
63 Cu	89	1	-0.042	ppb	56.31	1.00	
66 Zn	89	1	0.006	ppb	290.41	5.00	
75 As	89	1	0.069	ppb	49.06	0.50	
78 Se	89	1	0.158	ppb	34.98	1.00	
90 Zr	89	1	-0.046	ppb	64.11	1.50	
95 Mo	89	1	0.482	ppb	14.09	3.00	
107 Ag	115	1	0.011	ppb	77.72	0.50	
111 Cd	115	1	0.037	ppb	91.49	0.50	
118 Sn	115	1	1.080	ppb	11.94	3.00	
121 Sb	115	1	0.844	ppb	3.30	0.80	Fail
137 Ba	115	1	0.035	ppb	99.11	0.50	
205 Tl	209	1	0.067	ppb	62.73	0.70	
207 Pb	209	1	0.086	ppb	32.36	0.50	
232 Th	209	1	0.902	ppb	5.14	1.00	
238 U	209	1	0.044	ppb	55.10	0.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	741841	0.38	803890	92.3	60 - 120	
89 Y	1	2614196	2.34	2738325	95.5	60 - 120	
115 In	1	2908955	2.66	2992760	97.2	60 - 120	
209 Bi	1	3947008	0.95	3793264	104.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\007SMPL.D\007SMPL.D#
Date Acquired: Dec 22 2009 03:25 pm
Acq. Method: STL5.M
Operator:
Sample Name: mb 220-34468/1-a
Misc Info:
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.42	0.42	ppb	42.45	550	
9 Be	45	1	0.05	0.05	ppb	139.81	10000	
11 B	45	1	1.96	1.96	ppb	75.60	550	
23 Na	45	1	10.32	10.32	ppb	47.07	300000	
24 Mg	45	1	1.28	1.28	ppb	112.44	125000	
27 Al	45	1	2.59	2.59	ppb	65.32	62500	
29 Si	45	1	24.68	24.68	ppb	43.80	12500	
34 S	45	1	213.10	213.10	ppb	28.19	21000	
39 K	45	1	5.92	5.92	ppb	47.79	125000	
44 Ca	45	1	5.64	5.64	ppb	66.02	125000	
47 Ti	45	1	0.09	0.09	ppb	108.72	12500	
51 V	45	1	0.13	0.13	ppb	22.33	12500	
53 Cr	45	1	0.29	0.29	ppb	20.27	12500	
55 Mn	45	1	-0.01	-0.01	ppb	565.70	12500	
57 Fe	45	1	2.25	2.25	ppb	81.74	65000	
59 Co	89	1	0.00	0.00	ppb	1342.70	12500	
60 Ni	89	1	0.11	0.11	ppb	50.76	2500	
63 Cu	89	1	0.05	0.05	ppb	44.27	2500	
66 Zn	89	1	0.08	0.08	ppb	53.82	2500	
75 As	89	1	0.07	0.07	ppb	80.32	12500	
78 Se	89	1	0.00	0.00	ppb	2174.50	10000	
90 Zr	89	1	0.09	0.09	ppb	44.82	550	
95 Mo	89	1	0.21	0.21	ppb	20.22	12500	
107 Ag	115	1	0.04	0.04	ppb	33.95	1000	
111 Cd	115	1	0.04	0.04	ppb	79.68	10000	
118 Sn	115	1	0.62	0.62	ppb	9.60	2500	
121 Sb	115	1	0.46	0.46	ppb	6.86	2500	
137 Ba	115	1	0.03	0.03	ppb	133.87	10000	
205 Tl	209	1	-0.05	-0.05	ppb	164.40	12500	
207 Pb	209	1	0.13	0.13	ppb	43.03	12500	
232 Th	209	1	0.28	0.28	ppb	4.80	550	
238 U	209	1	0.03	0.03	ppb	140.50	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	747754	0.94	803890	93.0	60 - 120	
89 Y	1	2602031	1.03	2738325	95.0	60 - 120	
115 In	1	2859124	1.45	2992760	95.5	60 - 120	
209 Bi	1	3931837	1.22	3793264	103.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\008SMPL.D\008SMPL.D#
Date Acquired: Dec 22 2009 03:28 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-1-e
Misc Info:
Vial Number: 2302
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.60	0.60	ppb	8.03	550	
9 Be	45	1	0.03	0.03	ppb	116.95	10000	
11 B	45	1	131.50	131.50	ppb	3.62	550	
23 Na	45	1	31,880.00	31880.00	ppb	0.42	300000	
24 Mg	45	1	1,393.00	1393.00	ppb	1.33	125000	
27 Al	45	1	56.93	56.93	ppb	3.27	62500	
29 Si	45	1	1,014.00	1014.00	ppb	1.26	12500	
34 S	45	1	5,091.00	5091.00	ppb	1.47	21000	
39 K	45	1	1,148.00	1148.00	ppb	0.49	125000	
44 Ca	45	1	12,310.00	12310.00	ppb	0.40	125000	
47 Ti	45	1	1.09	1.09	ppb	1.96	12500	
51 V	45	1	0.21	0.21	ppb	6.90	12500	
53 Cr	45	1	1.17	1.17	ppb	4.89	12500	
55 Mn	45	1	7.34	7.34	ppb	0.14	12500	
57 Fe	45	1	38.63	38.63	ppb	1.80	65000	
59 Co	89	1	0.58	0.58	ppb	5.88	12500	
60 Ni	89	1	4.02	4.02	ppb	0.60	2500	
63 Cu	89	1	0.45	0.45	ppb	7.96	2500	
66 Zn	89	1	13.54	13.54	ppb	1.20	2500	
75 As	89	1	0.12	0.12	ppb	22.42	12500	
78 Se	89	1	0.36	0.36	ppb	46.53	10000	
90 Zr	89	1	0.23	0.23	ppb	8.54	550	
95 Mo	89	1	0.27	0.27	ppb	16.03	12500	
107 Ag	115	1	0.07	0.07	ppb	6.03	1000	
111 Cd	115	1	4.01	4.01	ppb	0.91	10000	
118 Sn	115	1	0.40	0.40	ppb	20.36	2500	
121 Sb	115	1	0.39	0.39	ppb	11.85	2500	
137 Ba	115	1	13.62	13.62	ppb	0.41	10000	
205 Tl	209	1	-0.17	-0.17	ppb	12.64	12500	
207 Pb	209	1	0.15	0.15	ppb	24.62	12500	
232 Th	209	1	0.22	0.22	ppb	5.98	550	
238 U	209	1	0.04	0.04	ppb	43.96	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	785312	0.62	803890	97.7	60 - 120	
89 Y	1	2697015	0.58	2738325	98.5	60 - 120	
115 In	1	2911113	0.85	2992760	97.3	60 - 120	
209 Bi	1	3802719	1.25	3793264	100.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\009SMPL.D\009SMPL.D#
Date Acquired: Dec 22 2009 03:32 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-1-f du
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.57	0.57	ppb	32.01	550	
9 Be	45	1	0.04	0.04	ppb	75.32	10000	
11 B	45	1	130.90	130.90	ppb	2.46	550	
23 Na	45	1	31,410.00	31410.00	ppb	1.16	300000	
24 Mg	45	1	1,373.00	1373.00	ppb	0.76	125000	
27 Al	45	1	53.35	53.35	ppb	1.08	62500	
29 Si	45	1	995.30	995.30	ppb	1.04	12500	
34 S	45	1	4,981.00	4981.00	ppb	3.05	21000	
39 K	45	1	1,138.00	1138.00	ppb	1.58	125000	
44 Ca	45	1	12,130.00	12130.00	ppb	1.36	125000	
47 Ti	45	1	1.18	1.18	ppb	13.95	12500	
51 V	45	1	0.20	0.20	ppb	7.19	12500	
53 Cr	45	1	1.13	1.13	ppb	5.93	12500	
55 Mn	45	1	7.26	7.26	ppb	1.32	12500	
57 Fe	45	1	36.34	36.34	ppb	2.86	65000	
59 Co	89	1	0.55	0.55	ppb	2.94	12500	
60 Ni	89	1	4.04	4.04	ppb	1.20	2500	
63 Cu	89	1	0.40	0.40	ppb	7.87	2500	
66 Zn	89	1	13.52	13.52	ppb	1.44	2500	
75 As	89	1	0.10	0.10	ppb	27.40	12500	
78 Se	89	1	0.34	0.34	ppb	53.59	10000	
90 Zr	89	1	0.07	0.07	ppb	27.65	550	
95 Mo	89	1	0.17	0.17	ppb	13.83	12500	
107 Ag	115	1	0.06	0.06	ppb	4.66	1000	
111 Cd	115	1	3.85	3.85	ppb	2.55	10000	
118 Sn	115	1	0.21	0.21	ppb	26.09	2500	
121 Sb	115	1	0.24	0.24	ppb	18.04	2500	
137 Ba	115	1	13.31	13.31	ppb	1.05	10000	
205 Tl	209	1	-0.19	-0.19	ppb	3.60	12500	
207 Pb	209	1	0.11	0.11	ppb	12.45	12500	
232 Th	209	1	0.11	0.11	ppb	11.00	550	
238 U	209	1	0.03	0.03	ppb	56.29	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	815293	1.28	803890	101.4	60 - 120	
89 Y	1	2769232	0.88	2738325	101.1	60 - 120	
115 In	1	2954392	0.68	2992760	98.7	60 - 120	
209 Bi	1	3749157	0.51	3793264	98.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\010SMPL.D\010SMPL.D#
Date Acquired: Dec 22 2009 03:35 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-1-g ms
Misc Info:
Vial Number: 2304
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.54	0.54	ppb	16.98	550	
9 Be	45	1	3.88	3.88	ppb	3.22	10000	
11 B	45	1	225.90	225.90	ppb	1.00	550	
23 Na	45	1	31,270.00	31270.00	ppb	0.97	300000	
24 Mg	45	1	2,003.00	2003.00	ppb	1.20	125000	
27 Al	45	1	464.20	464.20	ppb	1.52	62500	
29 Si	45	1	1,062.00	1062.00	ppb	1.30	12500	
34 S	45	1	4,829.00	4829.00	ppb	2.56	21000	
39 K	45	1	2,583.00	2583.00	ppb	1.77	125000	
44 Ca	45	1	11,090.00	11090.00	ppb	1.15	125000	
47 Ti	45	1	105.20	105.20	ppb	1.36	12500	
51 V	45	1	12.66	12.66	ppb	1.51	12500	
53 Cr	45	1	12.70	12.70	ppb	0.69	12500	
55 Mn	45	1	15.23	15.23	ppb	0.94	12500	
57 Fe	45	1	351.30	351.30	ppb	1.20	65000	
59 Co	89	1	13.11	13.11	ppb	0.34	12500	
60 Ni	89	1	15.88	15.88	ppb	1.03	2500	
63 Cu	89	1	12.83	12.83	ppb	0.86	2500	
66 Zn	89	1	24.97	24.97	ppb	0.14	2500	
75 As	89	1	41.15	41.15	ppb	1.01	12500	
78 Se	89	1	19.64	19.64	ppb	2.85	10000	
90 Zr	89	1	104.40	104.40	ppb	1.24	550	
95 Mo	89	1	101.50	101.50	ppb	0.33	12500	
107 Ag	115	1	12.48	12.48	ppb	0.36	1000	
111 Cd	115	1	15.81	15.81	ppb	0.88	10000	
118 Sn	115	1	100.60	100.60	ppb	0.06	2500	
121 Sb	115	1	109.50	109.50	ppb	0.48	2500	
137 Ba	115	1	24.67	24.67	ppb	0.83	10000	
205 Tl	209	1	36.31	36.31	ppb	1.00	12500	
207 Pb	209	1	40.19	40.19	ppb	1.39	12500	
232 Th	209	1	0.51	0.51	ppb	5.58	550	
238 U	209	1	19.73	19.73	ppb	1.38	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	827399	0.92	803890	102.9	60 - 120	
89 Y	1	2763264	0.35	2738325	100.9	60 - 120	
115 In	1	2949008	0.46	2992760	98.5	60 - 120	
209 Bi	1	3750599	1.32	3793264	98.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\011SMPL.D\011SMPL.D#
Date Acquired: Dec 22 2009 03:39 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-1-h msd
Misc Info:
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.47	0.47	ppb	25.38	550	
9 Be	45	1	3.93	3.93	ppb	5.95	10000	
11 B	45	1	221.20	221.20	ppb	2.14	550	
23 Na	45	1	30,540.00	30540.00	ppb	0.77	300000	
24 Mg	45	1	1,960.00	1960.00	ppb	1.22	125000	
27 Al	45	1	455.10	455.10	ppb	2.00	62500	
29 Si	45	1	1,044.00	1044.00	ppb	3.37	12500	
34 S	45	1	4,753.00	4753.00	ppb	1.83	21000	
39 K	45	1	2,558.00	2558.00	ppb	2.52	125000	
44 Ca	45	1	10,910.00	10910.00	ppb	2.24	125000	
47 Ti	45	1	105.30	105.30	ppb	1.73	12500	
51 V	45	1	12.60	12.60	ppb	0.91	12500	
53 Cr	45	1	12.80	12.80	ppb	1.64	12500	
55 Mn	45	1	14.99	14.99	ppb	1.79	12500	
57 Fe	45	1	340.30	340.30	ppb	1.34	65000	
59 Co	89	1	13.02	13.02	ppb	0.62	12500	
60 Ni	89	1	15.77	15.77	ppb	0.42	2500	
63 Cu	89	1	12.62	12.62	ppb	0.73	2500	
66 Zn	89	1	24.79	24.79	ppb	1.07	2500	
75 As	89	1	41.16	41.16	ppb	0.51	12500	
78 Se	89	1	20.07	20.07	ppb	5.74	10000	
90 Zr	89	1	106.40	106.40	ppb	0.22	550	
95 Mo	89	1	101.30	101.30	ppb	0.99	12500	
107 Ag	115	1	12.42	12.42	ppb	0.77	1000	
111 Cd	115	1	15.59	15.59	ppb	2.28	10000	
118 Sn	115	1	99.95	99.95	ppb	0.59	2500	
121 Sb	115	1	107.70	107.70	ppb	1.21	2500	
137 Ba	115	1	24.14	24.14	ppb	0.73	10000	
205 Tl	209	1	36.82	36.82	ppb	0.78	12500	
207 Pb	209	1	40.47	40.47	ppb	1.29	12500	
232 Th	209	1	0.20	0.20	ppb	10.23	550	
238 U	209	1	19.44	19.44	ppb	0.42	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	839712	1.22	803890	104.5	60 - 120	
89 Y	1	2815049	0.85	2738325	102.8	60 - 120	
115 In	1	3013638	1.16	2992760	100.7	60 - 120	
209 Bi	1	3795580	0.36	3793264	100.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\012SMPL.D\012SMPL.D#
Date Acquired: Dec 22 2009 03:42 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-1-e sd@5
Misc Info:
Vial Number: 2306
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.10	0.10	ppb	73.14	550	
9 Be	45	1	0.02	0.02	ppb	284.22	10000	
11 B	45	1	29.99	29.99	ppb	6.80	550	
23 Na	45	1	6,493.00	6493.00	ppb	1.09	300000	
24 Mg	45	1	309.10	309.10	ppb	0.62	125000	
27 Al	45	1	13.63	13.63	ppb	2.99	62500	
29 Si	45	1	214.00	214.00	ppb	6.51	12500	
34 S	45	1	1,205.00	1205.00	ppb	5.04	21000	
39 K	45	1	289.60	289.60	ppb	1.38	125000	
44 Ca	45	1	2,493.00	2493.00	ppb	0.73	125000	
47 Ti	45	1	0.40	0.40	ppb	16.89	12500	
51 V	45	1	0.06	0.06	ppb	12.55	12500	
53 Cr	45	1	0.25	0.25	ppb	6.37	12500	
55 Mn	45	1	1.48	1.48	ppb	1.03	12500	
57 Fe	45	1	8.69	8.69	ppb	5.21	65000	
59 Co	89	1	0.11	0.11	ppb	5.11	12500	
60 Ni	89	1	0.91	0.91	ppb	1.09	2500	
63 Cu	89	1	0.01	0.01	ppb	363.88	2500	
66 Zn	89	1	3.88	3.88	ppb	1.59	2500	
75 As	89	1	0.05	0.05	ppb	42.57	12500	
78 Se	89	1	-0.09	-0.09	ppb	159.51	10000	
90 Zr	89	1	0.27	0.27	ppb	2.95	550	
95 Mo	89	1	0.99	0.99	ppb	11.06	12500	
107 Ag	115	1	0.01	0.01	ppb	16.88	1000	
111 Cd	115	1	0.78	0.78	ppb	1.79	10000	
118 Sn	115	1	1.69	1.69	ppb	6.13	2500	
121 Sb	115	1	0.38	0.38	ppb	4.06	2500	
137 Ba	115	1	2.74	2.74	ppb	3.21	10000	
205 Tl	209	1	0.15	0.15	ppb	34.02	12500	
207 Pb	209	1	0.07	0.07	ppb	22.77	12500	
232 Th	209	1	-0.09	-0.09	ppb	6.19	550	
238 U	209	1	0.01	0.01	ppb	54.23	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	822398	0.46	803890	102.3	60 - 120	
89 Y	1	2770774	1.14	2738325	101.2	60 - 120	
115 In	1	3036087	1.07	2992760	101.4	60 - 120	
209 Bi	1	3929757	0.90	3793264	103.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\013SMPL.D\013SMPL.D#
Date Acquired: Dec 22 2009 03:46 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-2-b
Misc Info:
Vial Number: 2307
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.50	0.50	ppb	29.57	550	
9 Be	45	1	0.01	0.01	ppb	233.47	10000	
11 B	45	1	136.00	136.00	ppb	1.84	550	
23 Na	45	1	31,970.00	31970.00	ppb	1.50	300000	
24 Mg	45	1	1,400.00	1400.00	ppb	1.68	125000	
27 Al	45	1	122.10	122.10	ppb	1.36	62500	
29 Si	45	1	1,060.00	1060.00	ppb	1.64	12500	
34 S	45	1	5,327.00	5327.00	ppb	1.89	21000	
39 K	45	1	1,154.00	1154.00	ppb	2.82	125000	
44 Ca	45	1	11,090.00	11090.00	ppb	2.19	125000	
47 Ti	45	1	3.50	3.50	ppb	3.36	12500	
51 V	45	1	0.32	0.32	ppb	10.14	12500	
53 Cr	45	1	2.31	2.31	ppb	3.22	12500	
55 Mn	45	1	8.20	8.20	ppb	1.23	12500	
57 Fe	45	1	97.44	97.44	ppb	1.33	65000	
59 Co	89	1	0.56	0.56	ppb	1.04	12500	
60 Ni	89	1	3.83	3.83	ppb	2.02	2500	
63 Cu	89	1	2.19	2.19	ppb	0.56	2500	
66 Zn	89	1	15.43	15.43	ppb	1.47	2500	
75 As	89	1	0.12	0.12	ppb	32.46	12500	
78 Se	89	1	0.53	0.53	ppb	53.19	10000	
90 Zr	89	1	0.71	0.71	ppb	1.90	550	
95 Mo	89	1	0.32	0.32	ppb	0.62	12500	
107 Ag	115	1	0.07	0.07	ppb	49.52	1000	
111 Cd	115	1	3.70	3.70	ppb	0.31	10000	
118 Sn	115	1	0.63	0.63	ppb	8.33	2500	
121 Sb	115	1	0.14	0.14	ppb	13.82	2500	
137 Ba	115	1	13.29	13.29	ppb	1.43	10000	
205 Tl	209	1	-0.16	-0.16	ppb	2.94	12500	
207 Pb	209	1	0.30	0.30	ppb	9.33	12500	
232 Th	209	1	-0.07	-0.07	ppb	12.08	550	
238 U	209	1	0.02	0.02	ppb	58.00	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	809365	1.45	803890	100.7	60 - 120	
89 Y	1	2752235	0.29	2738325	100.5	60 - 120	
115 In	1	2938991	0.76	2992760	98.2	60 - 120	
209 Bi	1	3777150	1.30	3793264	99.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\014SMPL.D\014SMPL.D#
Date Acquired: Dec 22 2009 03:50 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-3-b
Misc Info:
Vial Number: 2308
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.28	0.28	ppb	17.27	550	
9 Be	45	1	0.02	0.02	ppb	57.63	10000	
11 B	45	1	227.80	227.80	ppb	1.34	550	
23 Na	45	1	20,120.00	20120.00	ppb	1.46	300000	
24 Mg	45	1	1,994.00	1994.00	ppb	1.72	125000	
27 Al	45	1	3.25	3.25	ppb	30.52	62500	
29 Si	45	1	680.60	680.60	ppb	3.88	12500	
34 S	45	1	3,330.00	3330.00	ppb	3.14	21000	
39 K	45	1	959.20	959.20	ppb	2.21	125000	
44 Ca	45	1	13,140.00	13140.00	ppb	1.55	125000	
47 Ti	45	1	0.12	0.12	ppb	40.59	12500	
51 V	45	1	0.51	0.51	ppb	4.06	12500	
53 Cr	45	1	0.40	0.40	ppb	31.49	12500	
55 Mn	45	1	0.34	0.34	ppb	11.50	12500	
57 Fe	45	1	7.68	7.68	ppb	14.48	65000	
59 Co	89	1	0.04	0.04	ppb	62.90	12500	
60 Ni	89	1	0.09	0.09	ppb	20.81	2500	
63 Cu	89	1	0.31	0.31	ppb	9.75	2500	
66 Zn	89	1	0.29	0.29	ppb	10.82	2500	
75 As	89	1	0.11	0.11	ppb	25.83	12500	
78 Se	89	1	0.51	0.51	ppb	70.56	10000	
90 Zr	89	1	0.34	0.34	ppb	10.25	550	
95 Mo	89	1	0.89	0.89	ppb	5.13	12500	
107 Ag	115	1	0.01	0.01	ppb	65.76	1000	
111 Cd	115	1	0.34	0.34	ppb	10.59	10000	
118 Sn	115	1	0.31	0.31	ppb	33.05	2500	
121 Sb	115	1	0.18	0.18	ppb	36.85	2500	
137 Ba	115	1	3.48	3.48	ppb	4.27	10000	
205 Tl	209	1	-0.20	-0.20	ppb	10.73	12500	
207 Pb	209	1	0.03	0.03	ppb	118.10	12500	
232 Th	209	1	-0.08	-0.08	ppb	18.64	550	
238 U	209	1	0.03	0.03	ppb	77.32	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	826455	1.72	803890	102.8	60 - 120	
89 Y	1	2770627	0.88	2738325	101.2	60 - 120	
115 In	1	2977539	0.83	2992760	99.5	60 - 120	
209 Bi	1	3824626	0.72	3793264	100.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\015SMPL.D\015SMPL.D#
Date Acquired: Dec 22 2009 03:53 pm
Acq. Method: STL5.M
Operator:
Sample Name: lcs 220-34468/2-a
Misc Info:
Vial Number: 2309
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.32	0.32	ppb	30.22	550	
9 Be	45	1	10.70	10.70	ppb	4.09	10000	
11 B	45	1	110.00	110.00	ppb	1.12	550	
23 Na	45	1	3,253.00	3253.00	ppb	1.23	300000	
24 Mg	45	1	1,633.00	1633.00	ppb	1.07	125000	
27 Al	45	1	775.10	775.10	ppb	1.68	62500	
29 Si	45	1	118.40	118.40	ppb	9.59	12500	
34 S	45	1	368.20	368.20	ppb	11.45	21000	
39 K	45	1	2,220.00	2220.00	ppb	1.50	125000	
44 Ca	45	1	3,087.00	3087.00	ppb	2.13	125000	
47 Ti	45	1	107.10	107.10	ppb	1.64	12500	
51 V	45	1	32.95	32.95	ppb	1.12	12500	
53 Cr	45	1	31.73	31.73	ppb	1.79	12500	
55 Mn	45	1	21.88	21.88	ppb	1.19	12500	
57 Fe	45	1	2,508.00	2508.00	ppb	1.34	65000	
59 Co	89	1	34.33	34.33	ppb	0.56	12500	
60 Ni	89	1	33.17	33.17	ppb	1.10	2500	
63 Cu	89	1	34.07	34.07	ppb	0.64	2500	
66 Zn	89	1	33.10	33.10	ppb	1.20	2500	
75 As	89	1	109.40	109.40	ppb	0.64	12500	
78 Se	89	1	53.52	53.52	ppb	1.48	10000	
90 Zr	89	1	110.10	110.10	ppb	0.48	550	
95 Mo	89	1	104.80	104.80	ppb	0.51	12500	
107 Ag	115	1	33.94	33.94	ppb	0.66	1000	
111 Cd	115	1	31.76	31.76	ppb	0.56	10000	
118 Sn	115	1	104.40	104.40	ppb	0.38	2500	
121 Sb	115	1	110.20	110.20	ppb	0.55	2500	
137 Ba	115	1	30.67	30.67	ppb	0.90	10000	
205 Tl	209	1	97.95	97.95	ppb	2.41	12500	
207 Pb	209	1	106.50	106.50	ppb	1.28	12500	
232 Th	209	1	0.11	0.11	ppb	24.64	550	
238 U	209	1	19.61	19.61	ppb	0.62	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	860681	0.67	803890	107.1	60 - 120	
89 Y	1	2839152	0.21	2738325	103.7	60 - 120	
115 In	1	3077843	0.40	2992760	102.8	60 - 120	
209 Bi	1	4013164	0.94	3793264	105.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\016SMPL.D\016SMPL.D#
Date Acquired: Dec 22 2009 03:57 pm
Acq. Method: STL5.M
Operator:
Sample Name: lb 220-34378/1-c
Misc Info:
Vial Number: 2310
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.21	0.21	ppb	30.73	550	
9 Be	45	1	0.01	0.01	ppb	320.93	10000	
11 B	45	1	1.76	1.76	ppb	45.32	550	
23 Na	45	1	21.77	21.77	ppb	38.75	300000	
24 Mg	45	1	2.14	2.14	ppb	46.35	125000	
27 Al	45	1	3.82	3.82	ppb	27.00	62500	
29 Si	45	1	15.38	15.38	ppb	16.47	12500	
34 S	45	1	551.00	551.00	ppb	11.52	21000	
39 K	45	1	6.70	6.70	ppb	35.51	125000	
44 Ca	45	1	8.31	8.31	ppb	60.31	125000	
47 Ti	45	1	0.28	0.28	ppb	36.30	12500	
51 V	45	1	0.15	0.15	ppb	16.31	12500	
53 Cr	45	1	0.44	0.44	ppb	4.25	12500	
55 Mn	45	1	0.05	0.05	ppb	39.06	12500	
57 Fe	45	1	6.17	6.17	ppb	15.54	65000	
59 Co	89	1	-0.01	-0.01	ppb	252.83	12500	
60 Ni	89	1	0.13	0.13	ppb	15.77	2500	
63 Cu	89	1	0.14	0.14	ppb	10.20	2500	
66 Zn	89	1	0.29	0.29	ppb	5.46	2500	
75 As	89	1	0.11	0.11	ppb	33.46	12500	
78 Se	89	1	0.01	0.01	ppb	972.93	10000	
90 Zr	89	1	0.61	0.61	ppb	1.77	550	
95 Mo	89	1	0.84	0.84	ppb	6.65	12500	
107 Ag	115	1	0.01	0.01	ppb	77.27	1000	
111 Cd	115	1	0.01	0.01	ppb	79.91	10000	
118 Sn	115	1	1.26	1.26	ppb	6.19	2500	
121 Sb	115	1	0.35	0.35	ppb	4.23	2500	
137 Ba	115	1	0.03	0.03	ppb	90.70	10000	
205 Tl	209	1	0.43	0.43	ppb	22.17	12500	
207 Pb	209	1	0.07	0.07	ppb	53.35	12500	
232 Th	209	1	-0.11	-0.11	ppb	9.34	550	
238 U	209	1	0.02	0.02	ppb	99.81	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	796694	0.34	803890	99.1	60 - 120	
89 Y	1	2708968	1.40	2738325	98.9	60 - 120	
115 In	1	2956773	1.58	2992760	98.8	60 - 120	
209 Bi	1	3971102	0.71	3793264	104.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\017SMPL.D\017SMPL.D#
Date Acquired: Dec 22 2009 04:00 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	81.77	81.77	ppb	1.57	550	
9 Be	45	1	121.20	121.20	ppb	1.02	10000	
11 B	45	1	195.20	195.20	ppb	0.94	550	
23 Na	45	1	2,078.00	2078.00	ppb	1.70	300000	
24 Mg	45	1	2,619.00	2619.00	ppb	0.86	125000	
27 Al	45	1	3,689.00	3689.00	ppb	1.64	62500	
29 Si	45	1	162.60	162.60	ppb	10.02	12500	
34 S	45	1	10,930.00	10930.00	ppb	2.87	21000	
39 K	45	1	4,135.00	4135.00	ppb	2.06	125000	
44 Ca	45	1	2,542.00	2542.00	ppb	1.09	125000	
47 Ti	45	1	200.30	200.30	ppb	2.40	12500	
51 V	45	1	62.17	62.17	ppb	1.82	12500	
53 Cr	45	1	58.68	58.68	ppb	2.01	12500	
55 Mn	45	1	41.66	41.66	ppb	1.41	12500	
57 Fe	45	1	991.40	991.40	ppb	1.30	65000	
59 Co	89	1	63.32	63.32	ppb	1.50	12500	
60 Ni	89	1	60.82	60.82	ppb	1.07	2500	
63 Cu	89	1	62.39	62.39	ppb	0.20	2500	
66 Zn	89	1	60.91	60.91	ppb	0.81	2500	
75 As	89	1	201.80	201.80	ppb	0.60	12500	
78 Se	89	1	99.90	99.90	ppb	2.28	10000	
90 Zr	89	1	168.40	168.40	ppb	0.70	550	
95 Mo	89	1	197.50	197.50	ppb	0.88	12500	
107 Ag	115	1	63.00	63.00	ppb	0.53	1000	
111 Cd	115	1	60.10	60.10	ppb	0.93	10000	
118 Sn	115	1	194.40	194.40	ppb	0.96	2500	
121 Sb	115	1	205.10	205.10	ppb	1.82	2500	
137 Ba	115	1	58.72	58.72	ppb	1.19	10000	
205 Tl	209	1	190.70	190.70	ppb	1.50	12500	
207 Pb	209	1	203.30	203.30	ppb	0.33	12500	
232 Th	209	1	71.64	71.64	ppb	2.26	550	
238 U	209	1	75.94	75.94	ppb	0.38	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	778970	0.83	803890	96.9	60 - 120	
89 Y	1	2657607	0.17	2738325	97.1	60 - 120	
115 In	1	2927009	0.94	2992760	97.8	60 - 120	
209 Bi	1	3904517	0.77	3793264	102.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\018SMPL.D\018SMPL.D#
Date Acquired: Dec 22 2009 04:07 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2312
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.01	0.01	ppb	510.99	550	
9 Be	45	1	0.01	0.01	ppb	177.82	10000	
11 B	45	1	2.80	2.80	ppb	17.59	550	
23 Na	45	1	6.57	6.57	ppb	34.07	300000	
24 Mg	45	1	1.05	1.05	ppb	30.58	125000	
27 Al	45	1	1.16	1.16	ppb	26.29	62500	
29 Si	45	1	4.53	4.53	ppb	124.29	12500	
34 S	45	1	322.40	322.40	ppb	17.54	21000	
39 K	45	1	2.10	2.10	ppb	45.64	125000	
44 Ca	45	1	2.87	2.87	ppb	65.20	125000	
47 Ti	45	1	0.09	0.09	ppb	37.94	12500	
51 V	45	1	0.01	0.01	ppb	90.02	12500	
53 Cr	45	1	0.02	0.02	ppb	184.19	12500	
55 Mn	45	1	0.30	0.30	ppb	3.17	12500	
57 Fe	45	1	1.82	1.82	ppb	34.11	65000	
59 Co	89	1	0.03	0.03	ppb	6.15	12500	
60 Ni	89	1	0.03	0.03	ppb	7.27	2500	
63 Cu	89	1	-0.06	-0.06	ppb	9.31	2500	
66 Zn	89	1	-0.03	-0.03	ppb	128.63	2500	
75 As	89	1	0.06	0.06	ppb	14.23	12500	
78 Se	89	1	-0.10	-0.10	ppb	192.89	10000	
90 Zr	89	1	-0.04	-0.04	ppb	40.26	550	
95 Mo	89	1	0.41	0.41	ppb	17.46	12500	
107 Ag	115	1	0.01	0.01	ppb	17.18	1000	
111 Cd	115	1	0.01	0.01	ppb	133.89	10000	
118 Sn	115	1	1.06	1.06	ppb	9.28	2500	
121 Sb	115	1	0.37	0.37	ppb	8.90	2500	
137 Ba	115	1	0.00	0.00	ppb	443.21	10000	
205 Tl	209	1	-0.02	-0.02	ppb	91.78	12500	
207 Pb	209	1	0.09	0.09	ppb	4.97	12500	
232 Th	209	1	0.82	0.82	ppb	5.12	550	
238 U	209	1	0.01	0.01	ppb	46.18	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	742307	1.29	803890	92.3	60 - 120	
89 Y	1	2592113	1.07	2738325	94.7	60 - 120	
115 In	1	2892354	0.40	2992760	96.6	60 - 120	
209 Bi	1	3960671	0.05	3793264	104.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\019SMPL.D\019SMPL.D#
Date Acquired: Dec 22 2009 04:11 pm
Acq. Method: STL5.M
Operator:
Sample Name: mb 220-34525/1-a
Misc Info:
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.07	0.07	ppb	102.47	550	
9 Be	45	1	0.05	0.05	ppb	51.10	10000	
11 B	45	1	-2.27	-2.27	ppb	88.49	550	
23 Na	45	1	18.69	18.69	ppb	41.92	300000	
24 Mg	45	1	1.81	1.81	ppb	55.96	125000	
27 Al	45	1	3.23	3.23	ppb	29.03	62500	
29 Si	45	1	20.97	20.97	ppb	19.78	12500	
34 S	45	1	383.20	383.20	ppb	29.18	21000	
39 K	45	1	5.87	5.87	ppb	61.51	125000	
44 Ca	45	1	9.66	9.66	ppb	39.95	125000	
47 Ti	45	1	0.12	0.12	ppb	32.86	12500	
51 V	45	1	0.11	0.11	ppb	17.25	12500	
53 Cr	45	1	0.23	0.23	ppb	3.23	12500	
55 Mn	45	1	-0.01	-0.01	ppb	388.52	12500	
57 Fe	45	1	2.30	2.30	ppb	37.59	65000	
59 Co	89	1	0.00	0.00	ppb	815.05	12500	
60 Ni	89	1	0.03	0.03	ppb	70.25	2500	
63 Cu	89	1	-0.05	-0.05	ppb	29.63	2500	
66 Zn	89	1	-0.13	-0.13	ppb	27.00	2500	
75 As	89	1	0.10	0.10	ppb	17.16	12500	
78 Se	89	1	-0.09	-0.09	ppb	184.80	10000	
90 Zr	89	1	0.74	0.74	ppb	8.32	550	
95 Mo	89	1	0.17	0.17	ppb	21.99	12500	
107 Ag	115	1	0.02	0.02	ppb	60.05	1000	
111 Cd	115	1	0.03	0.03	ppb	58.69	10000	
118 Sn	115	1	0.85	0.85	ppb	11.11	2500	
121 Sb	115	1	0.14	0.14	ppb	38.90	2500	
137 Ba	115	1	0.02	0.02	ppb	85.25	10000	
205 Tl	209	1	-0.14	-0.14	ppb	27.45	12500	
207 Pb	209	1	0.10	0.10	ppb	35.55	12500	
232 Th	209	1	0.19	0.19	ppb	10.44	550	
238 U	209	1	0.02	0.02	ppb	121.56	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	740358	1.18	803890	92.1	60 - 120	
89 Y	1	2579553	1.90	2738325	94.2	60 - 120	
115 In	1	2833360	1.81	2992760	94.7	60 - 120	
209 Bi	1	3968021	1.11	3793264	104.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\020SMPL.D\020SMPL.D#
Date Acquired: Dec 22 2009 04:14 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-9-c
Misc Info:
Vial Number: 2402
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	8.96	8.96	ppb	1.66	550	
9 Be	45	1	0.62	0.62	ppb	4.46	10000	
11 B	45	1	29.96	29.96	ppb	3.70	550	
23 Na	45	1	471.50	471.50	ppb	2.78	300000	
24 Mg	45	1	4,195.00	4195.00	ppb	1.40	125000	
27 Al	45	1	4,268.00	4268.00	ppb	2.06	62500	
29 Si	45	1	206.40	206.40	ppb	6.23	12500	
34 S	45	1	1,814.00	1814.00	ppb	3.13	21000	
39 K	45	1	625.40	625.40	ppb	2.63	125000	
44 Ca	45	1	19,880.00	19880.00	ppb	1.50	125000	
47 Ti	45	1	145.30	145.30	ppb	2.80	12500	
51 V	45	1	16.55	16.55	ppb	2.23	12500	
53 Cr	45	1	14.89	14.89	ppb	1.49	12500	
55 Mn	45	1	128.80	128.80	ppb	1.80	12500	
57 Fe	45	1	21,860.00	21860.00	ppb	2.05	65000	
59 Co	89	1	4.09	4.09	ppb	1.20	12500	
60 Ni	89	1	21.12	21.12	ppb	0.69	2500	
63 Cu	89	1	94.95	94.95	ppb	0.78	2500	
66 Zn	89	1	229.20	229.20	ppb	1.65	2500	
75 As	89	1	167.60	167.60	ppb	0.71	12500	
78 Se	89	1	4.68	4.68	ppb	11.31	10000	
90 Zr	89	1	3.64	3.64	ppb	0.85	550	
95 Mo	89	1	3.58	3.58	ppb	2.15	12500	
107 Ag	115	1	0.19	0.19	ppb	6.84	1000	
111 Cd	115	1	0.84	0.84	ppb	0.47	10000	
118 Sn	115	1	3.48	3.48	ppb	0.55	2500	
121 Sb	115	1	0.43	0.43	ppb	5.82	2500	
137 Ba	115	1	398.30	398.30	ppb	1.41	10000	
205 Tl	209	1	0.92	0.92	ppb	2.26	12500	
207 Pb	209	1	2,649.00	2649.00	ppb	1.72	12500	
232 Th	209	1	0.88	0.88	ppb	5.00	550	
238 U	209	1	0.46	0.46	ppb	1.45	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	786216	2.16	803890	97.8	60 - 120	
89 Y	1	2715197	1.24	2738325	99.2	60 - 120	
115 In	1	2933598	0.34	2992760	98.0	60 - 120	
209 Bi	1	3963212	1.83	3793264	104.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\021SMPL.D\021SMPL.D#
Date Acquired: Dec 22 2009 04:18 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-10-c
Misc Info:
Vial Number: 2403
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	17.55	17.55	ppb	2.06	550	
9 Be	45	1	0.43	0.43	ppb	16.48	10000	
11 B	45	1	6.00	6.00	ppb	28.40	550	
23 Na	45	1	1,981.00	1981.00	ppb	0.79	300000	
24 Mg	45	1	3,068.00	3068.00	ppb	0.62	125000	
27 Al	45	1	6,503.00	6503.00	ppb	1.38	62500	
29 Si	45	1	264.50	264.50	ppb	10.75	12500	
34 S	45	1	5,455.00	5455.00	ppb	1.70	21000	
39 K	45	1	1,197.00	1197.00	ppb	0.78	125000	
44 Ca	45	1	3,101.00	3101.00	ppb	0.61	125000	
47 Ti	45	1	152.50	152.50	ppb	0.97	12500	
51 V	45	1	19.07	19.07	ppb	0.57	12500	
53 Cr	45	1	12.90	12.90	ppb	1.78	12500	
55 Mn	45	1	253.30	253.30	ppb	0.39	12500	
57 Fe	45	1	14,200.00	14200.00	ppb	0.58	65000	
59 Co	89	1	5.86	5.86	ppb	0.97	12500	
60 Ni	89	1	12.88	12.88	ppb	0.13	2500	
63 Cu	89	1	17.69	17.69	ppb	0.90	2500	
66 Zn	89	1	67.30	67.30	ppb	0.73	2500	
75 As	89	1	4.83	4.83	ppb	1.78	12500	
78 Se	89	1	0.75	0.75	ppb	34.96	10000	
90 Zr	89	1	3.63	3.63	ppb	1.36	550	
95 Mo	89	1	0.97	0.97	ppb	5.07	12500	
107 Ag	115	1	0.05	0.05	ppb	22.53	1000	
111 Cd	115	1	0.15	0.15	ppb	11.43	10000	
118 Sn	115	1	1.92	1.92	ppb	2.74	2500	
121 Sb	115	1	0.23	0.23	ppb	22.56	2500	
137 Ba	115	1	30.58	30.58	ppb	0.81	10000	
205 Tl	209	1	-0.12	-0.12	ppb	13.06	12500	
207 Pb	209	1	57.15	57.15	ppb	1.28	12500	
232 Th	209	1	2.19	2.19	ppb	1.29	550	
238 U	209	1	0.51	0.51	ppb	2.49	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	802583	0.86	803890	99.8	60 - 120	
89 Y	1	2779711	1.29	2738325	101.5	60 - 120	
115 In	1	2943464	1.07	2992760	98.4	60 - 120	
209 Bi	1	3971009	0.37	3793264	104.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\022SMPL.D\022SMPL.D#
Date Acquired: Dec 22 2009 04:21 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-11-c
Misc Info:
Vial Number: 2404
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	22.56	22.56	ppb	2.92	550	
9 Be	45	1	0.55	0.55	ppb	11.69	10000	
11 B	45	1	4.29	4.29	ppb	13.20	550	
23 Na	45	1	2,648.00	2648.00	ppb	1.06	300000	
24 Mg	45	1	4,570.00	4570.00	ppb	1.13	125000	
27 Al	45	1	8,560.00	8560.00	ppb	1.15	62500	
29 Si	45	1	394.60	394.60	ppb	7.70	12500	
34 S	45	1	6,769.00	6769.00	ppb	2.34	21000	
39 K	45	1	1,640.00	1640.00	ppb	1.58	125000	
44 Ca	45	1	5,088.00	5088.00	ppb	1.04	125000	
47 Ti	45	1	257.10	257.10	ppb	1.01	12500	
51 V	45	1	28.03	28.03	ppb	0.55	12500	
53 Cr	45	1	19.16	19.16	ppb	0.22	12500	
55 Mn	45	1	325.20	325.20	ppb	1.02	12500	
57 Fe	45	1	21,200.00	21200.00	ppb	0.99	65000	
59 Co	89	1	8.24	8.24	ppb	0.50	12500	
60 Ni	89	1	19.13	19.13	ppb	1.59	2500	
63 Cu	89	1	26.08	26.08	ppb	1.48	2500	
66 Zn	89	1	109.50	109.50	ppb	0.68	2500	
75 As	89	1	5.54	5.54	ppb	2.27	12500	
78 Se	89	1	1.48	1.48	ppb	5.01	10000	
90 Zr	89	1	4.08	4.08	ppb	1.11	550	
95 Mo	89	1	0.87	0.87	ppb	2.65	12500	
107 Ag	115	1	0.05	0.05	ppb	51.49	1000	
111 Cd	115	1	0.26	0.26	ppb	10.38	10000	
118 Sn	115	1	1.74	1.74	ppb	2.85	2500	
121 Sb	115	1	0.07	0.07	ppb	44.05	2500	
137 Ba	115	1	50.23	50.23	ppb	0.72	10000	
205 Tl	209	1	-0.11	-0.11	ppb	6.49	12500	
207 Pb	209	1	36.54	36.54	ppb	0.90	12500	
232 Th	209	1	4.15	4.15	ppb	1.84	550	
238 U	209	1	0.64	0.64	ppb	2.47	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	809903	0.68	803890	100.7	60 - 120	
89 Y	1	2813043	1.09	2738325	102.7	60 - 120	
115 In	1	2902690	0.22	2992760	97.0	60 - 120	
209 Bi	1	3949840	0.44	3793264	104.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\023SMPL.D\023SMPL.D#
Date Acquired: Dec 22 2009 04:25 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-12-e
Misc Info:
Vial Number: 2405
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	23.20	23.20	ppb	3.47	550	
9 Be	45	1	0.35	0.35	ppb	12.38	10000	
11 B	45	1	4.64	4.64	ppb	24.27	550	
23 Na	45	1	911.10	911.10	ppb	0.76	300000	
24 Mg	45	1	4,146.00	4146.00	ppb	0.39	125000	
27 Al	45	1	8,444.00	8444.00	ppb	0.86	62500	
29 Si	45	1	391.40	391.40	ppb	1.57	12500	
34 S	45	1	6,795.00	6795.00	ppb	1.39	21000	
39 K	45	1	1,579.00	1579.00	ppb	1.24	125000	
44 Ca	45	1	4,258.00	4258.00	ppb	0.85	125000	
47 Ti	45	1	165.20	165.20	ppb	1.08	12500	
51 V	45	1	21.64	21.64	ppb	0.30	12500	
53 Cr	45	1	14.75	14.75	ppb	1.21	12500	
55 Mn	45	1	230.80	230.80	ppb	0.82	12500	
57 Fe	45	1	16,680.00	16680.00	ppb	0.41	65000	
59 Co	89	1	6.48	6.48	ppb	0.62	12500	
60 Ni	89	1	14.92	14.92	ppb	0.88	2500	
63 Cu	89	1	11.86	11.86	ppb	0.54	2500	
66 Zn	89	1	53.99	53.99	ppb	0.97	2500	
75 As	89	1	5.63	5.63	ppb	4.98	12500	
78 Se	89	1	1.02	1.02	ppb	17.66	10000	
90 Zr	89	1	4.06	4.06	ppb	1.84	550	
95 Mo	89	1	0.83	0.83	ppb	9.34	12500	
107 Ag	115	1	0.03	0.03	ppb	28.92	1000	
111 Cd	115	1	0.10	0.10	ppb	20.92	10000	
118 Sn	115	1	0.37	0.37	ppb	7.62	2500	
121 Sb	115	1	-0.05	-0.05	ppb	7.54	2500	
137 Ba	115	1	20.56	20.56	ppb	1.91	10000	
205 Tl	209	1	-0.17	-0.17	ppb	5.14	12500	
207 Pb	209	1	14.65	14.65	ppb	2.00	12500	
232 Th	209	1	2.82	2.82	ppb	0.61	550	
238 U	209	1	0.72	0.72	ppb	3.36	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	800894	0.63	803890	99.6	60 - 120	
89 Y	1	2806742	0.49	2738325	102.5	60 - 120	
115 In	1	2949419	0.63	2992760	98.6	60 - 120	
209 Bi	1	3976816	1.75	3793264	104.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\024SMPL.D\024SMPL.D#
Date Acquired: Dec 22 2009 04:29 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-13-c
Misc Info:
Vial Number: 2406
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	37.47	37.47	ppb	1.05	550	
9 Be	45	1	0.69	0.69	ppb	5.62	10000	
11 B	45	1	14.37	14.37	ppb	8.89	550	
23 Na	45	1	1,830.00	1830.00	ppb	1.15	300000	
24 Mg	45	1	4,560.00	4560.00	ppb	0.79	125000	
27 Al	45	1	14,440.00	14440.00	ppb	0.09	62500	
29 Si	45	1	755.70	755.70	ppb	5.94	12500	
34 S	45	1	2,313.00	2313.00	ppb	2.59	21000	
39 K	45	1	1,974.00	1974.00	ppb	1.59	125000	
44 Ca	45	1	34,590.00	34590.00	ppb	0.88	125000	
47 Ti	45	1	332.30	332.30	ppb	1.10	12500	
51 V	45	1	32.72	32.72	ppb	1.21	12500	
53 Cr	45	1	18.61	18.61	ppb	1.17	12500	
55 Mn	45	1	217.60	217.60	ppb	0.85	12500	
57 Fe	45	1	18,710.00	18710.00	ppb	0.85	65000	
59 Co	89	1	4.55	4.55	ppb	0.53	12500	
60 Ni	89	1	19.84	19.84	ppb	1.36	2500	
63 Cu	89	1	107.90	107.90	ppb	1.33	2500	
66 Zn	89	1	231.60	231.60	ppb	0.55	2500	
75 As	89	1	106.30	106.30	ppb	0.80	12500	
78 Se	89	1	2.91	2.91	ppb	11.69	10000	
90 Zr	89	1	7.45	7.45	ppb	1.79	550	
95 Mo	89	1	2.31	2.31	ppb	1.52	12500	
107 Ag	115	1	0.09	0.09	ppb	5.19	1000	
111 Cd	115	1	0.69	0.69	ppb	2.55	10000	
118 Sn	115	1	3.57	3.57	ppb	1.97	2500	
121 Sb	115	1	0.22	0.22	ppb	24.28	2500	
137 Ba	115	1	149.10	149.10	ppb	0.15	10000	
205 Tl	209	1	0.77	0.77	ppb	3.32	12500	
207 Pb	209	1	206.00	206.00	ppb	1.13	12500	
232 Th	209	1	2.12	2.12	ppb	0.71	550	
238 U	209	1	0.55	0.55	ppb	4.24	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	810144	1.09	803890	100.8	60 - 120	
89 Y	1	2810682	0.24	2738325	102.6	60 - 120	
115 In	1	2944659	0.99	2992760	98.4	60 - 120	
209 Bi	1	3891372	0.77	3793264	102.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\025SMPL.D\025SMPL.D#
Date Acquired: Dec 22 2009 04:33 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-1-m
Misc Info:
Vial Number: 2407
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	17.63	17.63	ppb	4.43	550	
9 Be	45	1	0.80	0.80	ppb	24.20	10000	
11 B	45	1	-0.95	-0.95	ppb	23.88	550	
23 Na	45	1	183.40	183.40	ppb	1.36	300000	
24 Mg	45	1	5,107.00	5107.00	ppb	1.36	125000	
27 Al	45	1	17,390.00	17390.00	ppb	1.45	62500	
29 Si	45	1	691.70	691.70	ppb	11.19	12500	
34 S	45	1	286.40	286.40	ppb	22.72	21000	
39 K	45	1	1,544.00	1544.00	ppb	1.18	125000	
44 Ca	45	1	6,552.00	6552.00	ppb	0.56	125000	
47 Ti	45	1	468.40	468.40	ppb	1.55	12500	
51 V	45	1	38.93	38.93	ppb	1.44	12500	
53 Cr	45	1	26.64	26.64	ppb	2.44	12500	
55 Mn	45	1	881.70	881.70	ppb	1.71	12500	
57 Fe	45	1	24,000.00	24000.00	ppb	1.64	65000	
59 Co	89	1	14.96	14.96	ppb	0.66	12500	
60 Ni	89	1	40.57	40.57	ppb	0.44	2500	
63 Cu	89	1	28.36	28.36	ppb	0.61	2500	
66 Zn	89	1	81.94	81.94	ppb	0.70	2500	
75 As	89	1	5.80	5.80	ppb	4.83	12500	
78 Se	89	1	1.66	1.66	ppb	5.16	10000	
90 Zr	89	1	6.07	6.07	ppb	0.94	550	
95 Mo	89	1	0.70	0.70	ppb	4.43	12500	
107 Ag	115	1	0.04	0.04	ppb	6.43	1000	
111 Cd	115	1	0.10	0.10	ppb	19.33	10000	
118 Sn	115	1	1.06	1.06	ppb	3.40	2500	
121 Sb	115	1	-0.01	-0.01	ppb	252.80	2500	
137 Ba	115	1	72.71	72.71	ppb	0.79	10000	
205 Tl	209	1	-0.12	-0.12	ppb	3.55	12500	
207 Pb	209	1	42.04	42.04	ppb	1.30	12500	
232 Th	209	1	6.43	6.43	ppb	0.23	550	
238 U	209	1	1.45	1.45	ppb	2.28	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	841736	0.87	803890	104.7	60 - 120	
89 Y	1	2933400	0.62	2738325	107.1	60 - 120	
115 In	1	2928271	0.31	2992760	97.8	60 - 120	
209 Bi	1	3889205	0.81	3793264	102.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\026SMPL.D\026SMPL.D#
Date Acquired: Dec 22 2009 04:36 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-6-h
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.93	13.93	ppb	4.10	550	
9 Be	45	1	0.51	0.51	ppb	4.64	10000	
11 B	45	1	-2.30	-2.30	ppb	8.22	550	
23 Na	45	1	164.80	164.80	ppb	1.74	300000	
24 Mg	45	1	2,962.00	2962.00	ppb	1.34	125000	
27 Al	45	1	13,620.00	13620.00	ppb	2.08	62500	
29 Si	45	1	327.60	327.60	ppb	5.38	12500	
34 S	45	1	102.10	102.10	ppb	48.42	21000	
39 K	45	1	934.70	934.70	ppb	0.82	125000	
44 Ca	45	1	1,409.00	1409.00	ppb	2.94	125000	
47 Ti	45	1	293.50	293.50	ppb	2.26	12500	
51 V	45	1	29.29	29.29	ppb	1.67	12500	
53 Cr	45	1	18.91	18.91	ppb	2.39	12500	
55 Mn	45	1	308.00	308.00	ppb	0.97	12500	
57 Fe	45	1	17,860.00	17860.00	ppb	1.44	65000	
59 Co	89	1	7.91	7.91	ppb	0.90	12500	
60 Ni	89	1	21.33	21.33	ppb	1.43	2500	
63 Cu	89	1	17.69	17.69	ppb	0.91	2500	
66 Zn	89	1	38.48	38.48	ppb	0.57	2500	
75 As	89	1	5.27	5.27	ppb	0.86	12500	
78 Se	89	1	1.12	1.12	ppb	18.49	10000	
90 Zr	89	1	4.82	4.82	ppb	2.02	550	
95 Mo	89	1	0.62	0.62	ppb	2.70	12500	
107 Ag	115	1	0.03	0.03	ppb	20.24	1000	
111 Cd	115	1	0.05	0.05	ppb	49.89	10000	
118 Sn	115	1	0.53	0.53	ppb	3.91	2500	
121 Sb	115	1	-0.04	-0.04	ppb	10.32	2500	
137 Ba	115	1	50.10	50.10	ppb	0.87	10000	
205 Tl	209	1	-0.16	-0.16	ppb	6.18	12500	
207 Pb	209	1	27.23	27.23	ppb	1.59	12500	
232 Th	209	1	4.64	4.64	ppb	0.44	550	
238 U	209	1	1.30	1.30	ppb	2.13	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	829705	1.33	803890	103.2	60 - 120	
89 Y	1	2854118	0.39	2738325	104.2	60 - 120	
115 In	1	2948136	0.31	2992760	98.5	60 - 120	
209 Bi	1	3907338	0.87	3793264	103.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\027SMPL.D\027SMPL.D#
Date Acquired: Dec 22 2009 04:40 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-11-h
Misc Info:
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	14.97	14.97	ppb	3.61	550	
9 Be	45	1	0.66	0.66	ppb	27.91	10000	
11 B	45	1	-2.97	-2.97	ppb	12.02	550	
23 Na	45	1	188.00	188.00	ppb	2.72	300000	
24 Mg	45	1	4,576.00	4576.00	ppb	0.80	125000	
27 Al	45	1	15,190.00	15190.00	ppb	0.80	62500	
29 Si	45	1	351.90	351.90	ppb	10.31	12500	
34 S	45	1	82.42	82.42	ppb	39.38	21000	
39 K	45	1	1,834.00	1834.00	ppb	0.03	125000	
44 Ca	45	1	1,628.00	1628.00	ppb	1.07	125000	
47 Ti	45	1	636.60	636.60	ppb	0.71	12500	
51 V	45	1	42.67	42.67	ppb	0.81	12500	
53 Cr	45	1	29.79	29.79	ppb	0.69	12500	
55 Mn	45	1	910.90	910.90	ppb	0.76	12500	
57 Fe	45	1	22,490.00	22490.00	ppb	0.21	65000	
59 Co	89	1	14.19	14.19	ppb	0.39	12500	
60 Ni	89	1	38.59	38.59	ppb	0.41	2500	
63 Cu	89	1	27.40	27.40	ppb	0.60	2500	
66 Zn	89	1	64.53	64.53	ppb	1.16	2500	
75 As	89	1	3.42	3.42	ppb	0.94	12500	
78 Se	89	1	1.75	1.75	ppb	14.18	10000	
90 Zr	89	1	4.25	4.25	ppb	1.52	550	
95 Mo	89	1	0.61	0.61	ppb	3.31	12500	
107 Ag	115	1	0.02	0.02	ppb	51.17	1000	
111 Cd	115	1	0.12	0.12	ppb	20.55	10000	
118 Sn	115	1	0.42	0.42	ppb	6.71	2500	
121 Sb	115	1	-0.04	-0.04	ppb	61.58	2500	
137 Ba	115	1	71.10	71.10	ppb	0.85	10000	
205 Tl	209	1	-0.09	-0.09	ppb	28.74	12500	
207 Pb	209	1	14.10	14.10	ppb	3.38	12500	
232 Th	209	1	5.65	5.65	ppb	0.60	550	
238 U	209	1	1.26	1.26	ppb	1.25	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	842685	0.93	803890	104.8	60 - 120	
89 Y	1	2970727	0.28	2738325	108.5	60 - 120	
115 In	1	2969590	0.59	2992760	99.2	60 - 120	
209 Bi	1	3920929	1.33	3793264	103.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\028SMPL.D\028SMPL.D#
Date Acquired: Dec 22 2009 04:43 pm
Acq. Method: STL5.M
Operator:
Sample Name: lcs 220-34525/2-a
Misc Info:
Vial Number: 2410
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.13	0.13	ppb	5.72	550	
9 Be	45	1	24.05	24.05	ppb	1.49	10000	
11 B	45	1	230.10	230.10	ppb	0.92	550	
23 Na	45	1	7,222.00	7222.00	ppb	0.76	300000	
24 Mg	45	1	3,540.00	3540.00	ppb	0.84	125000	
27 Al	45	1	1,489.00	1489.00	ppb	0.36	62500	
29 Si	45	1	224.90	224.90	ppb	3.26	12500	
34 S	45	1	202.30	202.30	ppb	12.25	21000	
39 K	45	1	5,081.00	5081.00	ppb	0.22	125000	
44 Ca	45	1	6,956.00	6956.00	ppb	0.84	125000	
47 Ti	45	1	245.60	245.60	ppb	0.32	12500	
51 V	45	1	76.66	76.66	ppb	0.19	12500	
53 Cr	45	1	71.77	71.77	ppb	0.16	12500	
55 Mn	45	1	50.85	50.85	ppb	0.72	12500	
57 Fe	45	1	5,653.00	5653.00	ppb	1.22	65000	
59 Co	89	1	78.05	78.05	ppb	1.96	12500	
60 Ni	89	1	75.33	75.33	ppb	1.53	2500	
63 Cu	89	1	76.14	76.14	ppb	1.19	2500	
66 Zn	89	1	75.39	75.39	ppb	0.96	2500	
75 As	89	1	252.60	252.60	ppb	1.48	12500	
78 Se	89	1	125.30	125.30	ppb	1.71	10000	
90 Zr	89	1	250.10	250.10	ppb	0.54	550	
95 Mo	89	1	240.40	240.40	ppb	1.28	12500	
107 Ag	115	1	76.13	76.13	ppb	0.95	1000	
111 Cd	115	1	73.31	73.31	ppb	1.01	10000	
118 Sn	115	1	237.10	237.10	ppb	0.52	2500	
121 Sb	115	1	251.10	251.10	ppb	0.25	2500	
137 Ba	115	1	71.23	71.23	ppb	0.66	10000	
205 Tl	209	1	227.20	227.20	ppb	0.78	12500	
207 Pb	209	1	250.10	250.10	ppb	0.67	12500	
232 Th	209	1	0.50	0.50	ppb	15.14	550	
238 U	209	1	-0.01	-0.01	ppb	47.47	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	826472	0.28	803890	102.8	60 - 120	
89 Y	1	2753329	1.11	2738325	100.5	60 - 120	
115 In	1	2996008	0.45	2992760	100.1	60 - 120	
209 Bi	1	3876528	0.26	3793264	102.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\029SMPL.D\029SMPL.D#
Date Acquired: Dec 22 2009 04:47 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2411
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	78.97	78.97	ppb	1.95	550	
9 Be	45	1	117.60	117.60	ppb	2.36	10000	
11 B	45	1	189.90	189.90	ppb	2.20	550	
23 Na	45	1	2,046.00	2046.00	ppb	0.45	300000	
24 Mg	45	1	2,594.00	2594.00	ppb	1.11	125000	
27 Al	45	1	3,682.00	3682.00	ppb	1.10	62500	
29 Si	45	1	177.90	177.90	ppb	7.42	12500	
34 S	45	1	10,730.00	10730.00	ppb	1.81	21000	
39 K	45	1	4,173.00	4173.00	ppb	0.64	125000	
44 Ca	45	1	2,550.00	2550.00	ppb	0.12	125000	
47 Ti	45	1	201.60	201.60	ppb	1.47	12500	
51 V	45	1	62.02	62.02	ppb	0.47	12500	
53 Cr	45	1	58.69	58.69	ppb	0.70	12500	
55 Mn	45	1	42.26	42.26	ppb	0.65	12500	
57 Fe	45	1	1,000.00	1000.00	ppb	0.50	65000	
59 Co	89	1	62.49	62.49	ppb	0.68	12500	
60 Ni	89	1	59.99	59.99	ppb	1.28	2500	
63 Cu	89	1	61.27	61.27	ppb	1.10	2500	
66 Zn	89	1	60.47	60.47	ppb	1.21	2500	
75 As	89	1	200.50	200.50	ppb	0.37	12500	
78 Se	89	1	99.40	99.40	ppb	1.45	10000	
90 Zr	89	1	167.70	167.70	ppb	0.58	550	
95 Mo	89	1	197.00	197.00	ppb	1.61	12500	
107 Ag	115	1	62.42	62.42	ppb	0.48	1000	
111 Cd	115	1	59.39	59.39	ppb	0.60	10000	
118 Sn	115	1	198.40	198.40	ppb	1.50	2500	
121 Sb	115	1	203.70	203.70	ppb	1.15	2500	
137 Ba	115	1	58.07	58.07	ppb	0.35	10000	
205 Tl	209	1	193.00	193.00	ppb	1.26	12500	
207 Pb	209	1	205.30	205.30	ppb	1.06	12500	
232 Th	209	1	73.14	73.14	ppb	0.02	550	
238 U	209	1	75.52	75.52	ppb	1.12	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	778090	0.74	803890	96.8	60 - 120	
89 Y	1	2671620	0.91	2738325	97.6	60 - 120	
115 In	1	2932897	1.00	2992760	98.0	60 - 120	
209 Bi	1	3759920	1.13	3793264	99.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\030SMPL.D\030SMPL.D#
Date Acquired: Dec 22 2009 04:53 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2412
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	-0.01	-0.01	ppb	352.04	550	
9 Be	45	1	-0.01	-0.01	ppb	75.56	10000	
11 B	45	1	1.69	1.69	ppb	109.84	550	
23 Na	45	1	3.29	3.29	ppb	8.10	300000	
24 Mg	45	1	1.37	1.37	ppb	22.22	125000	
27 Al	45	1	2.77	2.77	ppb	13.77	62500	
29 Si	45	1	10.16	10.16	ppb	17.89	12500	
34 S	45	1	292.00	292.00	ppb	15.39	21000	
39 K	45	1	3.37	3.37	ppb	19.45	125000	
44 Ca	45	1	3.38	3.38	ppb	50.42	125000	
47 Ti	45	1	0.15	0.15	ppb	61.90	12500	
51 V	45	1	0.02	0.02	ppb	15.81	12500	
53 Cr	45	1	0.02	0.02	ppb	77.50	12500	
55 Mn	45	1	0.23	0.23	ppb	16.38	12500	
57 Fe	45	1	4.71	4.71	ppb	14.10	65000	
59 Co	89	1	0.02	0.02	ppb	24.72	12500	
60 Ni	89	1	0.03	0.03	ppb	25.47	2500	
63 Cu	89	1	-0.06	-0.06	ppb	27.36	2500	
66 Zn	89	1	0.06	0.06	ppb	68.42	2500	
75 As	89	1	0.06	0.06	ppb	39.11	12500	
78 Se	89	1	-0.07	-0.07	ppb	174.92	10000	
90 Zr	89	1	-0.05	-0.05	ppb	14.55	550	
95 Mo	89	1	0.58	0.58	ppb	15.81	12500	
107 Ag	115	1	0.01	0.01	ppb	43.31	1000	
111 Cd	115	1	0.01	0.01	ppb	65.82	10000	
118 Sn	115	1	1.43	1.43	ppb	14.45	2500	
121 Sb	115	1	0.50	0.50	ppb	3.48	2500	
137 Ba	115	1	0.02	0.02	ppb	53.67	10000	
205 Tl	209	1	0.05	0.05	ppb	45.92	12500	
207 Pb	209	1	0.15	0.15	ppb	14.25	12500	
232 Th	209	1	0.34	0.34	ppb	1.90	550	
238 U	209	1	0.00	0.00	ppb	80.54	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	746641	2.14	803890	92.9	60 - 120	
89 Y	1	2596782	1.65	2738325	94.8	60 - 120	
115 In	1	2903355	1.63	2992760	97.0	60 - 120	
209 Bi	1	3862923	0.24	3793264	101.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\031SMPL.D\031SMPL.D#
Date Acquired: Dec 22 2009 04:57 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-16-h
Misc Info:
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.26	12.26	ppb	3.50	550	
9 Be	45	1	0.47	0.47	ppb	14.87	10000	
11 B	45	1	1.59	1.59	ppb	104.15	550	
23 Na	45	1	1,057.00	1057.00	ppb	1.60	300000	
24 Mg	45	1	6,398.00	6398.00	ppb	1.69	125000	
27 Al	45	1	9,816.00	9816.00	ppb	0.76	62500	
29 Si	45	1	472.20	472.20	ppb	5.06	12500	
34 S	45	1	171.60	171.60	ppb	54.22	21000	
39 K	45	1	2,454.00	2454.00	ppb	1.90	125000	
44 Ca	45	1	4,333.00	4333.00	ppb	2.48	125000	
47 Ti	45	1	573.50	573.50	ppb	1.97	12500	
51 V	45	1	31.79	31.79	ppb	2.21	12500	
53 Cr	45	1	41.83	41.83	ppb	1.95	12500	
55 Mn	45	1	440.80	440.80	ppb	1.96	12500	
57 Fe	45	1	16,220.00	16220.00	ppb	1.54	65000	
59 Co	89	1	11.05	11.05	ppb	0.76	12500	
60 Ni	89	1	63.59	63.59	ppb	0.79	2500	
63 Cu	89	1	27.13	27.13	ppb	0.92	2500	
66 Zn	89	1	42.82	42.82	ppb	0.72	2500	
75 As	89	1	2.55	2.55	ppb	1.05	12500	
78 Se	89	1	1.49	1.49	ppb	20.22	10000	
90 Zr	89	1	2.95	2.95	ppb	1.40	550	
95 Mo	89	1	2.46	2.46	ppb	2.99	12500	
107 Ag	115	1	0.02	0.02	ppb	19.02	1000	
111 Cd	115	1	0.11	0.11	ppb	20.34	10000	
118 Sn	115	1	1.31	1.31	ppb	4.73	2500	
121 Sb	115	1	0.14	0.14	ppb	8.18	2500	
137 Ba	115	1	54.08	54.08	ppb	1.42	10000	
205 Tl	209	1	-0.03	-0.03	ppb	64.96	12500	
207 Pb	209	1	8.86	8.86	ppb	2.10	12500	
232 Th	209	1	7.16	7.16	ppb	4.49	550	
238 U	209	1	1.29	1.29	ppb	1.40	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	803634	1.96	803890	100.0	60 - 120	
89 Y	1	2843889	0.41	2738325	103.9	60 - 120	
115 In	1	2912121	0.26	2992760	97.3	60 - 120	
209 Bi	1	3862375	0.56	3793264	101.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\032SMPL.D\032SMPL.D#
Date Acquired: Dec 22 2009 05:00 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-21-d
Misc Info:
Vial Number: 2502
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	15.47	15.47	ppb	3.27	550	
9 Be	45	1	0.70	0.70	ppb	2.14	10000	
11 B	45	1	-1.95	-1.95	ppb	35.08	550	
23 Na	45	1	193.40	193.40	ppb	2.52	300000	
24 Mg	45	1	4,158.00	4158.00	ppb	0.18	125000	
27 Al	45	1	14,290.00	14290.00	ppb	1.48	62500	
29 Si	45	1	808.30	808.30	ppb	2.00	12500	
34 S	45	1	132.10	132.10	ppb	15.62	21000	
39 K	45	1	1,491.00	1491.00	ppb	1.90	125000	
44 Ca	45	1	6,750.00	6750.00	ppb	1.32	125000	
47 Ti	45	1	443.70	443.70	ppb	0.98	12500	
51 V	45	1	33.60	33.60	ppb	1.02	12500	
53 Cr	45	1	25.35	25.35	ppb	1.33	12500	
55 Mn	45	1	430.70	430.70	ppb	0.94	12500	
57 Fe	45	1	21,190.00	21190.00	ppb	0.50	65000	
59 Co	89	1	9.75	9.75	ppb	0.29	12500	
60 Ni	89	1	35.44	35.44	ppb	0.50	2500	
63 Cu	89	1	25.25	25.25	ppb	0.80	2500	
66 Zn	89	1	65.61	65.61	ppb	0.26	2500	
75 As	89	1	4.48	4.48	ppb	2.05	12500	
78 Se	89	1	1.42	1.42	ppb	3.25	10000	
90 Zr	89	1	5.34	5.34	ppb	1.76	550	
95 Mo	89	1	0.49	0.49	ppb	5.22	12500	
107 Ag	115	1	0.03	0.03	ppb	34.25	1000	
111 Cd	115	1	0.09	0.09	ppb	10.08	10000	
118 Sn	115	1	0.96	0.96	ppb	2.81	2500	
121 Sb	115	1	0.07	0.07	ppb	21.22	2500	
137 Ba	115	1	57.76	57.76	ppb	1.13	10000	
205 Tl	209	1	-0.10	-0.10	ppb	7.00	12500	
207 Pb	209	1	18.74	18.74	ppb	0.31	12500	
232 Th	209	1	4.92	4.92	ppb	1.36	550	
238 U	209	1	1.17	1.17	ppb	1.09	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	814019	1.26	803890	101.3	60 - 120	
89 Y	1	2838464	0.23	2738325	103.7	60 - 120	
115 In	1	2891044	0.27	2992760	96.6	60 - 120	
209 Bi	1	3856569	0.46	3793264	101.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\033SMPL.D\033SMPL.D#
Date Acquired: Dec 22 2009 05:03 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-26-d
Misc Info:
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	15.24	15.24	ppb	3.97	550	
9 Be	45	1	0.61	0.61	ppb	7.26	10000	
11 B	45	1	-1.71	-1.71	ppb	40.35	550	
23 Na	45	1	119.10	119.10	ppb	0.29	300000	
24 Mg	45	1	3,774.00	3774.00	ppb	0.97	125000	
27 Al	45	1	15,030.00	15030.00	ppb	0.37	62500	
29 Si	45	1	525.40	525.40	ppb	3.67	12500	
34 S	45	1	172.60	172.60	ppb	9.51	21000	
39 K	45	1	1,305.00	1305.00	ppb	0.77	125000	
44 Ca	45	1	5,728.00	5728.00	ppb	1.08	125000	
47 Ti	45	1	348.00	348.00	ppb	1.42	12500	
51 V	45	1	33.37	33.37	ppb	0.85	12500	
53 Cr	45	1	22.20	22.20	ppb	0.63	12500	
55 Mn	45	1	453.10	453.10	ppb	0.44	12500	
57 Fe	45	1	21,850.00	21850.00	ppb	0.87	65000	
59 Co	89	1	10.11	10.11	ppb	1.84	12500	
60 Ni	89	1	31.16	31.16	ppb	1.15	2500	
63 Cu	89	1	23.20	23.20	ppb	1.55	2500	
66 Zn	89	1	57.23	57.23	ppb	1.04	2500	
75 As	89	1	5.06	5.06	ppb	2.24	12500	
78 Se	89	1	1.83	1.83	ppb	16.82	10000	
90 Zr	89	1	5.72	5.72	ppb	0.28	550	
95 Mo	89	1	0.51	0.51	ppb	3.87	12500	
107 Ag	115	1	0.03	0.03	ppb	15.60	1000	
111 Cd	115	1	0.07	0.07	ppb	7.31	10000	
118 Sn	115	1	0.87	0.87	ppb	3.87	2500	
121 Sb	115	1	0.09	0.09	ppb	24.31	2500	
137 Ba	115	1	58.69	58.69	ppb	0.93	10000	
205 Tl	209	1	-0.11	-0.11	ppb	5.06	12500	
207 Pb	209	1	24.70	24.70	ppb	1.22	12500	
232 Th	209	1	5.28	5.28	ppb	0.93	550	
238 U	209	1	0.97	0.97	ppb	0.36	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	822235	0.76	803890	102.3	60 - 120	
89 Y	1	2858600	1.19	2738325	104.4	60 - 120	
115 In	1	2917499	0.40	2992760	97.5	60 - 120	
209 Bi	1	3846625	0.93	3793264	101.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\034SMPL.D\034SMPL.D#
Date Acquired: Dec 22 2009 05:07 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-31-d
Misc Info:
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	18.16	18.16	ppb	4.46	550	
9 Be	45	1	0.70	0.70	ppb	23.08	10000	
11 B	45	1	150.10	150.10	ppb	0.18	550	
23 Na	45	1	1,470.00	1470.00	ppb	0.60	300000	
24 Mg	45	1	8,928.00	8928.00	ppb	0.02	125000	
27 Al	45	1	12,290.00	12290.00	ppb	0.52	62500	
29 Si	45	1	815.70	815.70	ppb	2.47	12500	
34 S	45	1	160.50	160.50	ppb	17.89	21000	
39 K	45	1	3,187.00	3187.00	ppb	0.98	125000	
44 Ca	45	1	6,944.00	6944.00	ppb	0.95	125000	
47 Ti	45	1	728.60	728.60	ppb	0.22	12500	
51 V	45	1	77.23	77.23	ppb	1.11	12500	
53 Cr	45	1	32.75	32.75	ppb	1.00	12500	
55 Mn	45	1	493.90	493.90	ppb	0.23	12500	
57 Fe	45	1	19,900.00	19900.00	ppb	0.51	65000	
59 Co	89	1	11.69	11.69	ppb	0.15	12500	
60 Ni	89	1	54.08	54.08	ppb	0.23	2500	
63 Cu	89	1	45.91	45.91	ppb	0.70	2500	
66 Zn	89	1	61.06	61.06	ppb	1.02	2500	
75 As	89	1	2.59	2.59	ppb	1.13	12500	
78 Se	89	1	1.36	1.36	ppb	14.12	10000	
90 Zr	89	1	3.83	3.83	ppb	0.85	550	
95 Mo	89	1	2.21	2.21	ppb	0.64	12500	
107 Ag	115	1	0.04	0.04	ppb	20.18	1000	
111 Cd	115	1	0.23	0.23	ppb	23.90	10000	
118 Sn	115	1	0.76	0.76	ppb	7.88	2500	
121 Sb	115	1	0.01	0.01	ppb	232.71	2500	
137 Ba	115	1	67.87	67.87	ppb	0.99	10000	
205 Tl	209	1	-0.07	-0.07	ppb	22.61	12500	
207 Pb	209	1	10.96	10.96	ppb	2.54	12500	
232 Th	209	1	7.54	7.54	ppb	0.67	550	
238 U	209	1	1.66	1.66	ppb	0.91	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	821634	0.31	803890	102.2	60 - 120	
89 Y	1	2909147	0.65	2738325	106.2	60 - 120	
115 In	1	2915165	0.59	2992760	97.4	60 - 120	
209 Bi	1	3769293	0.57	3793264	99.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\035SMPL.D\035SMPL.D#
Date Acquired: Dec 22 2009 05:10 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-36-d
Misc Info:
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	17.52	17.52	ppb	3.16	550	
9 Be	45	1	0.53	0.53	ppb	17.00	10000	
11 B	45	1	0.06	0.06	ppb	2557.60	550	
23 Na	45	1	138.60	138.60	ppb	2.04	300000	
24 Mg	45	1	3,786.00	3786.00	ppb	0.68	125000	
27 Al	45	1	16,670.00	16670.00	ppb	0.28	62500	
29 Si	45	1	607.50	607.50	ppb	7.99	12500	
34 S	45	1	165.00	165.00	ppb	61.76	21000	
39 K	45	1	1,217.00	1217.00	ppb	0.38	125000	
44 Ca	45	1	1,324.00	1324.00	ppb	1.61	125000	
47 Ti	45	1	399.00	399.00	ppb	0.19	12500	
51 V	45	1	39.25	39.25	ppb	0.33	12500	
53 Cr	45	1	27.69	27.69	ppb	0.39	12500	
55 Mn	45	1	264.70	264.70	ppb	0.47	12500	
57 Fe	45	1	20,750.00	20750.00	ppb	0.22	65000	
59 Co	89	1	8.72	8.72	ppb	0.79	12500	
60 Ni	89	1	23.26	23.26	ppb	0.78	2500	
63 Cu	89	1	20.51	20.51	ppb	0.59	2500	
66 Zn	89	1	53.34	53.34	ppb	0.03	2500	
75 As	89	1	6.22	6.22	ppb	5.22	12500	
78 Se	89	1	1.18	1.18	ppb	10.76	10000	
90 Zr	89	1	6.37	6.37	ppb	0.70	550	
95 Mo	89	1	0.99	0.99	ppb	2.05	12500	
107 Ag	115	1	0.05	0.05	ppb	23.51	1000	
111 Cd	115	1	0.07	0.07	ppb	11.88	10000	
118 Sn	115	1	0.68	0.68	ppb	4.16	2500	
121 Sb	115	1	0.00	0.00	ppb	526.08	2500	
137 Ba	115	1	45.13	45.13	ppb	1.22	10000	
205 Tl	209	1	-0.11	-0.11	ppb	10.80	12500	
207 Pb	209	1	32.16	32.16	ppb	0.56	12500	
232 Th	209	1	6.02	6.02	ppb	1.77	550	
238 U	209	1	1.77	1.77	ppb	1.94	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	835826	0.37	803890	104.0	60 - 120	
89 Y	1	2845699	0.26	2738325	103.9	60 - 120	
115 In	1	2951292	0.61	2992760	98.6	60 - 120	
209 Bi	1	3887794	0.67	3793264	102.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\036SMPL.D\036SMPL.D#
Date Acquired: Dec 22 2009 05:14 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-41-d
Misc Info:
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.88	10.88	ppb	4.84	550	
9 Be	45	1	0.51	0.51	ppb	13.08	10000	
11 B	45	1	-3.59	-3.59	ppb	14.19	550	
23 Na	45	1	109.80	109.80	ppb	3.25	300000	
24 Mg	45	1	3,211.00	3211.00	ppb	1.07	125000	
27 Al	45	1	11,030.00	11030.00	ppb	1.19	62500	
29 Si	45	1	382.50	382.50	ppb	4.54	12500	
34 S	45	1	62.62	62.62	ppb	118.05	21000	
39 K	45	1	1,414.00	1414.00	ppb	2.42	125000	
44 Ca	45	1	1,259.00	1259.00	ppb	1.61	125000	
47 Ti	45	1	408.50	408.50	ppb	2.15	12500	
51 V	45	1	26.99	26.99	ppb	1.01	12500	
53 Cr	45	1	19.07	19.07	ppb	1.96	12500	
55 Mn	45	1	269.10	269.10	ppb	1.24	12500	
57 Fe	45	1	16,210.00	16210.00	ppb	1.43	65000	
59 Co	89	1	6.57	6.57	ppb	0.44	12500	
60 Ni	89	1	20.73	20.73	ppb	0.60	2500	
63 Cu	89	1	16.95	16.95	ppb	0.25	2500	
66 Zn	89	1	46.01	46.01	ppb	0.87	2500	
75 As	89	1	3.45	3.45	ppb	0.69	12500	
78 Se	89	1	0.83	0.83	ppb	20.15	10000	
90 Zr	89	1	3.49	3.49	ppb	4.05	550	
95 Mo	89	1	0.67	0.67	ppb	0.36	12500	
107 Ag	115	1	0.04	0.04	ppb	33.96	1000	
111 Cd	115	1	0.06	0.06	ppb	36.42	10000	
118 Sn	115	1	0.51	0.51	ppb	4.25	2500	
121 Sb	115	1	-0.05	-0.05	ppb	23.67	2500	
137 Ba	115	1	38.33	38.33	ppb	0.50	10000	
205 Tl	209	1	-0.13	-0.13	ppb	2.33	12500	
207 Pb	209	1	39.46	39.46	ppb	0.60	12500	
232 Th	209	1	3.47	3.47	ppb	0.79	550	
238 U	209	1	1.13	1.13	ppb	1.54	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	822012	1.07	803890	102.3	60 - 120	
89 Y	1	2866205	0.77	2738325	104.7	60 - 120	
115 In	1	2963553	0.94	2992760	99.0	60 - 120	
209 Bi	1	3835050	0.30	3793264	101.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\037SMPL.D\037SMPL.D#
Date Acquired: Dec 22 2009 05:18 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-46-d
Misc Info:
Vial Number: 2507
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.90	13.90	ppb	4.89	550	
9 Be	45	1	0.53	0.53	ppb	9.15	10000	
11 B	45	1	-2.04	-2.04	ppb	64.66	550	
23 Na	45	1	144.90	144.90	ppb	1.02	300000	
24 Mg	45	1	3,218.00	3218.00	ppb	0.48	125000	
27 Al	45	1	13,190.00	13190.00	ppb	0.40	62500	
29 Si	45	1	370.30	370.30	ppb	6.75	12500	
34 S	45	1	79.95	79.95	ppb	112.16	21000	
39 K	45	1	1,277.00	1277.00	ppb	1.35	125000	
44 Ca	45	1	1,365.00	1365.00	ppb	1.06	125000	
47 Ti	45	1	359.20	359.20	ppb	1.25	12500	
51 V	45	1	31.73	31.73	ppb	1.05	12500	
53 Cr	45	1	28.89	28.89	ppb	1.07	12500	
55 Mn	45	1	257.30	257.30	ppb	1.27	12500	
57 Fe	45	1	18,590.00	18590.00	ppb	1.10	65000	
59 Co	89	1	7.93	7.93	ppb	0.42	12500	
60 Ni	89	1	20.38	20.38	ppb	0.28	2500	
63 Cu	89	1	23.62	23.62	ppb	1.09	2500	
66 Zn	89	1	45.45	45.45	ppb	1.42	2500	
75 As	89	1	4.74	4.74	ppb	0.42	12500	
78 Se	89	1	1.01	1.01	ppb	34.12	10000	
90 Zr	89	1	4.81	4.81	ppb	1.60	550	
95 Mo	89	1	2.49	2.49	ppb	0.74	12500	
107 Ag	115	1	5.67	5.67	ppb	0.59	1000	
111 Cd	115	1	0.06	0.06	ppb	10.89	10000	
118 Sn	115	1	0.80	0.80	ppb	7.71	2500	
121 Sb	115	1	-0.05	-0.05	ppb	27.47	2500	
137 Ba	115	1	37.99	37.99	ppb	0.85	10000	
205 Tl	209	1	-0.16	-0.16	ppb	7.61	12500	
207 Pb	209	1	46.67	46.67	ppb	1.72	12500	
232 Th	209	1	4.72	4.72	ppb	1.25	550	
238 U	209	1	1.40	1.40	ppb	2.11	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	810956	0.43	803890	100.9	60 - 120	
89 Y	1	2803221	0.65	2738325	102.4	60 - 120	
115 In	1	2911237	0.41	2992760	97.3	60 - 120	
209 Bi	1	3863490	1.40	3793264	101.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\038SMPL.D\038SMPL.D#
Date Acquired: Dec 22 2009 05:21 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11091-a-51-d
Misc Info:
Vial Number: 2508
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.62	13.62	ppb	1.64	550	
9 Be	45	1	0.35	0.35	ppb	17.83	10000	
11 B	45	1	4.04	4.04	ppb	12.39	550	
23 Na	45	1	1,121.00	1121.00	ppb	2.08	300000	
24 Mg	45	1	6,967.00	6967.00	ppb	1.57	125000	
27 Al	45	1	9,859.00	9859.00	ppb	1.80	62500	
29 Si	45	1	620.10	620.10	ppb	2.66	12500	
34 S	45	1	214.00	214.00	ppb	20.71	21000	
39 K	45	1	2,490.00	2490.00	ppb	0.55	125000	
44 Ca	45	1	4,794.00	4794.00	ppb	0.15	125000	
47 Ti	45	1	574.90	574.90	ppb	1.12	12500	
51 V	45	1	38.42	38.42	ppb	0.94	12500	
53 Cr	45	1	38.69	38.69	ppb	1.78	12500	
55 Mn	45	1	461.40	461.40	ppb	0.85	12500	
57 Fe	45	1	17,780.00	17780.00	ppb	0.09	65000	
59 Co	89	1	12.16	12.16	ppb	0.29	12500	
60 Ni	89	1	50.72	50.72	ppb	0.28	2500	
63 Cu	89	1	40.49	40.49	ppb	0.27	2500	
66 Zn	89	1	45.51	45.51	ppb	0.73	2500	
75 As	89	1	2.32	2.32	ppb	1.49	12500	
78 Se	89	1	1.23	1.23	ppb	23.55	10000	
90 Zr	89	1	4.00	4.00	ppb	14.26	550	
95 Mo	89	1	3.18	3.18	ppb	2.60	12500	
107 Ag	115	1	0.12	0.12	ppb	4.50	1000	
111 Cd	115	1	0.10	0.10	ppb	14.12	10000	
118 Sn	115	1	0.59	0.59	ppb	4.05	2500	
121 Sb	115	1	-0.06	-0.06	ppb	15.07	2500	
137 Ba	115	1	58.20	58.20	ppb	0.24	10000	
205 Tl	209	1	-0.15	-0.15	ppb	1.80	12500	
207 Pb	209	1	9.31	9.31	ppb	0.98	12500	
232 Th	209	1	7.42	7.42	ppb	0.65	550	
238 U	209	1	1.44	1.44	ppb	0.24	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	802600	0.53	803890	99.8	60 - 120	
89 Y	1	2833204	0.37	2738325	103.5	60 - 120	
115 In	1	2848465	0.48	2992760	95.2	60 - 120	
209 Bi	1	3807610	0.79	3793264	100.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\039SMPL.D\039SMPL.D#
Date Acquired: Dec 22 2009 05:25 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-1-b
Misc Info:
Vial Number: 2509
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.04	12.04	ppb	4.32	550	
9 Be	45	1	0.52	0.52	ppb	6.40	10000	
11 B	45	1	-3.96	-3.96	ppb	20.74	550	
23 Na	45	1	173.70	173.70	ppb	2.89	300000	
24 Mg	45	1	2,738.00	2738.00	ppb	1.59	125000	
27 Al	45	1	12,980.00	12980.00	ppb	1.12	62500	
29 Si	45	1	322.90	322.90	ppb	17.67	12500	
34 S	45	1	98.11	98.11	ppb	93.29	21000	
39 K	45	1	1,069.00	1069.00	ppb	1.41	125000	
44 Ca	45	1	1,226.00	1226.00	ppb	1.05	125000	
47 Ti	45	1	282.40	282.40	ppb	1.42	12500	
51 V	45	1	30.74	30.74	ppb	1.04	12500	
53 Cr	45	1	20.84	20.84	ppb	1.98	12500	
55 Mn	45	1	508.40	508.40	ppb	1.77	12500	
57 Fe	45	1	17,750.00	17750.00	ppb	0.76	65000	
59 Co	89	1	7.31	7.31	ppb	0.84	12500	
60 Ni	89	1	20.98	20.98	ppb	1.35	2500	
63 Cu	89	1	16.21	16.21	ppb	0.64	2500	
66 Zn	89	1	34.19	34.19	ppb	0.67	2500	
75 As	89	1	4.37	4.37	ppb	3.28	12500	
78 Se	89	1	0.88	0.88	ppb	15.18	10000	
90 Zr	89	1	4.21	4.21	ppb	0.86	550	
95 Mo	89	1	0.84	0.84	ppb	3.22	12500	
107 Ag	115	1	0.02	0.02	ppb	60.39	1000	
111 Cd	115	1	0.04	0.04	ppb	34.96	10000	
118 Sn	115	1	4.58	4.58	ppb	1.16	2500	
121 Sb	115	1	-0.08	-0.08	ppb	13.99	2500	
137 Ba	115	1	44.93	44.93	ppb	0.68	10000	
205 Tl	209	1	-0.18	-0.18	ppb	6.62	12500	
207 Pb	209	1	39.43	39.43	ppb	1.20	12500	
232 Th	209	1	3.70	3.70	ppb	0.89	550	
238 U	209	1	1.35	1.35	ppb	1.43	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	824358	1.27	803890	102.5	60 - 120	
89 Y	1	2840818	0.34	2738325	103.7	60 - 120	
115 In	1	2965042	1.29	2992760	99.1	60 - 120	
209 Bi	1	3874548	0.58	3793264	102.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\040SMPL.D\040SMPL.D#
Date Acquired: Dec 22 2009 05:28 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-6-d
Misc Info:
Vial Number: 2510
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.00	10.00	ppb	2.46	550	
9 Be	45	1	0.54	0.54	ppb	14.41	10000	
11 B	45	1	-3.29	-3.29	ppb	25.41	550	
23 Na	45	1	120.20	120.20	ppb	2.77	300000	
24 Mg	45	1	3,570.00	3570.00	ppb	0.78	125000	
27 Al	45	1	10,100.00	10100.00	ppb	0.64	62500	
29 Si	45	1	439.20	439.20	ppb	8.48	12500	
34 S	45	1	140.00	140.00	ppb	55.08	21000	
39 K	45	1	1,425.00	1425.00	ppb	1.62	125000	
44 Ca	45	1	1,073.00	1073.00	ppb	1.35	125000	
47 Ti	45	1	451.80	451.80	ppb	0.96	12500	
51 V	45	1	26.72	26.72	ppb	1.10	12500	
53 Cr	45	1	19.96	19.96	ppb	1.44	12500	
55 Mn	45	1	475.20	475.20	ppb	1.24	12500	
57 Fe	45	1	18,320.00	18320.00	ppb	1.10	65000	
59 Co	89	1	6.93	6.93	ppb	0.50	12500	
60 Ni	89	1	24.72	24.72	ppb	0.61	2500	
63 Cu	89	1	17.22	17.22	ppb	0.90	2500	
66 Zn	89	1	54.56	54.56	ppb	0.57	2500	
75 As	89	1	2.52	2.52	ppb	3.55	12500	
78 Se	89	1	0.96	0.96	ppb	24.42	10000	
90 Zr	89	1	2.44	2.44	ppb	1.98	550	
95 Mo	89	1	0.52	0.52	ppb	3.02	12500	
107 Ag	115	1	0.01	0.01	ppb	160.93	1000	
111 Cd	115	1	0.05	0.05	ppb	6.00	10000	
118 Sn	115	1	0.27	0.27	ppb	16.22	2500	
121 Sb	115	1	-0.08	-0.08	ppb	23.95	2500	
137 Ba	115	1	36.11	36.11	ppb	0.48	10000	
205 Tl	209	1	-0.17	-0.17	ppb	13.70	12500	
207 Pb	209	1	6.60	6.60	ppb	1.12	12500	
232 Th	209	1	3.00	3.00	ppb	0.16	550	
238 U	209	1	0.96	0.96	ppb	0.29	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	807930	0.78	803890	100.5	60 - 120	
89 Y	1	2826920	0.34	2738325	103.2	60 - 120	
115 In	1	2875725	0.86	2992760	96.1	60 - 120	
209 Bi	1	3805248	0.88	3793264	100.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\041SMPL.D\041SMPL.D#
Date Acquired: Dec 22 2009 05:32 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2511
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	78.32	78.32	ppb	2.75	550	
9 Be	45	1	116.10	116.10	ppb	0.68	10000	
11 B	45	1	185.20	185.20	ppb	3.33	550	
23 Na	45	1	2,042.00	2042.00	ppb	1.31	300000	
24 Mg	45	1	2,576.00	2576.00	ppb	1.16	125000	
27 Al	45	1	3,659.00	3659.00	ppb	0.98	62500	
29 Si	45	1	190.20	190.20	ppb	3.75	12500	
34 S	45	1	10,650.00	10650.00	ppb	1.10	21000	
39 K	45	1	4,152.00	4152.00	ppb	0.17	125000	
44 Ca	45	1	2,511.00	2511.00	ppb	1.17	125000	
47 Ti	45	1	199.80	199.80	ppb	0.96	12500	
51 V	45	1	61.61	61.61	ppb	0.61	12500	
53 Cr	45	1	58.20	58.20	ppb	1.04	12500	
55 Mn	45	1	41.39	41.39	ppb	0.41	12500	
57 Fe	45	1	1,001.00	1001.00	ppb	0.36	65000	
59 Co	89	1	62.35	62.35	ppb	0.61	12500	
60 Ni	89	1	60.01	60.01	ppb	0.41	2500	
63 Cu	89	1	61.44	61.44	ppb	0.81	2500	
66 Zn	89	1	61.01	61.01	ppb	0.81	2500	
75 As	89	1	199.70	199.70	ppb	1.20	12500	
78 Se	89	1	97.83	97.83	ppb	2.73	10000	
90 Zr	89	1	169.70	169.70	ppb	2.45	550	
95 Mo	89	1	195.90	195.90	ppb	1.18	12500	
107 Ag	115	1	62.67	62.67	ppb	0.64	1000	
111 Cd	115	1	59.16	59.16	ppb	0.83	10000	
118 Sn	115	1	194.00	194.00	ppb	0.41	2500	
121 Sb	115	1	204.10	204.10	ppb	0.93	2500	
137 Ba	115	1	58.01	58.01	ppb	1.29	10000	
205 Tl	209	1	189.60	189.60	ppb	0.69	12500	
207 Pb	209	1	202.90	202.90	ppb	1.21	12500	
232 Th	209	1	72.13	72.13	ppb	0.66	550	
238 U	209	1	75.43	75.43	ppb	0.80	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	755863	0.63	803890	94.0	60 - 120	
89 Y	1	2570001	0.43	2738325	93.9	60 - 120	
115 In	1	2816044	0.68	2992760	94.1	60 - 120	
209 Bi	1	3679405	0.75	3793264	97.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\042SMPL.D\042SMPL.D#
Date Acquired: Dec 22 2009 05:39 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.00	0.00	ppb	304.41	550	
9 Be	45	1	0.05	0.05	ppb	71.01	10000	
11 B	45	1	0.98	0.98	ppb	30.30	550	
23 Na	45	1	4.45	4.45	ppb	12.67	300000	
24 Mg	45	1	1.83	1.83	ppb	18.65	125000	
27 Al	45	1	3.85	3.85	ppb	31.03	62500	
29 Si	45	1	21.45	21.45	ppb	16.67	12500	
34 S	45	1	269.00	269.00	ppb	27.55	21000	
39 K	45	1	6.42	6.42	ppb	18.99	125000	
44 Ca	45	1	3.87	3.87	ppb	43.74	125000	
47 Ti	45	1	0.23	0.23	ppb	4.25	12500	
51 V	45	1	0.03	0.03	ppb	18.60	12500	
53 Cr	45	1	0.03	0.03	ppb	40.61	12500	
55 Mn	45	1	0.27	0.27	ppb	23.87	12500	
57 Fe	45	1	5.34	5.34	ppb	28.73	65000	
59 Co	89	1	0.02	0.02	ppb	20.64	12500	
60 Ni	89	1	0.01	0.01	ppb	113.28	2500	
63 Cu	89	1	-0.08	-0.08	ppb	6.09	2500	
66 Zn	89	1	-0.01	-0.01	ppb	157.29	2500	
75 As	89	1	0.07	0.07	ppb	5.93	12500	
78 Se	89	1	-0.02	-0.02	ppb	1246.40	10000	
90 Zr	89	1	-0.02	-0.02	ppb	50.47	550	
95 Mo	89	1	0.32	0.32	ppb	16.38	12500	
107 Ag	115	1	0.01	0.01	ppb	26.32	1000	
111 Cd	115	1	0.02	0.02	ppb	40.04	10000	
118 Sn	115	1	0.64	0.64	ppb	16.72	2500	
121 Sb	115	1	0.27	0.27	ppb	8.39	2500	
137 Ba	115	1	0.02	0.02	ppb	152.07	10000	
205 Tl	209	1	-0.06	-0.06	ppb	14.01	12500	
207 Pb	209	1	0.14	0.14	ppb	15.18	12500	
232 Th	209	1	0.31	0.31	ppb	7.38	550	
238 U	209	1	0.01	0.01	ppb	26.69	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	708226	1.28	803890	88.1	60 - 120	
89 Y	1	2465697	1.45	2738325	90.0	60 - 120	
115 In	1	2751221	1.72	2992760	91.9	60 - 120	
209 Bi	1	3636432	0.45	3793264	95.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\043SMPL.D\043SMPL.D#
Date Acquired: Dec 22 2009 05:44 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-6-e du
Misc Info:
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.37	10.37	ppb	4.89	550	
9 Be	45	1	0.67	0.67	ppb	19.41	10000	
11 B	45	1	-3.81	-3.81	ppb	12.06	550	
23 Na	45	1	155.80	155.80	ppb	2.58	300000	
24 Mg	45	1	4,151.00	4151.00	ppb	1.00	125000	
27 Al	45	1	11,770.00	11770.00	ppb	1.56	62500	
29 Si	45	1	425.50	425.50	ppb	7.07	12500	
34 S	45	1	124.00	124.00	ppb	48.15	21000	
39 K	45	1	1,489.00	1489.00	ppb	0.65	125000	
44 Ca	45	1	1,065.00	1065.00	ppb	2.21	125000	
47 Ti	45	1	503.70	503.70	ppb	1.16	12500	
51 V	45	1	31.70	31.70	ppb	0.45	12500	
53 Cr	45	1	24.45	24.45	ppb	1.04	12500	
55 Mn	45	1	599.00	599.00	ppb	0.98	12500	
57 Fe	45	1	22,610.00	22610.00	ppb	1.32	65000	
59 Co	89	1	8.12	8.12	ppb	1.06	12500	
60 Ni	89	1	27.81	27.81	ppb	0.61	2500	
63 Cu	89	1	20.33	20.33	ppb	0.47	2500	
66 Zn	89	1	57.73	57.73	ppb	0.08	2500	
75 As	89	1	3.26	3.26	ppb	1.90	12500	
78 Se	89	1	1.42	1.42	ppb	3.19	10000	
90 Zr	89	1	2.85	2.85	ppb	1.18	550	
95 Mo	89	1	0.84	0.84	ppb	5.95	12500	
107 Ag	115	1	0.01	0.01	ppb	52.47	1000	
111 Cd	115	1	0.08	0.08	ppb	14.16	10000	
118 Sn	115	1	0.76	0.76	ppb	10.03	2500	
121 Sb	115	1	0.03	0.03	ppb	34.00	2500	
137 Ba	115	1	38.29	38.29	ppb	2.62	10000	
205 Tl	209	1	-0.12	-0.12	ppb	8.56	12500	
207 Pb	209	1	8.05	8.05	ppb	0.59	12500	
232 Th	209	1	3.61	3.61	ppb	5.29	550	
238 U	209	1	1.33	1.33	ppb	0.95	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	798527	1.73	803890	99.3	60 - 120	
89 Y	1	2824321	0.50	2738325	103.1	60 - 120	
115 In	1	2860100	0.55	2992760	95.6	60 - 120	
209 Bi	1	3801070	0.32	3793264	100.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\044SMPL.D\044SMPL.D#
Date Acquired: Dec 22 2009 05:47 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-6-f ms
Misc Info:
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.02	13.02	ppb	5.55	550	
9 Be	45	1	5.20	5.20	ppb	7.35	10000	
11 B	45	1	42.99	42.99	ppb	2.96	550	
23 Na	45	1	489.90	489.90	ppb	1.45	300000	
24 Mg	45	1	4,990.00	4990.00	ppb	1.33	125000	
27 Al	45	1	13,270.00	13270.00	ppb	0.89	62500	
29 Si	45	1	570.50	570.50	ppb	3.77	12500	
34 S	45	1	193.40	193.40	ppb	59.10	21000	
39 K	45	1	3,098.00	3098.00	ppb	1.17	125000	
44 Ca	45	1	1,958.00	1958.00	ppb	1.02	125000	
47 Ti	45	1	654.30	654.30	ppb	1.29	12500	
51 V	45	1	49.47	49.47	ppb	1.30	12500	
53 Cr	45	1	40.32	40.32	ppb	0.93	12500	
55 Mn	45	1	615.50	615.50	ppb	1.15	12500	
57 Fe	45	1	23,480.00	23480.00	ppb	0.57	65000	
59 Co	89	1	22.56	22.56	ppb	0.49	12500	
60 Ni	89	1	42.39	42.39	ppb	0.27	2500	
63 Cu	89	1	34.40	34.40	ppb	0.40	2500	
66 Zn	89	1	82.09	82.09	ppb	0.34	2500	
75 As	89	1	47.49	47.49	ppb	1.44	12500	
78 Se	89	1	21.56	21.56	ppb	3.90	10000	
90 Zr	89	1	35.26	35.26	ppb	1.14	550	
95 Mo	89	1	44.11	44.11	ppb	0.75	12500	
107 Ag	115	1	15.11	15.11	ppb	1.45	1000	
111 Cd	115	1	14.44	14.44	ppb	0.85	10000	
118 Sn	115	1	42.53	42.53	ppb	1.52	2500	
121 Sb	115	1	24.50	24.50	ppb	0.48	2500	
137 Ba	115	1	59.78	59.78	ppb	1.92	10000	
205 Tl	209	1	44.14	44.14	ppb	2.52	12500	
207 Pb	209	1	56.28	56.28	ppb	0.53	12500	
232 Th	209	1	4.25	4.25	ppb	1.18	550	
238 U	209	1	1.27	1.27	ppb	0.91	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	803842	1.28	803890	100.0	60 - 120	
89 Y	1	2805884	0.29	2738325	102.5	60 - 120	
115 In	1	2843789	0.69	2992760	95.0	60 - 120	
209 Bi	1	3798821	0.32	3793264	100.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\045SMPL.D\045SMPL.D#
Date Acquired: Dec 22 2009 05:51 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-6-d pds
Misc Info:
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	17.06	17.06	ppb	2.60	550	
9 Be	45	1	5.70	5.70	ppb	4.69	10000	
11 B	45	1	1.23	1.23	ppb	35.35	550	
23 Na	45	1	192.10	192.10	ppb	3.11	300000	
24 Mg	45	1	4,359.00	4359.00	ppb	1.61	125000	
27 Al	45	1	12,350.00	12350.00	ppb	1.17	62500	
29 Si	45	1	599.30	599.30	ppb	1.32	12500	
34 S	45	1	354.50	354.50	ppb	22.25	21000	
39 K	45	1	1,782.00	1782.00	ppb	1.09	125000	
44 Ca	45	1	1,339.00	1339.00	ppb	1.83	125000	
47 Ti	45	1	559.10	559.10	ppb	2.14	12500	
51 V	45	1	37.09	37.09	ppb	1.58	12500	
53 Cr	45	1	28.73	28.73	ppb	2.19	12500	
55 Mn	45	1	574.60	574.60	ppb	1.72	12500	
57 Fe	45	1	22,150.00	22150.00	ppb	2.00	65000	
59 Co	89	1	13.03	13.03	ppb	0.42	12500	
60 Ni	89	1	34.29	34.29	ppb	0.59	2500	
63 Cu	89	1	25.37	25.37	ppb	0.59	2500	
66 Zn	89	1	69.72	69.72	ppb	0.36	2500	
75 As	89	1	7.38	7.38	ppb	2.67	12500	
78 Se	89	1	5.93	5.93	ppb	5.75	10000	
90 Zr	89	1	17.36	17.36	ppb	6.39	550	
95 Mo	89	1	5.41	5.41	ppb	1.34	12500	
107 Ag	115	1	5.07	5.07	ppb	0.59	1000	
111 Cd	115	1	4.89	4.89	ppb	2.70	10000	
118 Sn	115	1	5.65	5.65	ppb	0.94	2500	
121 Sb	115	1	8.90	8.90	ppb	2.67	2500	
137 Ba	115	1	49.47	49.47	ppb	1.10	10000	
205 Tl	209	1	4.91	4.91	ppb	3.27	12500	
207 Pb	209	1	12.72	12.72	ppb	2.15	12500	
232 Th	209	1	8.47	8.47	ppb	1.27	550	
238 U	209	1	5.85	5.85	ppb	1.80	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	803178	1.26	803890	99.9	60 - 120	
89 Y	1	2813325	0.39	2738325	102.7	60 - 120	
115 In	1	2843765	0.83	2992760	95.0	60 - 120	
209 Bi	1	3774979	1.23	3793264	99.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\046SMPL.D\046SMPL.D#
Date Acquired: Dec 22 2009 05:54 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-6-d sd@5
Misc Info:
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	2.57	2.57	ppb	3.88	550	
9 Be	45	1	0.11	0.11	ppb	81.09	10000	
11 B	45	1	-3.73	-3.73	ppb	24.92	550	
23 Na	45	1	31.95	31.95	ppb	4.56	300000	
24 Mg	45	1	957.60	957.60	ppb	0.24	125000	
27 Al	45	1	2,683.00	2683.00	ppb	0.68	62500	
29 Si	45	1	139.20	139.20	ppb	5.13	12500	
34 S	45	1	137.50	137.50	ppb	10.07	21000	
39 K	45	1	459.60	459.60	ppb	1.93	125000	
44 Ca	45	1	277.40	277.40	ppb	2.23	125000	
47 Ti	45	1	115.50	115.50	ppb	1.67	12500	
51 V	45	1	6.93	6.93	ppb	0.41	12500	
53 Cr	45	1	5.09	5.09	ppb	3.55	12500	
55 Mn	45	1	125.80	125.80	ppb	0.88	12500	
57 Fe	45	1	4,925.00	4925.00	ppb	0.89	65000	
59 Co	89	1	1.78	1.78	ppb	0.82	12500	
60 Ni	89	1	6.46	6.46	ppb	0.67	2500	
63 Cu	89	1	4.50	4.50	ppb	1.28	2500	
66 Zn	89	1	15.04	15.04	ppb	0.73	2500	
75 As	89	1	0.70	0.70	ppb	7.58	12500	
78 Se	89	1	0.32	0.32	ppb	41.79	10000	
90 Zr	89	1	0.32	0.32	ppb	4.95	550	
95 Mo	89	1	0.24	0.24	ppb	3.51	12500	
107 Ag	115	1	0.00	0.00	ppb	610.15	1000	
111 Cd	115	1	0.02	0.02	ppb	73.37	10000	
118 Sn	115	1	0.16	0.16	ppb	12.72	2500	
121 Sb	115	1	0.17	0.17	ppb	11.41	2500	
137 Ba	115	1	9.04	9.04	ppb	2.22	10000	
205 Tl	209	1	-0.15	-0.15	ppb	4.55	12500	
207 Pb	209	1	1.73	1.73	ppb	3.00	12500	
232 Th	209	1	0.58	0.58	ppb	1.67	550	
238 U	209	1	0.24	0.24	ppb	2.62	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	772544	0.35	803890	96.1	60 - 120	
89 Y	1	2669818	0.90	2738325	97.5	60 - 120	
115 In	1	2875671	0.76	2992760	96.1	60 - 120	
209 Bi	1	3762970	0.81	3793264	99.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\047SMPL.D\047SMPL.D#
Date Acquired: Dec 22 2009 05:58 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-11-b
Misc Info:
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	19.01	19.01	ppb	4.85	550	
9 Be	45	1	0.79	0.79	ppb	8.59	10000	
11 B	45	1	-1.91	-1.91	ppb	58.81	550	
23 Na	45	1	546.60	546.60	ppb	1.77	300000	
24 Mg	45	1	6,686.00	6686.00	ppb	0.64	125000	
27 Al	45	1	14,980.00	14980.00	ppb	0.90	62500	
29 Si	45	1	496.80	496.80	ppb	2.73	12500	
34 S	45	1	271.00	271.00	ppb	52.25	21000	
39 K	45	1	3,150.00	3150.00	ppb	1.48	125000	
44 Ca	45	1	3,015.00	3015.00	ppb	0.98	125000	
47 Ti	45	1	777.70	777.70	ppb	1.31	12500	
51 V	45	1	44.22	44.22	ppb	0.96	12500	
53 Cr	45	1	36.13	36.13	ppb	2.51	12500	
55 Mn	45	1	676.10	676.10	ppb	1.71	12500	
57 Fe	45	1	22,220.00	22220.00	ppb	1.13	65000	
59 Co	89	1	14.29	14.29	ppb	0.63	12500	
60 Ni	89	1	63.58	63.58	ppb	0.44	2500	
63 Cu	89	1	33.25	33.25	ppb	0.54	2500	
66 Zn	89	1	62.88	62.88	ppb	1.60	2500	
75 As	89	1	3.68	3.68	ppb	2.43	12500	
78 Se	89	1	1.48	1.48	ppb	22.58	10000	
90 Zr	89	1	4.62	4.62	ppb	0.76	550	
95 Mo	89	1	1.34	1.34	ppb	1.34	12500	
107 Ag	115	1	0.03	0.03	ppb	12.80	1000	
111 Cd	115	1	0.17	0.17	ppb	12.29	10000	
118 Sn	115	1	0.75	0.75	ppb	10.17	2500	
121 Sb	115	1	0.02	0.02	ppb	62.19	2500	
137 Ba	115	1	84.34	84.34	ppb	0.43	10000	
205 Tl	209	1	-0.03	-0.03	ppb	57.35	12500	
207 Pb	209	1	12.61	12.61	ppb	0.25	12500	
232 Th	209	1	5.85	5.85	ppb	0.66	550	
238 U	209	1	1.73	1.73	ppb	1.68	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	807009	1.53	803890	100.4	60 - 120	
89 Y	1	2854530	0.59	2738325	104.2	60 - 120	
115 In	1	2826087	0.61	2992760	94.4	60 - 120	
209 Bi	1	3757716	0.61	3793264	99.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\048SMPL.D\048SMPL.D#
Date Acquired: Dec 22 2009 06:01 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-16-b
Misc Info:
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	16.74	16.74	ppb	1.55	550	
9 Be	45	1	0.68	0.68	ppb	9.75	10000	
11 B	45	1	-1.23	-1.23	ppb	93.76	550	
23 Na	45	1	390.60	390.60	ppb	0.60	300000	
24 Mg	45	1	4,563.00	4563.00	ppb	1.01	125000	
27 Al	45	1	14,090.00	14090.00	ppb	0.85	62500	
29 Si	45	1	615.10	615.10	ppb	5.44	12500	
34 S	45	1	459.90	459.90	ppb	9.13	21000	
39 K	45	1	1,868.00	1868.00	ppb	1.95	125000	
44 Ca	45	1	8,868.00	8868.00	ppb	1.30	125000	
47 Ti	45	1	384.70	384.70	ppb	1.95	12500	
51 V	45	1	32.89	32.89	ppb	1.19	12500	
53 Cr	45	1	24.08	24.08	ppb	1.73	12500	
55 Mn	45	1	426.40	426.40	ppb	0.73	12500	
57 Fe	45	1	18,660.00	18660.00	ppb	1.71	65000	
59 Co	89	1	9.85	9.85	ppb	0.71	12500	
60 Ni	89	1	37.93	37.93	ppb	1.21	2500	
63 Cu	89	1	39.33	39.33	ppb	1.27	2500	
66 Zn	89	1	167.30	167.30	ppb	0.78	2500	
75 As	89	1	6.03	6.03	ppb	1.17	12500	
78 Se	89	1	1.67	1.67	ppb	25.34	10000	
90 Zr	89	1	4.92	4.92	ppb	1.93	550	
95 Mo	89	1	0.70	0.70	ppb	6.05	12500	
107 Ag	115	1	0.73	0.73	ppb	0.94	1000	
111 Cd	115	1	1.11	1.11	ppb	2.05	10000	
118 Sn	115	1	4.75	4.75	ppb	1.50	2500	
121 Sb	115	1	0.16	0.16	ppb	16.44	2500	
137 Ba	115	1	121.40	121.40	ppb	1.25	10000	
205 Tl	209	1	-0.13	-0.13	ppb	6.14	12500	
207 Pb	209	1	246.40	246.40	ppb	0.84	12500	
232 Th	209	1	5.18	5.18	ppb	1.09	550	
238 U	209	1	0.99	0.99	ppb	1.51	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	798331	1.30	803890	99.3	60 - 120	
89 Y	1	2816510	0.84	2738325	102.9	60 - 120	
115 In	1	2861869	0.27	2992760	95.6	60 - 120	
209 Bi	1	3818300	0.49	3793264	100.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\049SMPL.D\049SMPL.D#
Date Acquired: Dec 22 2009 06:05 pm
Acq. Method: STL5.M
Operator:
Sample Name: mb 220-34475/1-a
Misc Info:
Vial Number: 3107
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.12	0.12	ppb	14.56	550	
9 Be	45	1	-0.01	-0.01	ppb	146.46	10000	
11 B	45	1	-4.72	-4.72	ppb	13.83	550	
23 Na	45	1	5.94	5.94	ppb	13.43	300000	
24 Mg	45	1	4.64	4.64	ppb	46.35	125000	
27 Al	45	1	14.41	14.41	ppb	41.80	62500	
29 Si	45	1	39.91	39.91	ppb	7.23	12500	
34 S	45	1	305.60	305.60	ppb	29.32	21000	
39 K	45	1	8.61	8.61	ppb	22.43	125000	
44 Ca	45	1	6.80	6.80	ppb	52.13	125000	
47 Ti	45	1	0.85	0.85	ppb	30.32	12500	
51 V	45	1	0.14	0.14	ppb	5.05	12500	
53 Cr	45	1	0.30	0.30	ppb	14.45	12500	
55 Mn	45	1	0.37	0.37	ppb	54.08	12500	
57 Fe	45	1	25.24	25.24	ppb	29.73	65000	
59 Co	89	1	-0.03	-0.03	ppb	22.33	12500	
60 Ni	89	1	0.03	0.03	ppb	62.08	2500	
63 Cu	89	1	-0.03	-0.03	ppb	35.99	2500	
66 Zn	89	1	0.13	0.13	ppb	40.25	2500	
75 As	89	1	0.04	0.04	ppb	34.45	12500	
78 Se	89	1	-0.04	-0.04	ppb	109.71	10000	
90 Zr	89	1	0.79	0.79	ppb	8.36	550	
95 Mo	89	1	0.02	0.02	ppb	81.38	12500	
107 Ag	115	1	0.00	0.00	ppb	155.81	1000	
111 Cd	115	1	0.01	0.01	ppb	51.18	10000	
118 Sn	115	1	0.44	0.44	ppb	7.91	2500	
121 Sb	115	1	-0.06	-0.06	ppb	26.71	2500	
137 Ba	115	1	0.05	0.05	ppb	61.73	10000	
205 Tl	209	1	-0.25	-0.25	ppb	2.68	12500	
207 Pb	209	1	0.26	0.26	ppb	17.71	12500	
232 Th	209	1	0.06	0.06	ppb	23.34	550	
238 U	209	1	-0.01	-0.01	ppb	53.12	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	756363	0.73	803890	94.1	60 - 120	
89 Y	1	2581229	0.62	2738325	94.3	60 - 120	
115 In	1	2811355	0.96	2992760	93.9	60 - 120	
209 Bi	1	3731115	1.30	3793264	98.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\050SMPL.D\050SMPL.D#
Date Acquired: Dec 22 2009 06:08 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-36-f
Misc Info:
Vial Number: 3108
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.61	10.61	ppb	3.01	550	
9 Be	45	1	0.52	0.52	ppb	8.83	10000	
11 B	45	1	-3.04	-3.04	ppb	14.88	550	
23 Na	45	1	118.30	118.30	ppb	0.72	300000	
24 Mg	45	1	3,061.00	3061.00	ppb	1.35	125000	
27 Al	45	1	11,170.00	11170.00	ppb	0.73	62500	
29 Si	45	1	1,334.00	1334.00	ppb	2.61	12500	
34 S	45	1	213.10	213.10	ppb	13.94	21000	
39 K	45	1	1,222.00	1222.00	ppb	0.46	125000	
44 Ca	45	1	1,192.00	1192.00	ppb	0.61	125000	
47 Ti	45	1	398.00	398.00	ppb	0.61	12500	
51 V	45	1	25.76	25.76	ppb	0.61	12500	
53 Cr	45	1	18.47	18.47	ppb	0.25	12500	
55 Mn	45	1	345.70	345.70	ppb	0.45	12500	
57 Fe	45	1	15,580.00	15580.00	ppb	0.70	65000	
59 Co	89	1	7.97	7.97	ppb	0.51	12500	
60 Ni	89	1	28.29	28.29	ppb	0.86	2500	
63 Cu	89	1	28.42	28.42	ppb	0.60	2500	
66 Zn	89	1	38.80	38.80	ppb	0.73	2500	
75 As	89	1	3.27	3.27	ppb	3.86	12500	
78 Se	89	1	1.47	1.47	ppb	8.36	10000	
90 Zr	89	1	2.90	2.90	ppb	2.81	550	
95 Mo	89	1	0.30	0.30	ppb	10.17	12500	
107 Ag	115	1	0.02	0.02	ppb	50.50	1000	
111 Cd	115	1	0.06	0.06	ppb	24.39	10000	
118 Sn	115	1	0.78	0.78	ppb	6.22	2500	
121 Sb	115	1	-0.04	-0.04	ppb	37.34	2500	
137 Ba	115	1	48.70	48.70	ppb	0.55	10000	
205 Tl	209	1	-0.18	-0.18	ppb	8.38	12500	
207 Pb	209	1	12.98	12.98	ppb	0.37	12500	
232 Th	209	1	3.83	3.83	ppb	3.18	550	
238 U	209	1	0.83	0.83	ppb	1.11	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	803841	0.56	803890	100.0	60 - 120	
89 Y	1	2793513	0.52	2738325	102.0	60 - 120	
115 In	1	2874869	0.27	2992760	96.1	60 - 120	
209 Bi	1	3754500	0.25	3793264	99.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\051SMPL.D\051SMPL.D#
Date Acquired: Dec 22 2009 06:12 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-36-i du
Misc Info:
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	17.00	17.00	ppb	2.68	550	
9 Be	45	1	0.73	0.73	ppb	8.23	10000	
11 B	45	1	-2.37	-2.37	ppb	65.37	550	
23 Na	45	1	172.70	172.70	ppb	0.46	300000	
24 Mg	45	1	6,039.00	6039.00	ppb	0.33	125000	
27 Al	45	1	16,500.00	16500.00	ppb	1.15	62500	
29 Si	45	1	1,351.00	1351.00	ppb	1.94	12500	
34 S	45	1	186.00	186.00	ppb	58.23	21000	
39 K	45	1	3,080.00	3080.00	ppb	0.50	125000	
44 Ca	45	1	2,194.00	2194.00	ppb	0.44	125000	
47 Ti	45	1	932.20	932.20	ppb	0.30	12500	
51 V	45	1	43.24	43.24	ppb	0.46	12500	
53 Cr	45	1	33.46	33.46	ppb	0.63	12500	
55 Mn	45	1	526.10	526.10	ppb	0.36	12500	
57 Fe	45	1	24,080.00	24080.00	ppb	0.43	65000	
59 Co	89	1	13.84	13.84	ppb	1.20	12500	
60 Ni	89	1	45.77	45.77	ppb	1.15	2500	
63 Cu	89	1	43.29	43.29	ppb	0.28	2500	
66 Zn	89	1	70.37	70.37	ppb	0.64	2500	
75 As	89	1	3.07	3.07	ppb	2.62	12500	
78 Se	89	1	1.98	1.98	ppb	18.77	10000	
90 Zr	89	1	3.99	3.99	ppb	1.16	550	
95 Mo	89	1	0.30	0.30	ppb	1.16	12500	
107 Ag	115	1	0.02	0.02	ppb	63.57	1000	
111 Cd	115	1	0.10	0.10	ppb	28.48	10000	
118 Sn	115	1	0.95	0.95	ppb	1.75	2500	
121 Sb	115	1	-0.08	-0.08	ppb	38.17	2500	
137 Ba	115	1	94.31	94.31	ppb	0.24	10000	
205 Tl	209	1	-0.08	-0.08	ppb	19.55	12500	
207 Pb	209	1	17.12	17.12	ppb	2.64	12500	
232 Th	209	1	6.99	6.99	ppb	1.07	550	
238 U	209	1	1.13	1.13	ppb	1.85	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	809677	0.44	803890	100.7	60 - 120	
89 Y	1	2862674	0.73	2738325	104.5	60 - 120	
115 In	1	2808977	0.53	2992760	93.9	60 - 120	
209 Bi	1	3684583	1.64	3793264	97.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\052SMPL.D\052SMPL.D#
Date Acquired: Dec 22 2009 06:15 pm
Acq. Method: STL5.M
Operator:
Sample Name: lcs 220-34475/2-a
Misc Info:
Vial Number: 3110
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.13	0.13	ppb	51.38	550	
9 Be	45	1	26.03	26.03	ppb	2.05	10000	
11 B	45	1	241.70	241.70	ppb	1.56	550	
23 Na	45	1	7,524.00	7524.00	ppb	0.84	300000	
24 Mg	45	1	3,717.00	3717.00	ppb	0.67	125000	
27 Al	45	1	1,576.00	1576.00	ppb	0.52	62500	
29 Si	45	1	239.00	239.00	ppb	3.32	12500	
34 S	45	1	280.90	280.90	ppb	20.90	21000	
39 K	45	1	5,335.00	5335.00	ppb	0.61	125000	
44 Ca	45	1	7,243.00	7243.00	ppb	0.87	125000	
47 Ti	45	1	258.70	258.70	ppb	1.08	12500	
51 V	45	1	80.36	80.36	ppb	0.27	12500	
53 Cr	45	1	75.79	75.79	ppb	0.40	12500	
55 Mn	45	1	53.90	53.90	ppb	0.76	12500	
57 Fe	45	1	5,919.00	5919.00	ppb	1.12	65000	
59 Co	89	1	83.03	83.03	ppb	0.46	12500	
60 Ni	89	1	79.55	79.55	ppb	0.45	2500	
63 Cu	89	1	80.74	80.74	ppb	0.51	2500	
66 Zn	89	1	78.97	78.97	ppb	0.47	2500	
75 As	89	1	265.40	265.40	ppb	0.68	12500	
78 Se	89	1	127.70	127.70	ppb	1.79	10000	
90 Zr	89	1	269.60	269.60	ppb	1.01	550	
95 Mo	89	1	253.10	253.10	ppb	0.83	12500	
107 Ag	115	1	79.92	79.92	ppb	0.60	1000	
111 Cd	115	1	77.02	77.02	ppb	1.05	10000	
118 Sn	115	1	252.60	252.60	ppb	1.18	2500	
121 Sb	115	1	268.50	268.50	ppb	0.26	2500	
137 Ba	115	1	75.58	75.58	ppb	0.78	10000	
205 Tl	209	1	238.10	238.10	ppb	0.50	12500	
207 Pb	209	1	263.90	263.90	ppb	0.59	12500	
232 Th	209	1	0.40	0.40	ppb	16.83	550	
238 U	209	1	-0.01	-0.01	ppb	76.86	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	796775	0.32	803890	99.1	60 - 120	
89 Y	1	2633046	0.27	2738325	96.2	60 - 120	
115 In	1	2864793	0.58	2992760	95.7	60 - 120	
209 Bi	1	3741289	0.37	3793264	98.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\053SMPL.D\053SMPL.D#
Date Acquired: Dec 22 2009 06:19 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3111
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	78.89	78.89	ppb	2.46	550	
9 Be	45	1	117.30	117.30	ppb	0.97	10000	
11 B	45	1	186.60	186.60	ppb	2.34	550	
23 Na	45	1	2,065.00	2065.00	ppb	0.54	300000	
24 Mg	45	1	2,588.00	2588.00	ppb	1.09	125000	
27 Al	45	1	3,685.00	3685.00	ppb	0.76	62500	
29 Si	45	1	178.20	178.20	ppb	5.51	12500	
34 S	45	1	11,060.00	11060.00	ppb	1.52	21000	
39 K	45	1	4,169.00	4169.00	ppb	1.71	125000	
44 Ca	45	1	2,544.00	2544.00	ppb	1.79	125000	
47 Ti	45	1	199.80	199.80	ppb	0.42	12500	
51 V	45	1	61.88	61.88	ppb	0.89	12500	
53 Cr	45	1	58.20	58.20	ppb	0.23	12500	
55 Mn	45	1	42.00	42.00	ppb	0.73	12500	
57 Fe	45	1	998.00	998.00	ppb	1.12	65000	
59 Co	89	1	63.74	63.74	ppb	1.37	12500	
60 Ni	89	1	60.87	60.87	ppb	0.30	2500	
63 Cu	89	1	62.31	62.31	ppb	0.40	2500	
66 Zn	89	1	61.55	61.55	ppb	0.44	2500	
75 As	89	1	203.30	203.30	ppb	0.74	12500	
78 Se	89	1	98.70	98.70	ppb	1.96	10000	
90 Zr	89	1	165.90	165.90	ppb	1.19	550	
95 Mo	89	1	198.60	198.60	ppb	0.11	12500	
107 Ag	115	1	62.61	62.61	ppb	1.50	1000	
111 Cd	115	1	59.37	59.37	ppb	0.62	10000	
118 Sn	115	1	194.40	194.40	ppb	1.23	2500	
121 Sb	115	1	205.20	205.20	ppb	0.89	2500	
137 Ba	115	1	57.59	57.59	ppb	0.45	10000	
205 Tl	209	1	195.20	195.20	ppb	1.39	12500	
207 Pb	209	1	205.70	205.70	ppb	1.42	12500	
232 Th	209	1	72.00	72.00	ppb	1.14	550	
238 U	209	1	75.66	75.66	ppb	0.79	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	774863	0.93	803890	96.4	60 - 120	
89 Y	1	2597700	0.30	2738325	94.9	60 - 120	
115 In	1	2851635	0.76	2992760	95.3	60 - 120	
209 Bi	1	3606242	0.56	3793264	95.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\054SMPL.D\054SMPL.D#
Date Acquired: Dec 22 2009 06:25 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3112
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.01	0.01	ppb	169.66	550	
9 Be	45	1	0.03	0.03	ppb	128.06	10000	
11 B	45	1	2.34	2.34	ppb	36.20	550	
23 Na	45	1	5.24	5.24	ppb	4.08	300000	
24 Mg	45	1	3.52	3.52	ppb	29.27	125000	
27 Al	45	1	8.89	8.89	ppb	31.64	62500	
29 Si	45	1	13.58	13.58	ppb	21.33	12500	
34 S	45	1	345.60	345.60	ppb	7.58	21000	
39 K	45	1	8.43	8.43	ppb	20.27	125000	
44 Ca	45	1	4.73	4.73	ppb	20.20	125000	
47 Ti	45	1	0.44	0.44	ppb	23.17	12500	
51 V	45	1	0.05	0.05	ppb	28.89	12500	
53 Cr	45	1	0.05	0.05	ppb	46.62	12500	
55 Mn	45	1	0.41	0.41	ppb	22.06	12500	
57 Fe	45	1	11.32	11.32	ppb	32.96	65000	
59 Co	89	1	0.04	0.04	ppb	11.03	12500	
60 Ni	89	1	0.03	0.03	ppb	25.54	2500	
63 Cu	89	1	-0.06	-0.06	ppb	21.42	2500	
66 Zn	89	1	-0.03	-0.03	ppb	38.83	2500	
75 As	89	1	0.12	0.12	ppb	39.99	12500	
78 Se	89	1	0.15	0.15	ppb	149.42	10000	
90 Zr	89	1	0.00	0.00	ppb	1806.90	550	
95 Mo	89	1	0.59	0.59	ppb	19.34	12500	
107 Ag	115	1	0.03	0.03	ppb	35.05	1000	
111 Cd	115	1	0.03	0.03	ppb	4.45	10000	
118 Sn	115	1	1.38	1.38	ppb	11.35	2500	
121 Sb	115	1	0.48	0.48	ppb	7.62	2500	
137 Ba	115	1	0.05	0.05	ppb	26.19	10000	
205 Tl	209	1	0.03	0.03	ppb	47.91	12500	
207 Pb	209	1	0.19	0.19	ppb	17.58	12500	
232 Th	209	1	0.41	0.41	ppb	8.92	550	
238 U	209	1	0.02	0.02	ppb	25.79	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	736660	0.65	803890	91.6	60 - 120	
89 Y	1	2546554	1.19	2738325	93.0	60 - 120	
115 In	1	2778081	0.66	2992760	92.8	60 - 120	
209 Bi	1	3674979	1.21	3793264	96.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\055SMPL.D\055SMPL.D#
Date Acquired: Dec 22 2009 06:29 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-36-j ms
Misc Info:
Vial Number: 3201
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	22.28	22.28	ppb	4.84	550	
9 Be	45	1	5.92	5.92	ppb	2.26	10000	
11 B	45	1	49.09	49.09	ppb	2.61	550	
23 Na	45	1	546.60	546.60	ppb	0.66	300000	
24 Mg	45	1	7,921.00	7921.00	ppb	0.40	125000	
27 Al	45	1	20,210.00	20210.00	ppb	0.29	62500	
29 Si	45	1	582.70	582.70	ppb	5.76	12500	
34 S	45	1	162.60	162.60	ppb	29.92	21000	
39 K	45	1	5,125.00	5125.00	ppb	0.51	125000	
44 Ca	45	1	2,846.00	2846.00	ppb	1.68	125000	
47 Ti	45	1	1,048.00	1048.00	ppb	0.94	12500	
51 V	45	1	62.37	62.37	ppb	1.28	12500	
53 Cr	45	1	53.33	53.33	ppb	1.15	12500	
55 Mn	45	1	579.20	579.20	ppb	0.29	12500	
57 Fe	45	1	26,500.00	26500.00	ppb	0.87	65000	
59 Co	89	1	31.83	31.83	ppb	0.47	12500	
60 Ni	89	1	67.65	67.65	ppb	0.71	2500	
63 Cu	89	1	56.59	56.59	ppb	0.26	2500	
66 Zn	89	1	92.61	92.61	ppb	0.12	2500	
75 As	89	1	51.16	51.16	ppb	1.21	12500	
78 Se	89	1	24.07	24.07	ppb	1.54	10000	
90 Zr	89	1	39.26	39.26	ppb	1.37	550	
95 Mo	89	1	47.22	47.22	ppb	0.35	12500	
107 Ag	115	1	16.53	16.53	ppb	0.77	1000	
111 Cd	115	1	15.69	15.69	ppb	0.42	10000	
118 Sn	115	1	51.79	51.79	ppb	0.35	2500	
121 Sb	115	1	22.66	22.66	ppb	0.90	2500	
137 Ba	115	1	124.60	124.60	ppb	0.33	10000	
205 Tl	209	1	49.35	49.35	ppb	2.49	12500	
207 Pb	209	1	67.32	67.32	ppb	0.74	12500	
232 Th	209	1	7.81	7.81	ppb	2.48	550	
238 U	209	1	1.45	1.45	ppb	0.44	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	827043	1.08	803890	102.9	60 - 120	
89 Y	1	2867551	0.62	2738325	104.7	60 - 120	
115 In	1	2810798	0.76	2992760	93.9	60 - 120	
209 Bi	1	3664882	1.02	3793264	96.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\056SMPL.D\056SMPL.D#
Date Acquired: Dec 22 2009 06:32 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-36-f pds
Misc Info:
Vial Number: 3202
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	15.94	15.94	ppb	0.50	550	
9 Be	45	1	5.26	5.26	ppb	4.91	10000	
11 B	45	1	3.42	3.42	ppb	44.78	550	
23 Na	45	1	170.60	170.60	ppb	1.55	300000	
24 Mg	45	1	3,075.00	3075.00	ppb	1.09	125000	
27 Al	45	1	11,150.00	11150.00	ppb	1.60	62500	
29 Si	45	1	1,336.00	1336.00	ppb	1.91	12500	
34 S	45	1	395.80	395.80	ppb	15.62	21000	
39 K	45	1	1,274.00	1274.00	ppb	0.74	125000	
44 Ca	45	1	1,220.00	1220.00	ppb	1.20	125000	
47 Ti	45	1	396.10	396.10	ppb	0.77	12500	
51 V	45	1	30.16	30.16	ppb	0.90	12500	
53 Cr	45	1	22.95	22.95	ppb	1.80	12500	
55 Mn	45	1	345.80	345.80	ppb	0.15	12500	
57 Fe	45	1	15,370.00	15370.00	ppb	0.78	65000	
59 Co	89	1	12.83	12.83	ppb	0.64	12500	
60 Ni	89	1	32.78	32.78	ppb	0.61	2500	
63 Cu	89	1	33.39	33.39	ppb	0.33	2500	
66 Zn	89	1	42.98	42.98	ppb	0.88	2500	
75 As	89	1	7.96	7.96	ppb	1.02	12500	
78 Se	89	1	6.25	6.25	ppb	2.25	10000	
90 Zr	89	1	21.92	21.92	ppb	9.73	550	
95 Mo	89	1	5.38	5.38	ppb	1.87	12500	
107 Ag	115	1	5.29	5.29	ppb	0.26	1000	
111 Cd	115	1	4.96	4.96	ppb	1.15	10000	
118 Sn	115	1	6.76	6.76	ppb	0.84	2500	
121 Sb	115	1	9.46	9.46	ppb	2.07	2500	
137 Ba	115	1	52.59	52.59	ppb	1.05	10000	
205 Tl	209	1	5.00	5.00	ppb	1.18	12500	
207 Pb	209	1	17.59	17.59	ppb	0.27	12500	
232 Th	209	1	8.70	8.70	ppb	1.64	550	
238 U	209	1	5.44	5.44	ppb	0.85	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	813717	0.75	803890	101.2	60 - 120	
89 Y	1	2791143	0.46	2738325	101.9	60 - 120	
115 In	1	2880098	1.16	2992760	96.2	60 - 120	
209 Bi	1	3787791	1.00	3793264	99.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\057SMPL.D\057SMPL.D#
Date Acquired: Dec 22 2009 06:36 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-36-f sd@5
Misc Info:
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	2.23	2.23	ppb	1.58	550	
9 Be	45	1	0.06	0.06	ppb	57.13	10000	
11 B	45	1	-3.30	-3.30	ppb	31.66	550	
23 Na	45	1	24.24	24.24	ppb	2.88	300000	
24 Mg	45	1	654.80	654.80	ppb	0.77	125000	
27 Al	45	1	2,385.00	2385.00	ppb	0.89	62500	
29 Si	45	1	283.40	283.40	ppb	2.85	12500	
34 S	45	1	67.23	67.23	ppb	72.38	21000	
39 K	45	1	313.60	313.60	ppb	1.73	125000	
44 Ca	45	1	245.40	245.40	ppb	1.59	125000	
47 Ti	45	1	80.70	80.70	ppb	0.84	12500	
51 V	45	1	5.28	5.28	ppb	0.62	12500	
53 Cr	45	1	3.73	3.73	ppb	3.79	12500	
55 Mn	45	1	73.00	73.00	ppb	0.45	12500	
57 Fe	45	1	3,326.00	3326.00	ppb	0.63	65000	
59 Co	89	1	1.64	1.64	ppb	2.35	12500	
60 Ni	89	1	5.94	5.94	ppb	2.21	2500	
63 Cu	89	1	5.95	5.95	ppb	0.28	2500	
66 Zn	89	1	8.24	8.24	ppb	1.98	2500	
75 As	89	1	0.72	0.72	ppb	11.35	12500	
78 Se	89	1	0.18	0.18	ppb	117.33	10000	
90 Zr	89	1	0.33	0.33	ppb	13.67	550	
95 Mo	89	1	0.18	0.18	ppb	12.95	12500	
107 Ag	115	1	0.00	0.00	ppb	4168.60	1000	
111 Cd	115	1	0.02	0.02	ppb	82.15	10000	
118 Sn	115	1	0.34	0.34	ppb	20.00	2500	
121 Sb	115	1	0.14	0.14	ppb	5.48	2500	
137 Ba	115	1	9.80	9.80	ppb	1.16	10000	
205 Tl	209	1	-0.15	-0.15	ppb	6.96	12500	
207 Pb	209	1	2.70	2.70	ppb	3.33	12500	
232 Th	209	1	0.61	0.61	ppb	1.76	550	
238 U	209	1	0.16	0.16	ppb	4.64	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	776505	0.19	803890	96.6	60 - 120	
89 Y	1	2656993	0.77	2738325	97.0	60 - 120	
115 In	1	2850457	0.69	2992760	95.2	60 - 120	
209 Bi	1	3714046	1.09	3793264	97.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\058SMPL.D\058SMPL.D#
Date Acquired: Dec 22 2009 06:39 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-1-d
Misc Info:
Vial Number: 3204
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	15.35	15.35	ppb	5.42	550	
9 Be	45	1	0.51	0.51	ppb	5.70	10000	
11 B	45	1	6.66	6.66	ppb	19.53	550	
23 Na	45	1	247.20	247.20	ppb	0.67	300000	
24 Mg	45	1	6,520.00	6520.00	ppb	0.31	125000	
27 Al	45	1	9,896.00	9896.00	ppb	1.87	62500	
29 Si	45	1	1,296.00	1296.00	ppb	2.75	12500	
34 S	45	1	2,171.00	2171.00	ppb	0.50	21000	
39 K	45	1	994.50	994.50	ppb	1.25	125000	
44 Ca	45	1	46,970.00	46970.00	ppb	0.72	125000	
47 Ti	45	1	305.00	305.00	ppb	0.57	12500	
51 V	45	1	19.46	19.46	ppb	0.88	12500	
53 Cr	45	1	14.04	14.04	ppb	1.48	12500	
55 Mn	45	1	367.30	367.30	ppb	0.37	12500	
57 Fe	45	1	17,860.00	17860.00	ppb	0.61	65000	
59 Co	89	1	9.17	9.17	ppb	1.37	12500	
60 Ni	89	1	17.83	17.83	ppb	0.79	2500	
63 Cu	89	1	46.92	46.92	ppb	1.35	2500	
66 Zn	89	1	159.70	159.70	ppb	1.15	2500	
75 As	89	1	9.66	9.66	ppb	0.12	12500	
78 Se	89	1	0.75	0.75	ppb	16.52	10000	
90 Zr	89	1	8.91	8.91	ppb	0.61	550	
95 Mo	89	1	0.67	0.67	ppb	7.60	12500	
107 Ag	115	1	0.14	0.14	ppb	14.36	1000	
111 Cd	115	1	0.30	0.30	ppb	13.20	10000	
118 Sn	115	1	4.11	4.11	ppb	1.51	2500	
121 Sb	115	1	0.28	0.28	ppb	1.59	2500	
137 Ba	115	1	63.54	63.54	ppb	1.51	10000	
205 Tl	209	1	-0.11	-0.11	ppb	5.47	12500	
207 Pb	209	1	140.00	140.00	ppb	0.58	12500	
232 Th	209	1	2.42	2.42	ppb	1.03	550	
238 U	209	1	0.50	0.50	ppb	0.91	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	818290	1.85	803890	101.8	60 - 120	
89 Y	1	2748587	0.60	2738325	100.4	60 - 120	
115 In	1	2858666	1.26	2992760	95.5	60 - 120	
209 Bi	1	3606219	0.54	3793264	95.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\059SMPL.D\059SMPL.D#
Date Acquired: Dec 22 2009 06:43 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-2-d
Misc Info:
Vial Number: 3205
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	5.18	5.18	ppb	5.74	550	
9 Be	45	1	0.20	0.20	ppb	78.97	10000	
11 B	45	1	-1.52	-1.52	ppb	139.26	550	
23 Na	45	1	181.00	181.00	ppb	0.37	300000	
24 Mg	45	1	2,395.00	2395.00	ppb	0.31	125000	
27 Al	45	1	3,502.00	3502.00	ppb	0.57	62500	
29 Si	45	1	713.00	713.00	ppb	1.49	12500	
34 S	45	1	1,055.00	1055.00	ppb	8.01	21000	
39 K	45	1	508.50	508.50	ppb	0.38	125000	
44 Ca	45	1	17,170.00	17170.00	ppb	1.02	125000	
47 Ti	45	1	151.80	151.80	ppb	0.65	12500	
51 V	45	1	10.66	10.66	ppb	0.11	12500	
53 Cr	45	1	21.52	21.52	ppb	0.84	12500	
55 Mn	45	1	191.20	191.20	ppb	0.56	12500	
57 Fe	45	1	12,780.00	12780.00	ppb	0.41	65000	
59 Co	89	1	2.98	2.98	ppb	0.94	12500	
60 Ni	89	1	12.65	12.65	ppb	2.15	2500	
63 Cu	89	1	80.13	80.13	ppb	0.39	2500	
66 Zn	89	1	216.70	216.70	ppb	0.72	2500	
75 As	89	1	7.67	7.67	ppb	1.08	12500	
78 Se	89	1	0.55	0.55	ppb	26.17	10000	
90 Zr	89	1	4.14	4.14	ppb	2.54	550	
95 Mo	89	1	0.51	0.51	ppb	9.46	12500	
107 Ag	115	1	1.93	1.93	ppb	0.61	1000	
111 Cd	115	1	0.93	0.93	ppb	1.09	10000	
118 Sn	115	1	3.49	3.49	ppb	1.17	2500	
121 Sb	115	1	0.24	0.24	ppb	7.82	2500	
137 Ba	115	1	78.25	78.25	ppb	0.54	10000	
205 Tl	209	1	-0.12	-0.12	ppb	12.61	12500	
207 Pb	209	1	355.30	355.30	ppb	1.57	12500	
232 Th	209	1	0.94	0.94	ppb	1.22	550	
238 U	209	1	0.26	0.26	ppb	2.05	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	849137	0.32	803890	105.6	60 - 120	
89 Y	1	2786703	0.91	2738325	101.8	60 - 120	
115 In	1	2949526	1.08	2992760	98.6	60 - 120	
209 Bi	1	3774973	0.95	3793264	99.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\060SMPL.D\060SMPL.D#
Date Acquired: Dec 22 2009 06:46 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-3-d
Misc Info:
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	18.42	18.42	ppb	1.62	550	
9 Be	45	1	0.70	0.70	ppb	4.74	10000	
11 B	45	1	0.43	0.43	ppb	281.24	550	
23 Na	45	1	153.20	153.20	ppb	2.90	300000	
24 Mg	45	1	5,264.00	5264.00	ppb	1.66	125000	
27 Al	45	1	14,160.00	14160.00	ppb	1.37	62500	
29 Si	45	1	776.50	776.50	ppb	2.15	12500	
34 S	45	1	391.90	391.90	ppb	29.63	21000	
39 K	45	1	2,337.00	2337.00	ppb	1.57	125000	
44 Ca	45	1	4,232.00	4232.00	ppb	0.90	125000	
47 Ti	45	1	513.70	513.70	ppb	1.58	12500	
51 V	45	1	31.41	31.41	ppb	1.49	12500	
53 Cr	45	1	23.95	23.95	ppb	2.24	12500	
55 Mn	45	1	449.60	449.60	ppb	1.38	12500	
57 Fe	45	1	21,160.00	21160.00	ppb	1.59	65000	
59 Co	89	1	10.20	10.20	ppb	0.77	12500	
60 Ni	89	1	30.62	30.62	ppb	0.67	2500	
63 Cu	89	1	22.26	22.26	ppb	0.43	2500	
66 Zn	89	1	70.49	70.49	ppb	0.69	2500	
75 As	89	1	4.78	4.78	ppb	3.95	12500	
78 Se	89	1	1.55	1.55	ppb	10.08	10000	
90 Zr	89	1	5.10	5.10	ppb	1.11	550	
95 Mo	89	1	0.34	0.34	ppb	5.64	12500	
107 Ag	115	1	0.06	0.06	ppb	3.94	1000	
111 Cd	115	1	0.10	0.10	ppb	21.53	10000	
118 Sn	115	1	0.97	0.97	ppb	2.68	2500	
121 Sb	115	1	-0.03	-0.03	ppb	14.82	2500	
137 Ba	115	1	83.60	83.60	ppb	0.28	10000	
205 Tl	209	1	-0.12	-0.12	ppb	6.29	12500	
207 Pb	209	1	63.84	63.84	ppb	0.85	12500	
232 Th	209	1	5.64	5.64	ppb	2.56	550	
238 U	209	1	0.61	0.61	ppb	1.67	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	851748	1.48	803890	106.0	60 - 120	
89 Y	1	2877622	0.36	2738325	105.1	60 - 120	
115 In	1	2894124	1.13	2992760	96.7	60 - 120	
209 Bi	1	3663800	1.20	3793264	96.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\061SMPL.D\061SMPL.D#
Date Acquired: Dec 22 2009 06:50 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-4-d
Misc Info:
Vial Number: 3207
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.07	12.07	ppb	6.14	550	
9 Be	45	1	0.39	0.39	ppb	23.37	10000	
11 B	45	1	-1.49	-1.49	ppb	39.34	550	
23 Na	45	1	84.51	84.51	ppb	1.66	300000	
24 Mg	45	1	2,740.00	2740.00	ppb	0.27	125000	
27 Al	45	1	8,562.00	8562.00	ppb	0.86	62500	
29 Si	45	1	774.50	774.50	ppb	2.91	12500	
34 S	45	1	254.10	254.10	ppb	4.01	21000	
39 K	45	1	1,100.00	1100.00	ppb	1.10	125000	
44 Ca	45	1	2,250.00	2250.00	ppb	0.44	125000	
47 Ti	45	1	191.30	191.30	ppb	1.07	12500	
51 V	45	1	19.28	19.28	ppb	0.39	12500	
53 Cr	45	1	13.93	13.93	ppb	1.28	12500	
55 Mn	45	1	373.00	373.00	ppb	0.37	12500	
57 Fe	45	1	14,290.00	14290.00	ppb	0.63	65000	
59 Co	89	1	7.76	7.76	ppb	0.23	12500	
60 Ni	89	1	18.86	18.86	ppb	0.31	2500	
63 Cu	89	1	16.23	16.23	ppb	0.19	2500	
66 Zn	89	1	48.05	48.05	ppb	0.72	2500	
75 As	89	1	4.17	4.17	ppb	1.76	12500	
78 Se	89	1	1.33	1.33	ppb	12.70	10000	
90 Zr	89	1	3.96	3.96	ppb	3.75	550	
95 Mo	89	1	0.41	0.41	ppb	4.03	12500	
107 Ag	115	1	0.05	0.05	ppb	13.83	1000	
111 Cd	115	1	0.08	0.08	ppb	18.02	10000	
118 Sn	115	1	0.93	0.93	ppb	3.66	2500	
121 Sb	115	1	-0.01	-0.01	ppb	57.43	2500	
137 Ba	115	1	47.80	47.80	ppb	0.57	10000	
205 Tl	209	1	-0.17	-0.17	ppb	7.76	12500	
207 Pb	209	1	57.30	57.30	ppb	1.25	12500	
232 Th	209	1	3.09	3.09	ppb	0.40	550	
238 U	209	1	0.75	0.75	ppb	1.72	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	842801	0.11	803890	104.8	60 - 120	
89 Y	1	2841503	0.63	2738325	103.8	60 - 120	
115 In	1	2911625	1.34	2992760	97.3	60 - 120	
209 Bi	1	3722041	0.71	3793264	98.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\062SMPL.D\062SMPL.D#
Date Acquired: Dec 22 2009 06:53 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-5-d
Misc Info:
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	7.50	7.50	ppb	2.37	550	
9 Be	45	1	0.38	0.38	ppb	28.44	10000	
11 B	45	1	6.44	6.44	ppb	12.56	550	
23 Na	45	1	257.60	257.60	ppb	1.71	300000	
24 Mg	45	1	4,851.00	4851.00	ppb	1.34	125000	
27 Al	45	1	7,576.00	7576.00	ppb	1.32	62500	
29 Si	45	1	6,704.00	6704.00	ppb	2.61	12500	
34 S	45	1	1,566.00	1566.00	ppb	7.28	21000	
39 K	45	1	904.90	904.90	ppb	1.50	125000	
44 Ca	45	1	46,580.00	46580.00	ppb	1.13	125000	
47 Ti	45	1	448.70	448.70	ppb	2.59	12500	
51 V	45	1	22.16	22.16	ppb	1.87	12500	
53 Cr	45	1	58.09	58.09	ppb	1.24	12500	
55 Mn	45	1	384.90	384.90	ppb	1.58	12500	
57 Fe	45	1	23,470.00	23470.00	ppb	1.94	65000	
59 Co	89	1	5.42	5.42	ppb	0.76	12500	
60 Ni	89	1	58.81	58.81	ppb	0.99	2500	
63 Cu	89	1	82.27	82.27	ppb	1.14	2500	
66 Zn	89	1	597.90	597.90	ppb	1.24	2500	
75 As	89	1	7.11	7.11	ppb	1.51	12500	
78 Se	89	1	0.86	0.86	ppb	57.93	10000	
90 Zr	89	1	12.11	12.11	ppb	1.40	550	
95 Mo	89	1	3.17	3.17	ppb	1.14	12500	
107 Ag	115	1	0.29	0.29	ppb	2.49	1000	
111 Cd	115	1	2.66	2.66	ppb	1.14	10000	
118 Sn	115	1	6.08	6.08	ppb	1.07	2500	
121 Sb	115	1	0.68	0.68	ppb	4.04	2500	
137 Ba	115	1	78.89	78.89	ppb	1.84	10000	
205 Tl	209	1	-0.16	-0.16	ppb	5.13	12500	
207 Pb	209	1	2,244.00	2244.00	ppb	0.55	12500	
232 Th	209	1	1.64	1.64	ppb	0.91	550	
238 U	209	1	0.45	0.45	ppb	3.02	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	832137	2.04	803890	103.5	60 - 120	
89 Y	1	2762665	0.73	2738325	100.9	60 - 120	
115 In	1	2869247	0.67	2992760	95.9	60 - 120	
209 Bi	1	3639338	0.50	3793264	95.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\063SMPL.D\063SMPL.D#
Date Acquired: Dec 22 2009 06:57 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-6-d
Misc Info:
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.29	13.29	ppb	4.77	550	
9 Be	45	1	0.21	0.21	ppb	15.32	10000	
11 B	45	1	3.15	3.15	ppb	55.22	550	
23 Na	45	1	249.80	249.80	ppb	0.89	300000	
24 Mg	45	1	4,191.00	4191.00	ppb	0.27	125000	
27 Al	45	1	5,294.00	5294.00	ppb	0.20	62500	
29 Si	45	1	1,080.00	1080.00	ppb	0.96	12500	
34 S	45	1	2,252.00	2252.00	ppb	9.01	21000	
39 K	45	1	857.50	857.50	ppb	2.17	125000	
44 Ca	45	1	17,160.00	17160.00	ppb	1.28	125000	
47 Ti	45	1	216.00	216.00	ppb	1.44	12500	
51 V	45	1	10.94	10.94	ppb	0.67	12500	
53 Cr	45	1	8.55	8.55	ppb	1.63	12500	
55 Mn	45	1	189.10	189.10	ppb	0.70	12500	
57 Fe	45	1	9,539.00	9539.00	ppb	0.61	65000	
59 Co	89	1	3.82	3.82	ppb	1.60	12500	
60 Ni	89	1	11.54	11.54	ppb	1.19	2500	
63 Cu	89	1	8.22	8.22	ppb	1.66	2500	
66 Zn	89	1	26.84	26.84	ppb	2.26	2500	
75 As	89	1	3.75	3.75	ppb	6.03	12500	
78 Se	89	1	0.73	0.73	ppb	23.10	10000	
90 Zr	89	1	7.76	7.76	ppb	1.13	550	
95 Mo	89	1	1.33	1.33	ppb	3.07	12500	
107 Ag	115	1	0.02	0.02	ppb	46.06	1000	
111 Cd	115	1	0.02	0.02	ppb	32.06	10000	
118 Sn	115	1	0.57	0.57	ppb	3.71	2500	
121 Sb	115	1	-0.03	-0.03	ppb	20.91	2500	
137 Ba	115	1	29.72	29.72	ppb	0.35	10000	
205 Tl	209	1	-0.23	-0.23	ppb	0.51	12500	
207 Pb	209	1	15.11	15.11	ppb	0.62	12500	
232 Th	209	1	1.85	1.85	ppb	1.54	550	
238 U	209	1	0.44	0.44	ppb	2.88	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	857465	0.39	803890	106.7	60 - 120	
89 Y	1	2811503	0.75	2738325	102.7	60 - 120	
115 In	1	2914750	0.90	2992760	97.4	60 - 120	
209 Bi	1	3697053	0.55	3793264	97.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\064SMPL.D\064SMPL.D#
Date Acquired: Dec 22 2009 07:00 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-7-d
Misc Info:
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	11.09	11.09	ppb	4.27	550	
9 Be	45	1	0.18	0.18	ppb	11.69	10000	
11 B	45	1	0.68	0.68	ppb	104.45	550	
23 Na	45	1	261.60	261.60	ppb	1.64	300000	
24 Mg	45	1	4,193.00	4193.00	ppb	1.44	125000	
27 Al	45	1	5,037.00	5037.00	ppb	1.17	62500	
29 Si	45	1	841.10	841.10	ppb	2.50	12500	
34 S	45	1	2,786.00	2786.00	ppb	1.23	21000	
39 K	45	1	894.10	894.10	ppb	0.94	125000	
44 Ca	45	1	20,980.00	20980.00	ppb	1.25	125000	
47 Ti	45	1	242.00	242.00	ppb	0.78	12500	
51 V	45	1	10.50	10.50	ppb	1.08	12500	
53 Cr	45	1	7.91	7.91	ppb	1.75	12500	
55 Mn	45	1	174.90	174.90	ppb	0.47	12500	
57 Fe	45	1	8,290.00	8290.00	ppb	0.56	65000	
59 Co	89	1	3.37	3.37	ppb	0.74	12500	
60 Ni	89	1	9.52	9.52	ppb	1.30	2500	
63 Cu	89	1	8.05	8.05	ppb	0.35	2500	
66 Zn	89	1	29.50	29.50	ppb	1.44	2500	
75 As	89	1	3.84	3.84	ppb	2.79	12500	
78 Se	89	1	0.63	0.63	ppb	34.05	10000	
90 Zr	89	1	6.63	6.63	ppb	0.58	550	
95 Mo	89	1	1.61	1.61	ppb	2.85	12500	
107 Ag	115	1	0.02	0.02	ppb	6.66	1000	
111 Cd	115	1	0.03	0.03	ppb	22.47	10000	
118 Sn	115	1	0.56	0.56	ppb	10.19	2500	
121 Sb	115	1	0.00	0.00	ppb	568.71	2500	
137 Ba	115	1	33.72	33.72	ppb	0.83	10000	
205 Tl	209	1	-0.22	-0.22	ppb	4.54	12500	
207 Pb	209	1	14.60	14.60	ppb	0.22	12500	
232 Th	209	1	1.30	1.30	ppb	0.82	550	
238 U	209	1	0.44	0.44	ppb	3.23	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	868448	0.90	803890	108.0	60 - 120	
89 Y	1	2800606	0.28	2738325	102.3	60 - 120	
115 In	1	2922767	0.50	2992760	97.7	60 - 120	
209 Bi	1	3700840	1.06	3793264	97.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\065SMPL.D\065SMPL.D#
Date Acquired: Dec 22 2009 07:04 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	81.03	81.03	ppb	1.51	550	
9 Be	45	1	116.50	116.50	ppb	1.28	10000	
11 B	45	1	183.50	183.50	ppb	1.15	550	
23 Na	45	1	2,075.00	2075.00	ppb	0.98	300000	
24 Mg	45	1	2,588.00	2588.00	ppb	0.38	125000	
27 Al	45	1	3,648.00	3648.00	ppb	0.92	62500	
29 Si	45	1	191.30	191.30	ppb	4.36	12500	
34 S	45	1	10,910.00	10910.00	ppb	1.46	21000	
39 K	45	1	4,148.00	4148.00	ppb	1.43	125000	
44 Ca	45	1	2,524.00	2524.00	ppb	1.25	125000	
47 Ti	45	1	197.20	197.20	ppb	1.21	12500	
51 V	45	1	61.21	61.21	ppb	0.97	12500	
53 Cr	45	1	58.63	58.63	ppb	1.07	12500	
55 Mn	45	1	41.36	41.36	ppb	0.71	12500	
57 Fe	45	1	982.70	982.70	ppb	1.57	65000	
59 Co	89	1	65.46	65.46	ppb	0.39	12500	
60 Ni	89	1	62.34	62.34	ppb	0.57	2500	
63 Cu	89	1	63.94	63.94	ppb	0.64	2500	
66 Zn	89	1	63.09	63.09	ppb	0.65	2500	
75 As	89	1	206.20	206.20	ppb	0.27	12500	
78 Se	89	1	99.76	99.76	ppb	0.47	10000	
90 Zr	89	1	168.60	168.60	ppb	0.66	550	
95 Mo	89	1	197.30	197.30	ppb	1.67	12500	
107 Ag	115	1	62.82	62.82	ppb	2.66	1000	
111 Cd	115	1	59.85	59.85	ppb	0.41	10000	
118 Sn	115	1	193.70	193.70	ppb	0.63	2500	
121 Sb	115	1	204.80	204.80	ppb	1.39	2500	
137 Ba	115	1	57.40	57.40	ppb	1.49	10000	
205 Tl	209	1	192.70	192.70	ppb	1.76	12500	
207 Pb	209	1	205.70	205.70	ppb	0.84	12500	
232 Th	209	1	71.38	71.38	ppb	1.01	550	
238 U	209	1	73.28	73.28	ppb	1.13	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	824142	0.59	803890	102.5	60 - 120	
89 Y	1	2669482	0.22	2738325	97.5	60 - 120	
115 In	1	2874762	0.79	2992760	96.1	60 - 120	
209 Bi	1	3570627	1.35	3793264	94.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\066SMPL.D\066SMPL.D#
Date Acquired: Dec 22 2009 07:11 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	-0.05	-0.05	ppb	39.09	550	
9 Be	45	1	0.02	0.02	ppb	180.55	10000	
11 B	45	1	0.90	0.90	ppb	41.26	550	
23 Na	45	1	4.64	4.64	ppb	7.85	300000	
24 Mg	45	1	2.44	2.44	ppb	34.54	125000	
27 Al	45	1	5.22	5.22	ppb	40.02	62500	
29 Si	45	1	16.92	16.92	ppb	62.12	12500	
34 S	45	1	446.90	446.90	ppb	23.79	21000	
39 K	45	1	6.98	6.98	ppb	9.43	125000	
44 Ca	45	1	7.17	7.17	ppb	27.34	125000	
47 Ti	45	1	0.30	0.30	ppb	25.60	12500	
51 V	45	1	0.03	0.03	ppb	27.84	12500	
53 Cr	45	1	0.04	0.04	ppb	79.33	12500	
55 Mn	45	1	0.28	0.28	ppb	23.63	12500	
57 Fe	45	1	7.06	7.06	ppb	42.65	65000	
59 Co	89	1	0.04	0.04	ppb	24.25	12500	
60 Ni	89	1	0.01	0.01	ppb	36.15	2500	
63 Cu	89	1	-0.06	-0.06	ppb	17.12	2500	
66 Zn	89	1	0.03	0.03	ppb	112.61	2500	
75 As	89	1	0.09	0.09	ppb	14.18	12500	
78 Se	89	1	0.04	0.04	ppb	116.63	10000	
90 Zr	89	1	-0.03	-0.03	ppb	72.10	550	
95 Mo	89	1	0.38	0.38	ppb	16.31	12500	
107 Ag	115	1	0.02	0.02	ppb	11.92	1000	
111 Cd	115	1	0.02	0.02	ppb	15.11	10000	
118 Sn	115	1	0.87	0.87	ppb	9.92	2500	
121 Sb	115	1	0.30	0.30	ppb	7.57	2500	
137 Ba	115	1	0.03	0.03	ppb	32.32	10000	
205 Tl	209	1	-0.07	-0.07	ppb	16.29	12500	
207 Pb	209	1	0.26	0.26	ppb	23.33	12500	
232 Th	209	1	0.39	0.39	ppb	10.71	550	
238 U	209	1	0.02	0.02	ppb	18.57	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	790879	0.43	803890	98.4	60 - 120	
89 Y	1	2621572	0.95	2738325	95.7	60 - 120	
115 In	1	2855505	1.87	2992760	95.4	60 - 120	
209 Bi	1	3600795	1.44	3793264	94.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\067SMPL.D\067SMPL.D#
Date Acquired: Dec 22 2009 07:15 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-a-8-d
Misc Info:
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	16.81	16.81	ppb	1.30	550	
9 Be	45	1	1.40	1.40	ppb	9.15	10000	
11 B	45	1	111.80	111.80	ppb	2.39	550	
23 Na	45	1	913.50	913.50	ppb	0.80	300000	
24 Mg	45	1	6,859.00	6859.00	ppb	0.81	125000	
27 Al	45	1	8,574.00	8574.00	ppb	1.01	62500	
29 Si	45	1	778.90	778.90	ppb	2.22	12500	
34 S	45	1	3,563.00	3563.00	ppb	6.20	21000	
39 K	45	1	1,416.00	1416.00	ppb	1.49	125000	
44 Ca	45	1	33,770.00	33770.00	ppb	1.37	125000	
47 Ti	45	1	323.10	323.10	ppb	0.80	12500	
51 V	45	1	29.39	29.39	ppb	0.52	12500	
53 Cr	45	1	29.68	29.68	ppb	1.25	12500	
55 Mn	45	1	293.90	293.90	ppb	1.28	12500	
57 Fe	45	1	42,290.00	42290.00	ppb	0.83	65000	
59 Co	89	1	9.57	9.57	ppb	0.37	12500	
60 Ni	89	1	53.09	53.09	ppb	0.32	2500	
63 Cu	89	1	194.50	194.50	ppb	0.83	2500	
66 Zn	89	1	604.40	604.40	ppb	0.74	2500	
75 As	89	1	443.40	443.40	ppb	0.95	12500	
78 Se	89	1	8.53	8.53	ppb	5.10	10000	
90 Zr	89	1	8.52	8.52	ppb	0.65	550	
95 Mo	89	1	7.72	7.72	ppb	0.58	12500	
107 Ag	115	1	0.31	0.31	ppb	8.12	1000	
111 Cd	115	1	1.45	1.45	ppb	6.10	10000	
118 Sn	115	1	8.42	8.42	ppb	1.05	2500	
121 Sb	115	1	1.65	1.65	ppb	2.37	2500	
137 Ba	115	1	227.30	227.30	ppb	1.01	10000	
205 Tl	209	1	1.97	1.97	ppb	0.71	12500	
207 Pb	209	1	308.10	308.10	ppb	1.79	12500	
232 Th	209	1	2.06	2.06	ppb	1.09	550	
238 U	209	1	0.81	0.81	ppb	0.97	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	850751	0.90	803890	105.8	60 - 120	
89 Y	1	2818043	0.35	2738325	102.9	60 - 120	
115 In	1	2867179	0.50	2992760	95.8	60 - 120	
209 Bi	1	3628620	1.26	3793264	95.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\068SMPL.D\068SMPL.D#
Date Acquired: Dec 22 2009 07:18 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-41-d
Misc Info:
Vial Number: 3302
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.99	12.99	ppb	2.00	550	
9 Be	45	1	0.67	0.67	ppb	4.17	10000	
11 B	45	1	-1.44	-1.44	ppb	28.68	550	
23 Na	45	1	128.50	128.50	ppb	1.33	300000	
24 Mg	45	1	3,806.00	3806.00	ppb	0.77	125000	
27 Al	45	1	14,230.00	14230.00	ppb	0.77	62500	
29 Si	45	1	1,104.00	1104.00	ppb	1.88	12500	
34 S	45	1	243.30	243.30	ppb	41.43	21000	
39 K	45	1	1,440.00	1440.00	ppb	0.48	125000	
44 Ca	45	1	769.10	769.10	ppb	0.91	125000	
47 Ti	45	1	548.10	548.10	ppb	0.21	12500	
51 V	45	1	33.23	33.23	ppb	0.79	12500	
53 Cr	45	1	29.94	29.94	ppb	0.84	12500	
55 Mn	45	1	430.00	430.00	ppb	0.68	12500	
57 Fe	45	1	20,760.00	20760.00	ppb	0.22	65000	
59 Co	89	1	11.85	11.85	ppb	0.57	12500	
60 Ni	89	1	40.68	40.68	ppb	0.33	2500	
63 Cu	89	1	21.24	21.24	ppb	0.38	2500	
66 Zn	89	1	45.72	45.72	ppb	0.51	2500	
75 As	89	1	4.88	4.88	ppb	2.03	12500	
78 Se	89	1	1.09	1.09	ppb	6.70	10000	
90 Zr	89	1	3.67	3.67	ppb	1.18	550	
95 Mo	89	1	0.45	0.45	ppb	0.98	12500	
107 Ag	115	1	0.01	0.01	ppb	51.31	1000	
111 Cd	115	1	0.04	0.04	ppb	33.60	10000	
118 Sn	115	1	0.88	0.88	ppb	5.06	2500	
121 Sb	115	1	-0.01	-0.01	ppb	50.38	2500	
137 Ba	115	1	45.55	45.55	ppb	0.66	10000	
205 Tl	209	1	-0.10	-0.10	ppb	12.56	12500	
207 Pb	209	1	9.50	9.50	ppb	0.87	12500	
232 Th	209	1	4.57	4.57	ppb	1.29	550	
238 U	209	1	1.14	1.14	ppb	1.54	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	850403	0.59	803890	105.8	60 - 120	
89 Y	1	2840634	0.13	2738325	103.7	60 - 120	
115 In	1	2849957	0.32	2992760	95.2	60 - 120	
209 Bi	1	3634036	0.36	3793264	95.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\069SMPL.D\069SMPL.D#
Date Acquired: Dec 22 2009 07:22 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-46-d
Misc Info:
Vial Number: 3303
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	14.99	14.99	ppb	1.03	550	
9 Be	45	1	0.88	0.88	ppb	3.61	10000	
11 B	45	1	12.44	12.44	ppb	7.97	550	
23 Na	45	1	189.10	189.10	ppb	0.30	300000	
24 Mg	45	1	27,080.00	27080.00	ppb	0.87	125000	
27 Al	45	1	15,920.00	15920.00	ppb	0.71	62500	
29 Si	45	1	691.20	691.20	ppb	3.74	12500	
34 S	45	1	277.70	277.70	ppb	62.33	21000	
39 K	45	1	2,092.00	2092.00	ppb	0.50	125000	
44 Ca	45	1	1,726.00	1726.00	ppb	0.34	125000	
47 Ti	45	1	649.60	649.60	ppb	0.45	12500	
51 V	45	1	39.56	39.56	ppb	0.22	12500	
53 Cr	45	1	34.69	34.69	ppb	0.76	12500	
55 Mn	45	1	650.30	650.30	ppb	0.31	12500	
57 Fe	45	1	28,460.00	28460.00	ppb	0.48	65000	
59 Co	89	1	21.70	21.70	ppb	0.30	12500	
60 Ni	89	1	303.50	303.50	ppb	0.84	2500	
63 Cu	89	1	28.99	28.99	ppb	0.39	2500	
66 Zn	89	1	59.23	59.23	ppb	1.04	2500	
75 As	89	1	4.01	4.01	ppb	4.61	12500	
78 Se	89	1	1.72	1.72	ppb	7.85	10000	
90 Zr	89	1	4.31	4.31	ppb	1.92	550	
95 Mo	89	1	0.53	0.53	ppb	2.32	12500	
107 Ag	115	1	0.02	0.02	ppb	60.21	1000	
111 Cd	115	1	0.07	0.07	ppb	10.55	10000	
118 Sn	115	1	0.85	0.85	ppb	2.88	2500	
121 Sb	115	1	-0.02	-0.02	ppb	156.65	2500	
137 Ba	115	1	94.94	94.94	ppb	0.22	10000	
205 Tl	209	1	-0.10	-0.10	ppb	17.72	12500	
207 Pb	209	1	12.52	12.52	ppb	1.28	12500	
232 Th	209	1	6.20	6.20	ppb	0.88	550	
238 U	209	1	1.13	1.13	ppb	2.16	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	855018	0.35	803890	106.4	60 - 120	
89 Y	1	2879958	0.51	2738325	105.2	60 - 120	
115 In	1	2772244	1.20	2992760	92.6	60 - 120	
209 Bi	1	3479913	0.68	3793264	91.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\070SMPL.D\070SMPL.D#
Date Acquired: Dec 22 2009 07:25 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-51-d
Misc Info:
Vial Number: 3304
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.19	12.19	ppb	0.25	550	
9 Be	45	1	0.61	0.61	ppb	8.22	10000	
11 B	45	1	-0.75	-0.75	ppb	133.10	550	
23 Na	45	1	138.70	138.70	ppb	0.66	300000	
24 Mg	45	1	3,422.00	3422.00	ppb	1.29	125000	
27 Al	45	1	10,460.00	10460.00	ppb	0.58	62500	
29 Si	45	1	721.30	721.30	ppb	0.76	12500	
34 S	45	1	313.60	313.60	ppb	39.61	21000	
39 K	45	1	1,505.00	1505.00	ppb	1.01	125000	
44 Ca	45	1	3,405.00	3405.00	ppb	0.92	125000	
47 Ti	45	1	463.00	463.00	ppb	0.85	12500	
51 V	45	1	27.71	27.71	ppb	0.69	12500	
53 Cr	45	1	22.01	22.01	ppb	1.15	12500	
55 Mn	45	1	351.10	351.10	ppb	0.87	12500	
57 Fe	45	1	16,390.00	16390.00	ppb	0.86	65000	
59 Co	89	1	7.61	7.61	ppb	0.76	12500	
60 Ni	89	1	26.19	26.19	ppb	1.40	2500	
63 Cu	89	1	18.03	18.03	ppb	0.82	2500	
66 Zn	89	1	44.74	44.74	ppb	0.33	2500	
75 As	89	1	3.00	3.00	ppb	1.66	12500	
78 Se	89	1	1.25	1.25	ppb	20.12	10000	
90 Zr	89	1	3.44	3.44	ppb	1.41	550	
95 Mo	89	1	0.56	0.56	ppb	7.76	12500	
107 Ag	115	1	0.01	0.01	ppb	59.92	1000	
111 Cd	115	1	0.05	0.05	ppb	11.43	10000	
118 Sn	115	1	0.73	0.73	ppb	13.52	2500	
121 Sb	115	1	-0.02	-0.02	ppb	35.88	2500	
137 Ba	115	1	49.25	49.25	ppb	0.23	10000	
205 Tl	209	1	-0.17	-0.17	ppb	5.64	12500	
207 Pb	209	1	12.50	12.50	ppb	1.55	12500	
232 Th	209	1	4.55	4.55	ppb	0.41	550	
238 U	209	1	0.81	0.81	ppb	1.64	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	850154	0.95	803890	105.8	60 - 120	
89 Y	1	2812317	0.55	2738325	102.7	60 - 120	
115 In	1	2844554	0.28	2992760	95.0	60 - 120	
209 Bi	1	3607825	0.62	3793264	95.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\071SMPL.D\071SMPL.D#
Date Acquired: Dec 22 2009 07:29 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-56-d
Misc Info:
Vial Number: 3305
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.25	12.25	ppb	0.42	550	
9 Be	45	1	0.55	0.55	ppb	26.01	10000	
11 B	45	1	-1.68	-1.68	ppb	64.98	550	
23 Na	45	1	124.00	124.00	ppb	0.89	300000	
24 Mg	45	1	3,843.00	3843.00	ppb	0.91	125000	
27 Al	45	1	12,100.00	12100.00	ppb	0.71	62500	
29 Si	45	1	575.00	575.00	ppb	3.53	12500	
34 S	45	1	227.90	227.90	ppb	37.21	21000	
39 K	45	1	1,788.00	1788.00	ppb	1.42	125000	
44 Ca	45	1	2,106.00	2106.00	ppb	0.85	125000	
47 Ti	45	1	533.40	533.40	ppb	1.60	12500	
51 V	45	1	31.56	31.56	ppb	1.31	12500	
53 Cr	45	1	24.10	24.10	ppb	3.29	12500	
55 Mn	45	1	328.20	328.20	ppb	1.63	12500	
57 Fe	45	1	17,410.00	17410.00	ppb	1.45	65000	
59 Co	89	1	8.07	8.07	ppb	1.01	12500	
60 Ni	89	1	34.34	34.34	ppb	0.75	2500	
63 Cu	89	1	19.34	19.34	ppb	1.65	2500	
66 Zn	89	1	47.57	47.57	ppb	0.62	2500	
75 As	89	1	3.47	3.47	ppb	2.83	12500	
78 Se	89	1	1.57	1.57	ppb	9.79	10000	
90 Zr	89	1	4.33	4.33	ppb	1.58	550	
95 Mo	89	1	0.33	0.33	ppb	7.68	12500	
107 Ag	115	1	0.02	0.02	ppb	32.08	1000	
111 Cd	115	1	0.07	0.07	ppb	17.52	10000	
118 Sn	115	1	0.61	0.61	ppb	4.38	2500	
121 Sb	115	1	-0.05	-0.05	ppb	11.98	2500	
137 Ba	115	1	47.77	47.77	ppb	0.49	10000	
205 Tl	209	1	-0.15	-0.15	ppb	3.71	12500	
207 Pb	209	1	10.94	10.94	ppb	1.12	12500	
232 Th	209	1	5.09	5.09	ppb	0.59	550	
238 U	209	1	0.99	0.99	ppb	0.65	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	833402	0.97	803890	103.7	60 - 120	
89 Y	1	2820260	0.84	2738325	103.0	60 - 120	
115 In	1	2828882	0.96	2992760	94.5	60 - 120	
209 Bi	1	3649081	0.65	3793264	96.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\072SMPL.D\072SMPL.D#
Date Acquired: Dec 22 2009 07:32 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-61-d
Misc Info:
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.17	10.17	ppb	7.30	550	
9 Be	45	1	0.32	0.32	ppb	21.32	10000	
11 B	45	1	-3.14	-3.14	ppb	18.03	550	
23 Na	45	1	184.50	184.50	ppb	0.05	300000	
24 Mg	45	1	3,989.00	3989.00	ppb	0.89	125000	
27 Al	45	1	9,623.00	9623.00	ppb	0.27	62500	
29 Si	45	1	635.60	635.60	ppb	0.80	12500	
34 S	45	1	150.60	150.60	ppb	37.13	21000	
39 K	45	1	1,489.00	1489.00	ppb	0.26	125000	
44 Ca	45	1	1,671.00	1671.00	ppb	0.62	125000	
47 Ti	45	1	444.90	444.90	ppb	0.51	12500	
51 V	45	1	26.04	26.04	ppb	0.41	12500	
53 Cr	45	1	20.79	20.79	ppb	1.11	12500	
55 Mn	45	1	321.70	321.70	ppb	0.32	12500	
57 Fe	45	1	15,540.00	15540.00	ppb	0.90	65000	
59 Co	89	1	8.40	8.40	ppb	1.07	12500	
60 Ni	89	1	34.56	34.56	ppb	1.79	2500	
63 Cu	89	1	17.84	17.84	ppb	1.29	2500	
66 Zn	89	1	37.36	37.36	ppb	0.95	2500	
75 As	89	1	2.66	2.66	ppb	5.10	12500	
78 Se	89	1	1.07	1.07	ppb	19.76	10000	
90 Zr	89	1	3.24	3.24	ppb	1.60	550	
95 Mo	89	1	0.50	0.50	ppb	0.49	12500	
107 Ag	115	1	0.01	0.01	ppb	23.50	1000	
111 Cd	115	1	0.05	0.05	ppb	13.41	10000	
118 Sn	115	1	0.52	0.52	ppb	8.58	2500	
121 Sb	115	1	-0.06	-0.06	ppb	7.09	2500	
137 Ba	115	1	42.71	42.71	ppb	0.91	10000	
205 Tl	209	1	-0.19	-0.19	ppb	6.31	12500	
207 Pb	209	1	9.84	9.84	ppb	0.72	12500	
232 Th	209	1	5.00	5.00	ppb	0.89	550	
238 U	209	1	0.80	0.80	ppb	0.70	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	813925	0.09	803890	101.2	60 - 120	
89 Y	1	2801782	0.59	2738325	102.3	60 - 120	
115 In	1	2816221	0.75	2992760	94.1	60 - 120	
209 Bi	1	3650321	0.89	3793264	96.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\073SMPL.D\073SMPL.D#
Date Acquired: Dec 22 2009 07:36 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-66-d
Misc Info:
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	9.96	9.96	ppb	7.20	550	
9 Be	45	1	0.36	0.36	ppb	21.95	10000	
11 B	45	1	-1.69	-1.69	ppb	27.08	550	
23 Na	45	1	96.08	96.08	ppb	0.96	300000	
24 Mg	45	1	2,733.00	2733.00	ppb	1.29	125000	
27 Al	45	1	8,427.00	8427.00	ppb	1.06	62500	
29 Si	45	1	1,236.00	1236.00	ppb	2.06	12500	
34 S	45	1	329.10	329.10	ppb	30.38	21000	
39 K	45	1	1,026.00	1026.00	ppb	1.96	125000	
44 Ca	45	1	5,906.00	5906.00	ppb	1.49	125000	
47 Ti	45	1	341.10	341.10	ppb	0.63	12500	
51 V	45	1	20.73	20.73	ppb	0.66	12500	
53 Cr	45	1	14.73	14.73	ppb	1.67	12500	
55 Mn	45	1	253.40	253.40	ppb	0.88	12500	
57 Fe	45	1	13,000.00	13000.00	ppb	0.71	65000	
59 Co	89	1	6.43	6.43	ppb	0.80	12500	
60 Ni	89	1	25.31	25.31	ppb	1.19	2500	
63 Cu	89	1	15.65	15.65	ppb	0.56	2500	
66 Zn	89	1	32.22	32.22	ppb	1.09	2500	
75 As	89	1	2.92	2.92	ppb	4.93	12500	
78 Se	89	1	0.82	0.82	ppb	35.60	10000	
90 Zr	89	1	3.47	3.47	ppb	2.96	550	
95 Mo	89	1	0.23	0.23	ppb	10.64	12500	
107 Ag	115	1	0.01	0.01	ppb	12.75	1000	
111 Cd	115	1	0.04	0.04	ppb	43.41	10000	
118 Sn	115	1	0.95	0.95	ppb	1.90	2500	
121 Sb	115	1	-0.02	-0.02	ppb	20.78	2500	
137 Ba	115	1	34.49	34.49	ppb	0.61	10000	
205 Tl	209	1	-0.21	-0.21	ppb	1.88	12500	
207 Pb	209	1	13.15	13.15	ppb	3.08	12500	
232 Th	209	1	3.34	3.34	ppb	1.56	550	
238 U	209	1	0.66	0.66	ppb	3.63	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	812593	1.08	803890	101.1	60 - 120	
89 Y	1	2728879	1.08	2738325	99.7	60 - 120	
115 In	1	2841008	0.79	2992760	94.9	60 - 120	
209 Bi	1	3701042	2.99	3793264	97.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\074SMPL.D\074SMPL.D#
Date Acquired: Dec 22 2009 07:39 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-71-d
Misc Info:
Vial Number: 3308
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.47	12.47	ppb	1.66	550	
9 Be	45	1	0.57	0.57	ppb	3.70	10000	
11 B	45	1	-4.04	-4.04	ppb	17.74	550	
23 Na	45	1	175.00	175.00	ppb	1.78	300000	
24 Mg	45	1	3,117.00	3117.00	ppb	0.38	125000	
27 Al	45	1	12,490.00	12490.00	ppb	1.00	62500	
29 Si	45	1	744.00	744.00	ppb	2.59	12500	
34 S	45	1	165.80	165.80	ppb	46.93	21000	
39 K	45	1	1,122.00	1122.00	ppb	0.93	125000	
44 Ca	45	1	1,749.00	1749.00	ppb	1.56	125000	
47 Ti	45	1	389.60	389.60	ppb	2.60	12500	
51 V	45	1	29.47	29.47	ppb	1.54	12500	
53 Cr	45	1	20.62	20.62	ppb	2.35	12500	
55 Mn	45	1	453.30	453.30	ppb	1.41	12500	
57 Fe	45	1	17,270.00	17270.00	ppb	0.64	65000	
59 Co	89	1	8.01	8.01	ppb	1.34	12500	
60 Ni	89	1	27.28	27.28	ppb	0.81	2500	
63 Cu	89	1	18.56	18.56	ppb	0.51	2500	
66 Zn	89	1	38.39	38.39	ppb	1.13	2500	
75 As	89	1	3.70	3.70	ppb	2.37	12500	
78 Se	89	1	1.71	1.71	ppb	5.25	10000	
90 Zr	89	1	3.01	3.01	ppb	3.22	550	
95 Mo	89	1	0.38	0.38	ppb	6.10	12500	
107 Ag	115	1	0.05	0.05	ppb	31.26	1000	
111 Cd	115	1	0.06	0.06	ppb	13.96	10000	
118 Sn	115	1	0.65	0.65	ppb	4.10	2500	
121 Sb	115	1	-0.06	-0.06	ppb	31.32	2500	
137 Ba	115	1	57.38	57.38	ppb	2.10	10000	
205 Tl	209	1	-0.18	-0.18	ppb	6.92	12500	
207 Pb	209	1	35.12	35.12	ppb	1.48	12500	
232 Th	209	1	4.47	4.47	ppb	0.98	550	
238 U	209	1	0.97	0.97	ppb	2.05	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	812549	1.18	803890	101.1	60 - 120	
89 Y	1	2816194	0.66	2738325	102.8	60 - 120	
115 In	1	2827938	1.04	2992760	94.5	60 - 120	
209 Bi	1	3653675	0.68	3793264	96.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\075SMPL.D\075SMPL.D#
Date Acquired: Dec 22 2009 07:43 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-76-d
Misc Info:
Vial Number: 3309
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	17.97	17.97	ppb	3.85	550	
9 Be	45	1	0.75	0.75	ppb	9.50	10000	
11 B	45	1	-2.02	-2.02	ppb	100.94	550	
23 Na	45	1	188.30	188.30	ppb	1.50	300000	
24 Mg	45	1	4,989.00	4989.00	ppb	0.60	125000	
27 Al	45	1	18,560.00	18560.00	ppb	0.64	62500	
29 Si	45	1	932.60	932.60	ppb	1.75	12500	
34 S	45	1	199.90	199.90	ppb	3.79	21000	
39 K	45	1	2,016.00	2016.00	ppb	1.45	125000	
44 Ca	45	1	1,658.00	1658.00	ppb	0.94	125000	
47 Ti	45	1	900.20	900.20	ppb	0.32	12500	
51 V	45	1	50.53	50.53	ppb	1.10	12500	
53 Cr	45	1	43.53	43.53	ppb	2.35	12500	
55 Mn	45	1	352.10	352.10	ppb	0.58	12500	
57 Fe	45	1	26,510.00	26510.00	ppb	1.15	65000	
59 Co	89	1	9.93	9.93	ppb	0.59	12500	
60 Ni	89	1	30.42	30.42	ppb	0.69	2500	
63 Cu	89	1	29.07	29.07	ppb	0.51	2500	
66 Zn	89	1	90.02	90.02	ppb	0.57	2500	
75 As	89	1	4.42	4.42	ppb	3.25	12500	
78 Se	89	1	1.80	1.80	ppb	6.86	10000	
90 Zr	89	1	3.79	3.79	ppb	0.41	550	
95 Mo	89	1	0.66	0.66	ppb	6.52	12500	
107 Ag	115	1	0.02	0.02	ppb	16.25	1000	
111 Cd	115	1	0.11	0.11	ppb	7.70	10000	
118 Sn	115	1	0.61	0.61	ppb	4.76	2500	
121 Sb	115	1	-0.08	-0.08	ppb	13.05	2500	
137 Ba	115	1	79.54	79.54	ppb	0.70	10000	
205 Tl	209	1	-0.08	-0.08	ppb	20.69	12500	
207 Pb	209	1	10.95	10.95	ppb	1.88	12500	
232 Th	209	1	6.59	6.59	ppb	1.57	550	
238 U	209	1	1.47	1.47	ppb	0.68	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	824079	0.67	803890	102.5	60 - 120	
89 Y	1	2745317	0.52	2738325	100.3	60 - 120	
115 In	1	2791600	0.70	2992760	93.3	60 - 120	
209 Bi	1	3605498	0.60	3793264	95.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\076SMPL.D\076SMPL.D#
Date Acquired: Dec 22 2009 07:46 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-81-d
Misc Info:
Vial Number: 3310
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.13	13.13	ppb	0.43	550	
9 Be	45	1	0.57	0.57	ppb	26.79	10000	
11 B	45	1	-1.13	-1.13	ppb	68.48	550	
23 Na	45	1	232.50	232.50	ppb	0.99	300000	
24 Mg	45	1	3,500.00	3500.00	ppb	1.52	125000	
27 Al	45	1	10,060.00	10060.00	ppb	1.16	62500	
29 Si	45	1	856.10	856.10	ppb	0.98	12500	
34 S	45	1	299.20	299.20	ppb	20.07	21000	
39 K	45	1	1,571.00	1571.00	ppb	0.94	125000	
44 Ca	45	1	3,310.00	3310.00	ppb	2.11	125000	
47 Ti	45	1	440.20	440.20	ppb	1.72	12500	
51 V	45	1	25.76	25.76	ppb	1.41	12500	
53 Cr	45	1	20.52	20.52	ppb	1.51	12500	
55 Mn	45	1	387.40	387.40	ppb	0.75	12500	
57 Fe	45	1	16,810.00	16810.00	ppb	1.24	65000	
59 Co	89	1	8.60	8.60	ppb	0.77	12500	
60 Ni	89	1	31.27	31.27	ppb	0.55	2500	
63 Cu	89	1	25.61	25.61	ppb	0.38	2500	
66 Zn	89	1	42.11	42.11	ppb	0.21	2500	
75 As	89	1	2.71	2.71	ppb	5.03	12500	
78 Se	89	1	0.90	0.90	ppb	24.26	10000	
90 Zr	89	1	3.63	3.63	ppb	2.57	550	
95 Mo	89	1	0.51	0.51	ppb	5.59	12500	
107 Ag	115	1	0.02	0.02	ppb	28.10	1000	
111 Cd	115	1	0.06	0.06	ppb	14.85	10000	
118 Sn	115	1	0.44	0.44	ppb	9.00	2500	
121 Sb	115	1	-0.09	-0.09	ppb	5.89	2500	
137 Ba	115	1	45.08	45.08	ppb	0.38	10000	
205 Tl	209	1	-0.19	-0.19	ppb	0.90	12500	
207 Pb	209	1	10.42	10.42	ppb	0.53	12500	
232 Th	209	1	4.49	4.49	ppb	0.58	550	
238 U	209	1	0.84	0.84	ppb	0.55	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	803358	1.79	803890	99.9	60 - 120	
89 Y	1	2750416	0.53	2738325	100.4	60 - 120	
115 In	1	2779478	0.94	2992760	92.9	60 - 120	
209 Bi	1	3632724	0.57	3793264	95.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\077SMPL.D\077SMPL.D#
Date Acquired: Dec 22 2009 07:50 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3311
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	83.71	83.71	ppb	2.40	550	
9 Be	45	1	119.10	119.10	ppb	0.29	10000	
11 B	45	1	188.50	188.50	ppb	0.86	550	
23 Na	45	1	2,102.00	2102.00	ppb	0.39	300000	
24 Mg	45	1	2,659.00	2659.00	ppb	0.06	125000	
27 Al	45	1	3,765.00	3765.00	ppb	0.53	62500	
29 Si	45	1	191.40	191.40	ppb	6.58	12500	
34 S	45	1	11,050.00	11050.00	ppb	0.52	21000	
39 K	45	1	4,226.00	4226.00	ppb	0.80	125000	
44 Ca	45	1	2,559.00	2559.00	ppb	1.27	125000	
47 Ti	45	1	198.80	198.80	ppb	0.94	12500	
51 V	45	1	62.70	62.70	ppb	0.37	12500	
53 Cr	45	1	59.43	59.43	ppb	0.33	12500	
55 Mn	45	1	42.22	42.22	ppb	0.36	12500	
57 Fe	45	1	1,018.00	1018.00	ppb	1.37	65000	
59 Co	89	1	63.97	63.97	ppb	1.10	12500	
60 Ni	89	1	61.78	61.78	ppb	0.41	2500	
63 Cu	89	1	62.93	62.93	ppb	0.67	2500	
66 Zn	89	1	61.70	61.70	ppb	0.24	2500	
75 As	89	1	204.20	204.20	ppb	0.81	12500	
78 Se	89	1	101.10	101.10	ppb	2.16	10000	
90 Zr	89	1	166.40	166.40	ppb	0.97	550	
95 Mo	89	1	197.50	197.50	ppb	1.34	12500	
107 Ag	115	1	63.69	63.69	ppb	1.13	1000	
111 Cd	115	1	59.80	59.80	ppb	0.04	10000	
118 Sn	115	1	192.70	192.70	ppb	0.70	2500	
121 Sb	115	1	204.40	204.40	ppb	0.85	2500	
137 Ba	115	1	57.69	57.69	ppb	1.54	10000	
205 Tl	209	1	191.00	191.00	ppb	0.76	12500	
207 Pb	209	1	205.90	205.90	ppb	1.55	12500	
232 Th	209	1	72.83	72.83	ppb	1.50	550	
238 U	209	1	74.57	74.57	ppb	0.87	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	754111	0.16	803890	93.8	60 - 120	
89 Y	1	2535546	0.32	2738325	92.6	60 - 120	
115 In	1	2743055	0.50	2992760	91.7	60 - 120	
209 Bi	1	3508770	0.30	3793264	92.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\078SMPL.D\078SMPL.D#
Date Acquired: Dec 22 2009 07:56 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3312
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.01	0.01	ppb	733.46	550	
9 Be	45	1	0.02	0.02	ppb	170.35	10000	
11 B	45	1	-0.70	-0.70	ppb	72.48	550	
23 Na	45	1	3.16	3.16	ppb	12.58	300000	
24 Mg	45	1	3.94	3.94	ppb	22.21	125000	
27 Al	45	1	8.11	8.11	ppb	20.77	62500	
29 Si	45	1	13.56	13.56	ppb	3.81	12500	
34 S	45	1	318.10	318.10	ppb	43.23	21000	
39 K	45	1	9.20	9.20	ppb	16.28	125000	
44 Ca	45	1	6.98	6.98	ppb	19.33	125000	
47 Ti	45	1	0.42	0.42	ppb	15.01	12500	
51 V	45	1	0.05	0.05	ppb	10.64	12500	
53 Cr	45	1	0.07	0.07	ppb	34.06	12500	
55 Mn	45	1	0.34	0.34	ppb	14.99	12500	
57 Fe	45	1	11.69	11.69	ppb	21.24	65000	
59 Co	89	1	0.04	0.04	ppb	24.54	12500	
60 Ni	89	1	0.01	0.01	ppb	118.73	2500	
63 Cu	89	1	-0.09	-0.09	ppb	2.65	2500	
66 Zn	89	1	-0.11	-0.11	ppb	30.29	2500	
75 As	89	1	0.13	0.13	ppb	6.97	12500	
78 Se	89	1	-0.12	-0.12	ppb	60.93	10000	
90 Zr	89	1	-0.01	-0.01	ppb	43.63	550	
95 Mo	89	1	0.48	0.48	ppb	19.36	12500	
107 Ag	115	1	0.02	0.02	ppb	15.00	1000	
111 Cd	115	1	0.02	0.02	ppb	58.90	10000	
118 Sn	115	1	1.06	1.06	ppb	12.74	2500	
121 Sb	115	1	0.42	0.42	ppb	3.58	2500	
137 Ba	115	1	0.06	0.06	ppb	31.31	10000	
205 Tl	209	1	-0.09	-0.09	ppb	7.66	12500	
207 Pb	209	1	0.25	0.25	ppb	9.46	12500	
232 Th	209	1	0.37	0.37	ppb	8.64	550	
238 U	209	1	0.02	0.02	ppb	10.00	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	743056	1.21	803890	92.4	60 - 120	
89 Y	1	2503096	0.58	2738325	91.4	60 - 120	
115 In	1	2756734	1.51	2992760	92.1	60 - 120	
209 Bi	1	3576656	1.25	3793264	94.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\079SMPL.D\079SMPL.D#
Date Acquired: Dec 22 2009 08:00 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-86-d
Misc Info:
Vial Number: 3401
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.86	13.86	ppb	2.81	550	
9 Be	45	1	0.27	0.27	ppb	19.65	10000	
11 B	45	1	-0.37	-0.37	ppb	461.72	550	
23 Na	45	1	458.90	458.90	ppb	0.82	300000	
24 Mg	45	1	8,665.00	8665.00	ppb	0.15	125000	
27 Al	45	1	7,992.00	7992.00	ppb	0.77	62500	
29 Si	45	1	815.00	815.00	ppb	2.40	12500	
34 S	45	1	259.00	259.00	ppb	18.35	21000	
39 K	45	1	3,883.00	3883.00	ppb	0.89	125000	
44 Ca	45	1	2,936.00	2936.00	ppb	0.65	125000	
47 Ti	45	1	761.60	761.60	ppb	0.83	12500	
51 V	45	1	30.58	30.58	ppb	0.67	12500	
53 Cr	45	1	24.57	24.57	ppb	0.31	12500	
55 Mn	45	1	277.10	277.10	ppb	1.20	12500	
57 Fe	45	1	15,040.00	15040.00	ppb	0.32	65000	
59 Co	89	1	9.94	9.94	ppb	1.88	12500	
60 Ni	89	1	60.02	60.02	ppb	0.89	2500	
63 Cu	89	1	22.21	22.21	ppb	1.32	2500	
66 Zn	89	1	42.80	42.80	ppb	1.41	2500	
75 As	89	1	3.42	3.42	ppb	2.11	12500	
78 Se	89	1	0.63	0.63	ppb	42.50	10000	
90 Zr	89	1	2.66	2.66	ppb	0.22	550	
95 Mo	89	1	1.04	1.04	ppb	5.71	12500	
107 Ag	115	1	0.02	0.02	ppb	33.50	1000	
111 Cd	115	1	0.06	0.06	ppb	19.72	10000	
118 Sn	115	1	1.32	1.32	ppb	6.39	2500	
121 Sb	115	1	0.05	0.05	ppb	54.02	2500	
137 Ba	115	1	86.40	86.40	ppb	0.93	10000	
205 Tl	209	1	-0.12	-0.12	ppb	10.61	12500	
207 Pb	209	1	6.71	6.71	ppb	1.39	12500	
232 Th	209	1	4.34	4.34	ppb	2.90	550	
238 U	209	1	1.01	1.01	ppb	1.06	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	800227	0.77	803890	99.5	60 - 120	
89 Y	1	2709415	1.15	2738325	98.9	60 - 120	
115 In	1	2773324	0.13	2992760	92.7	60 - 120	
209 Bi	1	3638837	1.02	3793264	95.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\080SMPL.D\080SMPL.D#
Date Acquired: Dec 22 2009 08:03 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-91-d
Misc Info:
Vial Number: 3402
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	8.80	8.80	ppb	8.53	550	
9 Be	45	1	0.44	0.44	ppb	11.33	10000	
11 B	45	1	0.60	0.60	ppb	24.23	550	
23 Na	45	1	110.50	110.50	ppb	1.84	300000	
24 Mg	45	1	2,801.00	2801.00	ppb	0.72	125000	
27 Al	45	1	8,964.00	8964.00	ppb	0.65	62500	
29 Si	45	1	1,894.00	1894.00	ppb	1.13	12500	
34 S	45	1	640.90	640.90	ppb	8.54	21000	
39 K	45	1	975.80	975.80	ppb	1.17	125000	
44 Ca	45	1	11,690.00	11690.00	ppb	0.16	125000	
47 Ti	45	1	347.70	347.70	ppb	1.25	12500	
51 V	45	1	20.04	20.04	ppb	0.45	12500	
53 Cr	45	1	14.03	14.03	ppb	0.55	12500	
55 Mn	45	1	248.80	248.80	ppb	0.35	12500	
57 Fe	45	1	12,510.00	12510.00	ppb	0.58	65000	
59 Co	89	1	5.82	5.82	ppb	0.80	12500	
60 Ni	89	1	20.70	20.70	ppb	0.14	2500	
63 Cu	89	1	16.15	16.15	ppb	0.16	2500	
66 Zn	89	1	48.41	48.41	ppb	0.61	2500	
75 As	89	1	2.73	2.73	ppb	2.34	12500	
78 Se	89	1	0.93	0.93	ppb	10.60	10000	
90 Zr	89	1	4.02	4.02	ppb	1.72	550	
95 Mo	89	1	0.31	0.31	ppb	6.30	12500	
107 Ag	115	1	0.02	0.02	ppb	27.66	1000	
111 Cd	115	1	0.05	0.05	ppb	17.70	10000	
118 Sn	115	1	1.47	1.47	ppb	4.19	2500	
121 Sb	115	1	0.04	0.04	ppb	43.26	2500	
137 Ba	115	1	38.62	38.62	ppb	0.34	10000	
205 Tl	209	1	-0.20	-0.20	ppb	6.23	12500	
207 Pb	209	1	14.66	14.66	ppb	0.99	12500	
232 Th	209	1	3.60	3.60	ppb	0.30	550	
238 U	209	1	0.65	0.65	ppb	2.46	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	800039	0.19	803890	99.5	60 - 120	
89 Y	1	2728202	0.27	2738325	99.6	60 - 120	
115 In	1	2831064	1.04	2992760	94.6	60 - 120	
209 Bi	1	3664197	0.72	3793264	96.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\081SMPL.D\081SMPL.D#
Date Acquired: Dec 22 2009 08:07 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-4-c
Misc Info:
Vial Number: 3403
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.67	0.67	ppb	12.23	550	
9 Be	45	1	0.05	0.05	ppb	125.34	10000	
11 B	45	1	5.65	5.65	ppb	11.93	550	
23 Na	45	1	2,243.00	2243.00	ppb	1.45	300000	
24 Mg	45	1	128.30	128.30	ppb	3.54	125000	
27 Al	45	1	476.30	476.30	ppb	2.59	62500	
29 Si	45	1	574.20	574.20	ppb	3.42	12500	
34 S	45	1	658.70	658.70	ppb	27.57	21000	
39 K	45	1	118.60	118.60	ppb	4.95	125000	
44 Ca	45	1	373.60	373.60	ppb	3.39	125000	
47 Ti	45	1	9.69	9.69	ppb	7.23	12500	
51 V	45	1	4.25	4.25	ppb	1.93	12500	
53 Cr	45	1	0.85	0.85	ppb	7.47	12500	
55 Mn	45	1	21.02	21.02	ppb	2.22	12500	
57 Fe	45	1	635.10	635.10	ppb	2.72	65000	
59 Co	89	1	0.15	0.15	ppb	9.08	12500	
60 Ni	89	1	0.49	0.49	ppb	2.53	2500	
63 Cu	89	1	1.93	1.93	ppb	0.97	2500	
66 Zn	89	1	2.05	2.05	ppb	3.27	2500	
75 As	89	1	0.40	0.40	ppb	21.43	12500	
78 Se	89	1	0.13	0.13	ppb	104.77	10000	
90 Zr	89	1	0.99	0.99	ppb	10.24	550	
95 Mo	89	1	0.26	0.26	ppb	6.58	12500	
107 Ag	115	1	0.04	0.04	ppb	20.89	1000	
111 Cd	115	1	0.00	0.00	ppb	117.14	10000	
118 Sn	115	1	-0.01	-0.01	ppb	832.42	2500	
121 Sb	115	1	-0.05	-0.05	ppb	56.11	2500	
137 Ba	115	1	4.70	4.70	ppb	0.51	10000	
205 Tl	209	1	-0.29	-0.29	ppb	4.82	12500	
207 Pb	209	1	0.47	0.47	ppb	13.24	12500	
232 Th	209	1	0.16	0.16	ppb	9.51	550	
238 U	209	1	0.01	0.01	ppb	69.62	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	773114	1.40	803890	96.2	60 - 120	
89 Y	1	2601844	0.31	2738325	95.0	60 - 120	
115 In	1	2815070	0.49	2992760	94.1	60 - 120	
209 Bi	1	3652883	1.11	3793264	96.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\082SMPL.D\082SMPL.D#
Date Acquired: Dec 22 2009 08:10 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-5-c
Misc Info:
Vial Number: 3404
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.73	0.73	ppb	1.94	550	
9 Be	45	1	0.03	0.03	ppb	114.77	10000	
11 B	45	1	10.65	10.65	ppb	16.41	550	
23 Na	45	1	3,502.00	3502.00	ppb	1.05	300000	
24 Mg	45	1	216.30	216.30	ppb	0.96	125000	
27 Al	45	1	667.10	667.10	ppb	1.04	62500	
29 Si	45	1	663.50	663.50	ppb	1.51	12500	
34 S	45	1	654.40	654.40	ppb	16.78	21000	
39 K	45	1	211.10	211.10	ppb	1.90	125000	
44 Ca	45	1	1,403.00	1403.00	ppb	1.55	125000	
47 Ti	45	1	14.80	14.80	ppb	2.77	12500	
51 V	45	1	3.15	3.15	ppb	1.31	12500	
53 Cr	45	1	1.22	1.22	ppb	3.79	12500	
55 Mn	45	1	12.28	12.28	ppb	1.38	12500	
57 Fe	45	1	412.00	412.00	ppb	0.77	65000	
59 Co	89	1	0.11	0.11	ppb	2.32	12500	
60 Ni	89	1	0.48	0.48	ppb	1.79	2500	
63 Cu	89	1	1.24	1.24	ppb	2.53	2500	
66 Zn	89	1	2.41	2.41	ppb	4.97	2500	
75 As	89	1	0.38	0.38	ppb	4.72	12500	
78 Se	89	1	-0.09	-0.09	ppb	333.03	10000	
90 Zr	89	1	0.70	0.70	ppb	5.73	550	
95 Mo	89	1	0.14	0.14	ppb	7.58	12500	
107 Ag	115	1	0.06	0.06	ppb	3.28	1000	
111 Cd	115	1	0.01	0.01	ppb	127.52	10000	
118 Sn	115	1	-0.02	-0.02	ppb	246.33	2500	
121 Sb	115	1	-0.07	-0.07	ppb	2.83	2500	
137 Ba	115	1	2.80	2.80	ppb	3.54	10000	
205 Tl	209	1	-0.29	-0.29	ppb	2.25	12500	
207 Pb	209	1	0.85	0.85	ppb	3.62	12500	
232 Th	209	1	0.03	0.03	ppb	30.05	550	
238 U	209	1	0.03	0.03	ppb	6.39	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	786475	0.87	803890	97.8	60 - 120	
89 Y	1	2630379	1.09	2738325	96.1	60 - 120	
115 In	1	2834757	1.23	2992760	94.7	60 - 120	
209 Bi	1	3695344	0.42	3793264	97.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\083SMPL.D\083SMPL.D#
Date Acquired: Dec 22 2009 08:14 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-6-c
Misc Info:
Vial Number: 3405
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.75	0.75	ppb	15.75	550	
9 Be	45	1	0.00	0.00	ppb	1349.10	10000	
11 B	45	1	4.79	4.79	ppb	22.37	550	
23 Na	45	1	2,819.00	2819.00	ppb	1.65	300000	
24 Mg	45	1	145.80	145.80	ppb	4.18	125000	
27 Al	45	1	309.30	309.30	ppb	5.42	62500	
29 Si	45	1	717.20	717.20	ppb	0.75	12500	
34 S	45	1	747.30	747.30	ppb	17.78	21000	
39 K	45	1	315.20	315.20	ppb	3.01	125000	
44 Ca	45	1	2,696.00	2696.00	ppb	1.86	125000	
47 Ti	45	1	6.45	6.45	ppb	1.59	12500	
51 V	45	1	4.63	4.63	ppb	1.14	12500	
53 Cr	45	1	0.95	0.95	ppb	7.90	12500	
55 Mn	45	1	6.55	6.55	ppb	5.14	12500	
57 Fe	45	1	166.60	166.60	ppb	8.51	65000	
59 Co	89	1	0.06	0.06	ppb	14.08	12500	
60 Ni	89	1	0.26	0.26	ppb	11.62	2500	
63 Cu	89	1	0.77	0.77	ppb	1.17	2500	
66 Zn	89	1	1.71	1.71	ppb	8.42	2500	
75 As	89	1	2.57	2.57	ppb	3.14	12500	
78 Se	89	1	0.09	0.09	ppb	236.00	10000	
90 Zr	89	1	0.39	0.39	ppb	10.39	550	
95 Mo	89	1	0.10	0.10	ppb	12.15	12500	
107 Ag	115	1	0.05	0.05	ppb	3.74	1000	
111 Cd	115	1	0.00	0.00	ppb	92.75	10000	
118 Sn	115	1	-0.04	-0.04	ppb	88.46	2500	
121 Sb	115	1	-0.03	-0.03	ppb	90.18	2500	
137 Ba	115	1	1.62	1.62	ppb	3.56	10000	
205 Tl	209	1	-0.29	-0.29	ppb	6.43	12500	
207 Pb	209	1	0.75	0.75	ppb	14.51	12500	
232 Th	209	1	-0.04	-0.04	ppb	24.42	550	
238 U	209	1	0.10	0.10	ppb	7.17	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	785127	1.42	803890	97.7	60 - 120	
89 Y	1	2632389	0.31	2738325	96.1	60 - 120	
115 In	1	2845128	0.38	2992760	95.1	60 - 120	
209 Bi	1	3714803	1.61	3793264	97.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\084SMPL.D\084SMPL.D#
Date Acquired: Dec 22 2009 08:18 pm
Acq. Method: STL5.M
Operator:
Sample Name: lb 220-34436/1-b
Misc Info:
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.15	0.15	ppb	44.06	550	
9 Be	45	1	0.00	0.00	ppb	1059.80	10000	
11 B	45	1	-3.16	-3.16	ppb	26.31	550	
23 Na	45	1	7.77	7.77	ppb	15.83	300000	
24 Mg	45	1	4.33	4.33	ppb	102.22	125000	
27 Al	45	1	10.26	10.26	ppb	90.63	62500	
29 Si	45	1	15.71	15.71	ppb	43.97	12500	
34 S	45	1	526.80	526.80	ppb	8.36	21000	
39 K	45	1	7.43	7.43	ppb	24.20	125000	
44 Ca	45	1	8.35	8.35	ppb	82.77	125000	
47 Ti	45	1	0.41	0.41	ppb	103.83	12500	
51 V	45	1	0.22	0.22	ppb	13.91	12500	
53 Cr	45	1	0.50	0.50	ppb	11.18	12500	
55 Mn	45	1	0.19	0.19	ppb	133.56	12500	
57 Fe	45	1	14.84	14.84	ppb	95.22	65000	
59 Co	89	1	-0.04	-0.04	ppb	27.20	12500	
60 Ni	89	1	0.03	0.03	ppb	90.30	2500	
63 Cu	89	1	0.10	0.10	ppb	19.01	2500	
66 Zn	89	1	0.31	0.31	ppb	25.11	2500	
75 As	89	1	0.04	0.04	ppb	54.51	12500	
78 Se	89	1	-0.07	-0.07	ppb	149.17	10000	
90 Zr	89	1	-0.10	-0.10	ppb	16.13	550	
95 Mo	89	1	-0.01	-0.01	ppb	165.37	12500	
107 Ag	115	1	0.00	0.00	ppb	423.12	1000	
111 Cd	115	1	0.00	0.00	ppb	411.48	10000	
118 Sn	115	1	-0.07	-0.07	ppb	38.89	2500	
121 Sb	115	1	-0.10	-0.10	ppb	15.22	2500	
137 Ba	115	1	0.04	0.04	ppb	118.63	10000	
205 Tl	209	1	-0.26	-0.26	ppb	8.94	12500	
207 Pb	209	1	0.09	0.09	ppb	90.83	12500	
232 Th	209	1	-0.10	-0.10	ppb	9.68	550	
238 U	209	1	-0.01	-0.01	ppb	80.35	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	763476	0.52	803890	95.0	60 - 120	
89 Y	1	2539132	1.45	2738325	92.7	60 - 120	
115 In	1	2763529	1.78	2992760	92.3	60 - 120	
209 Bi	1	3620934	1.41	3793264	95.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\085SMPL.D\085SMPL.D#
Date Acquired: Dec 22 2009 08:21 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-7-e
Misc Info:
Vial Number: 3407
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	1.10	1.10	ppb	14.82	550	
9 Be	45	1	0.03	0.03	ppb	127.51	10000	
11 B	45	1	7.59	7.59	ppb	13.85	550	
23 Na	45	1	3,031.00	3031.00	ppb	1.44	300000	
24 Mg	45	1	403.50	403.50	ppb	1.34	125000	
27 Al	45	1	618.40	618.40	ppb	1.52	62500	
29 Si	45	1	681.30	681.30	ppb	6.88	12500	
34 S	45	1	692.00	692.00	ppb	19.08	21000	
39 K	45	1	199.30	199.30	ppb	2.66	125000	
44 Ca	45	1	3,245.00	3245.00	ppb	1.10	125000	
47 Ti	45	1	13.78	13.78	ppb	7.08	12500	
51 V	45	1	2.49	2.49	ppb	1.15	12500	
53 Cr	45	1	1.32	1.32	ppb	0.42	12500	
55 Mn	45	1	24.40	24.40	ppb	0.99	12500	
57 Fe	45	1	458.00	458.00	ppb	1.54	65000	
59 Co	89	1	0.21	0.21	ppb	2.69	12500	
60 Ni	89	1	0.74	0.74	ppb	1.81	2500	
63 Cu	89	1	5.97	5.97	ppb	0.54	2500	
66 Zn	89	1	6.61	6.61	ppb	0.88	2500	
75 As	89	1	1.15	1.15	ppb	2.68	12500	
78 Se	89	1	0.04	0.04	ppb	389.51	10000	
90 Zr	89	1	0.36	0.36	ppb	7.37	550	
95 Mo	89	1	1.87	1.87	ppb	3.22	12500	
107 Ag	115	1	0.38	0.38	ppb	2.07	1000	
111 Cd	115	1	0.05	0.05	ppb	17.47	10000	
118 Sn	115	1	0.09	0.09	ppb	23.09	2500	
121 Sb	115	1	0.13	0.13	ppb	15.61	2500	
137 Ba	115	1	5.51	5.51	ppb	0.58	10000	
205 Tl	209	1	-0.29	-0.29	ppb	2.27	12500	
207 Pb	209	1	1.94	1.94	ppb	2.76	12500	
232 Th	209	1	0.00	0.00	ppb	104.67	550	
238 U	209	1	5.10	5.10	ppb	1.37	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	784710	0.70	803890	97.6	60 - 120	
89 Y	1	2644984	0.71	2738325	96.6	60 - 120	
115 In	1	2858013	0.66	2992760	95.5	60 - 120	
209 Bi	1	3691104	0.61	3793264	97.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\086SMPL.D\086SMPL.D#
Date Acquired: Dec 22 2009 08:25 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-8-c
Misc Info:
Vial Number: 3408
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.72	0.72	ppb	5.23	550	
9 Be	45	1	0.03	0.03	ppb	106.76	10000	
11 B	45	1	13.82	13.82	ppb	13.31	550	
23 Na	45	1	2,903.00	2903.00	ppb	1.07	300000	
24 Mg	45	1	94.89	94.89	ppb	2.24	125000	
27 Al	45	1	493.10	493.10	ppb	1.27	62500	
29 Si	45	1	433.10	433.10	ppb	3.74	12500	
34 S	45	1	791.90	791.90	ppb	11.20	21000	
39 K	45	1	90.70	90.70	ppb	2.53	125000	
44 Ca	45	1	149.60	149.60	ppb	4.19	125000	
47 Ti	45	1	11.62	11.62	ppb	0.48	12500	
51 V	45	1	2.27	2.27	ppb	1.62	12500	
53 Cr	45	1	0.94	0.94	ppb	2.84	12500	
55 Mn	45	1	12.43	12.43	ppb	1.56	12500	
57 Fe	45	1	330.00	330.00	ppb	3.25	65000	
59 Co	89	1	0.08	0.08	ppb	12.40	12500	
60 Ni	89	1	0.38	0.38	ppb	11.10	2500	
63 Cu	89	1	0.57	0.57	ppb	4.74	2500	
66 Zn	89	1	2.78	2.78	ppb	1.93	2500	
75 As	89	1	0.18	0.18	ppb	27.20	12500	
78 Se	89	1	-0.01	-0.01	ppb	429.33	10000	
90 Zr	89	1	0.05	0.05	ppb	15.01	550	
95 Mo	89	1	0.03	0.03	ppb	25.43	12500	
107 Ag	115	1	0.09	0.09	ppb	1.64	1000	
111 Cd	115	1	0.01	0.01	ppb	25.75	10000	
118 Sn	115	1	-0.13	-0.13	ppb	17.24	2500	
121 Sb	115	1	-0.09	-0.09	ppb	4.74	2500	
137 Ba	115	1	2.21	2.21	ppb	3.16	10000	
205 Tl	209	1	-0.29	-0.29	ppb	3.02	12500	
207 Pb	209	1	0.64	0.64	ppb	3.30	12500	
232 Th	209	1	-0.06	-0.06	ppb	7.89	550	
238 U	209	1	0.02	0.02	ppb	23.94	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	775810	0.93	803890	96.5	60 - 120	
89 Y	1	2630825	0.67	2738325	96.1	60 - 120	
115 In	1	2820100	1.07	2992760	94.2	60 - 120	
209 Bi	1	3687475	0.37	3793264	97.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\087SMPL.D\087SMPL.D#
Date Acquired: Dec 22 2009 08:28 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-9-c
Misc Info:
Vial Number: 3409
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	1.83	1.83	ppb	13.48	550	
9 Be	45	1	0.01	0.01	ppb	209.31	10000	
11 B	45	1	7.47	7.47	ppb	3.63	550	
23 Na	45	1	2,343.00	2343.00	ppb	0.98	300000	
24 Mg	45	1	125.50	125.50	ppb	1.33	125000	
27 Al	45	1	758.40	758.40	ppb	1.85	62500	
29 Si	45	1	505.00	505.00	ppb	3.21	12500	
34 S	45	1	588.40	588.40	ppb	18.71	21000	
39 K	45	1	190.80	190.80	ppb	3.81	125000	
44 Ca	45	1	222.50	222.50	ppb	2.64	125000	
47 Ti	45	1	18.80	18.80	ppb	4.80	12500	
51 V	45	1	2.30	2.30	ppb	2.42	12500	
53 Cr	45	1	1.57	1.57	ppb	11.11	12500	
55 Mn	45	1	14.10	14.10	ppb	2.38	12500	
57 Fe	45	1	474.80	474.80	ppb	2.60	65000	
59 Co	89	1	0.13	0.13	ppb	2.87	12500	
60 Ni	89	1	1.57	1.57	ppb	0.53	2500	
63 Cu	89	1	36.42	36.42	ppb	0.78	2500	
66 Zn	89	1	26.23	26.23	ppb	1.19	2500	
75 As	89	1	0.17	0.17	ppb	3.03	12500	
78 Se	89	1	0.06	0.06	ppb	78.09	10000	
90 Zr	89	1	0.09	0.09	ppb	38.49	550	
95 Mo	89	1	0.60	0.60	ppb	5.60	12500	
107 Ag	115	1	0.32	0.32	ppb	0.80	1000	
111 Cd	115	1	0.12	0.12	ppb	17.82	10000	
118 Sn	115	1	0.07	0.07	ppb	27.49	2500	
121 Sb	115	1	-0.02	-0.02	ppb	66.39	2500	
137 Ba	115	1	6.40	6.40	ppb	0.33	10000	
205 Tl	209	1	-0.30	-0.30	ppb	0.53	12500	
207 Pb	209	1	3.40	3.40	ppb	0.92	12500	
232 Th	209	1	-0.01	-0.01	ppb	19.08	550	
238 U	209	1	0.18	0.18	ppb	3.20	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	786812	1.60	803890	97.9	60 - 120	
89 Y	1	2639698	1.21	2738325	96.4	60 - 120	
115 In	1	2830558	0.85	2992760	94.6	60 - 120	
209 Bi	1	3651048	0.40	3793264	96.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\088SMPL.D\088SMPL.D#
Date Acquired: Dec 22 2009 08:32 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-10-c
Misc Info:
Vial Number: 3410
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	1.21	1.21	ppb	3.99	550	
9 Be	45	1	0.06	0.06	ppb	176.18	10000	
11 B	45	1	9.06	9.06	ppb	21.94	550	
23 Na	45	1	2,327.00	2327.00	ppb	1.41	300000	
24 Mg	45	1	276.10	276.10	ppb	1.70	125000	
27 Al	45	1	983.40	983.40	ppb	1.39	62500	
29 Si	45	1	872.10	872.10	ppb	3.13	12500	
34 S	45	1	663.40	663.40	ppb	13.37	21000	
39 K	45	1	187.10	187.10	ppb	2.86	125000	
44 Ca	45	1	1,496.00	1496.00	ppb	2.39	125000	
47 Ti	45	1	20.07	20.07	ppb	2.77	12500	
51 V	45	1	2.28	2.28	ppb	0.36	12500	
53 Cr	45	1	1.18	1.18	ppb	1.37	12500	
55 Mn	45	1	47.66	47.66	ppb	1.86	12500	
57 Fe	45	1	660.90	660.90	ppb	1.94	65000	
59 Co	89	1	0.27	0.27	ppb	1.30	12500	
60 Ni	89	1	0.86	0.86	ppb	2.71	2500	
63 Cu	89	1	2.36	2.36	ppb	1.45	2500	
66 Zn	89	1	4.70	4.70	ppb	1.01	2500	
75 As	89	1	0.34	0.34	ppb	15.95	12500	
78 Se	89	1	0.10	0.10	ppb	227.83	10000	
90 Zr	89	1	0.50	0.50	ppb	163.39	550	
95 Mo	89	1	0.19	0.19	ppb	0.36	12500	
107 Ag	115	1	0.04	0.04	ppb	30.48	1000	
111 Cd	115	1	0.01	0.01	ppb	7.80	10000	
118 Sn	115	1	-0.15	-0.15	ppb	33.44	2500	
121 Sb	115	1	-0.10	-0.10	ppb	6.06	2500	
137 Ba	115	1	5.91	5.91	ppb	1.11	10000	
205 Tl	209	1	-0.29	-0.29	ppb	4.43	12500	
207 Pb	209	1	1.26	1.26	ppb	4.69	12500	
232 Th	209	1	-0.05	-0.05	ppb	3.09	550	
238 U	209	1	0.02	0.02	ppb	12.97	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	793363	1.00	803890	98.7	60 - 120	
89 Y	1	2647855	0.64	2738325	96.7	60 - 120	
115 In	1	2857918	0.77	2992760	95.5	60 - 120	
209 Bi	1	3710983	0.63	3793264	97.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\089SMPL.D\089SMPL.D#
Date Acquired: Dec 22 2009 08:35 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3411
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	82.92	82.92	ppb	4.47	550	
9 Be	45	1	120.50	120.50	ppb	1.03	10000	
11 B	45	1	191.20	191.20	ppb	2.20	550	
23 Na	45	1	2,102.00	2102.00	ppb	1.21	300000	
24 Mg	45	1	2,614.00	2614.00	ppb	1.48	125000	
27 Al	45	1	3,695.00	3695.00	ppb	1.86	62500	
29 Si	45	1	174.00	174.00	ppb	11.14	12500	
34 S	45	1	10,930.00	10930.00	ppb	2.32	21000	
39 K	45	1	4,180.00	4180.00	ppb	1.92	125000	
44 Ca	45	1	2,530.00	2530.00	ppb	1.87	125000	
47 Ti	45	1	197.40	197.40	ppb	0.56	12500	
51 V	45	1	61.69	61.69	ppb	1.47	12500	
53 Cr	45	1	58.18	58.18	ppb	1.44	12500	
55 Mn	45	1	41.53	41.53	ppb	1.31	12500	
57 Fe	45	1	998.90	998.90	ppb	1.13	65000	
59 Co	89	1	64.06	64.06	ppb	1.29	12500	
60 Ni	89	1	61.53	61.53	ppb	1.09	2500	
63 Cu	89	1	62.90	62.90	ppb	1.03	2500	
66 Zn	89	1	61.90	61.90	ppb	1.02	2500	
75 As	89	1	202.80	202.80	ppb	0.98	12500	
78 Se	89	1	98.41	98.41	ppb	4.08	10000	
90 Zr	89	1	162.10	162.10	ppb	1.50	550	
95 Mo	89	1	195.30	195.30	ppb	0.44	12500	
107 Ag	115	1	64.04	64.04	ppb	1.07	1000	
111 Cd	115	1	59.50	59.50	ppb	1.38	10000	
118 Sn	115	1	191.50	191.50	ppb	0.95	2500	
121 Sb	115	1	206.30	206.30	ppb	1.86	2500	
137 Ba	115	1	57.84	57.84	ppb	0.69	10000	
205 Tl	209	1	192.10	192.10	ppb	2.57	12500	
207 Pb	209	1	205.00	205.00	ppb	2.19	12500	
232 Th	209	1	70.45	70.45	ppb	0.39	550	
238 U	209	1	74.83	74.83	ppb	1.57	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	757007	1.49	803890	94.2	60 - 120	
89 Y	1	2512162	0.85	2738325	91.7	60 - 120	
115 In	1	2711031	0.95	2992760	90.6	60 - 120	
209 Bi	1	3462973	2.06	3793264	91.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\090SMPL.D\090SMPL.D#
Date Acquired: Dec 22 2009 08:39 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3412
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.02	0.02	ppb	242.16	550	
9 Be	45	1	0.02	0.02	ppb	229.63	10000	
11 B	45	1	1.15	1.15	ppb	115.44	550	
23 Na	45	1	4.91	4.91	ppb	28.94	300000	
24 Mg	45	1	4.22	4.22	ppb	47.59	125000	
27 Al	45	1	8.22	8.22	ppb	47.99	62500	
29 Si	45	1	15.11	15.11	ppb	32.43	12500	
34 S	45	1	378.00	378.00	ppb	7.18	21000	
39 K	45	1	12.76	12.76	ppb	20.67	125000	
44 Ca	45	1	8.37	8.37	ppb	43.30	125000	
47 Ti	45	1	0.54	0.54	ppb	42.55	12500	
51 V	45	1	0.07	0.07	ppb	8.77	12500	
53 Cr	45	1	0.07	0.07	ppb	19.33	12500	
55 Mn	45	1	0.33	0.33	ppb	37.12	12500	
57 Fe	45	1	11.86	11.86	ppb	40.72	65000	
59 Co	89	1	0.05	0.05	ppb	5.25	12500	
60 Ni	89	1	0.02	0.02	ppb	123.62	2500	
63 Cu	89	1	-0.08	-0.08	ppb	19.30	2500	
66 Zn	89	1	-0.13	-0.13	ppb	4.24	2500	
75 As	89	1	0.16	0.16	ppb	23.15	12500	
78 Se	89	1	0.13	0.13	ppb	69.01	10000	
90 Zr	89	1	0.08	0.08	ppb	40.98	550	
95 Mo	89	1	1.63	1.63	ppb	8.75	12500	
107 Ag	115	1	0.04	0.04	ppb	26.67	1000	
111 Cd	115	1	0.03	0.03	ppb	25.54	10000	
118 Sn	115	1	3.15	3.15	ppb	6.27	2500	
121 Sb	115	1	1.68	1.68	ppb	7.43	2500	
137 Ba	115	1	0.05	0.05	ppb	51.02	10000	
205 Tl	209	1	-0.09	-0.09	ppb	17.83	12500	
207 Pb	209	1	0.23	0.23	ppb	22.01	12500	
232 Th	209	1	1.13	1.13	ppb	15.12	550	
238 U	209	1	0.05	0.05	ppb	16.02	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	734810	0.39	803890	91.4	60 - 120	
89 Y	1	2500368	1.10	2738325	91.3	60 - 120	
115 In	1	2725610	1.60	2992760	91.1	60 - 120	
209 Bi	1	3510785	1.31	3793264	92.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\091SMPL.D\091SMPL.D#
Date Acquired: Dec 22 2009 08:43 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-11-c
Misc Info:
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.86	0.86	ppb	23.83	550	
9 Be	45	1	0.03	0.03	ppb	138.55	10000	
11 B	45	1	7.61	7.61	ppb	21.62	550	
23 Na	45	1	2,955.00	2955.00	ppb	0.72	300000	
24 Mg	45	1	237.30	237.30	ppb	0.74	125000	
27 Al	45	1	343.90	343.90	ppb	0.67	62500	
29 Si	45	1	603.70	603.70	ppb	1.17	12500	
34 S	45	1	666.60	666.60	ppb	19.52	21000	
39 K	45	1	156.00	156.00	ppb	0.89	125000	
44 Ca	45	1	2,491.00	2491.00	ppb	1.49	125000	
47 Ti	45	1	6.86	6.86	ppb	3.22	12500	
51 V	45	1	2.28	2.28	ppb	1.06	12500	
53 Cr	45	1	0.89	0.89	ppb	1.94	12500	
55 Mn	45	1	8.33	8.33	ppb	1.47	12500	
57 Fe	45	1	214.40	214.40	ppb	2.23	65000	
59 Co	89	1	0.05	0.05	ppb	12.56	12500	
60 Ni	89	1	0.28	0.28	ppb	4.80	2500	
63 Cu	89	1	0.79	0.79	ppb	4.16	2500	
66 Zn	89	1	4.51	4.51	ppb	2.05	2500	
75 As	89	1	0.38	0.38	ppb	4.51	12500	
78 Se	89	1	0.00	0.00	ppb	44068.00	10000	
90 Zr	89	1	1.26	1.26	ppb	2.13	550	
95 Mo	89	1	0.33	0.33	ppb	11.63	12500	
107 Ag	115	1	0.03	0.03	ppb	21.65	1000	
111 Cd	115	1	0.00	0.00	ppb	139.66	10000	
118 Sn	115	1	1.01	1.01	ppb	8.67	2500	
121 Sb	115	1	0.19	0.19	ppb	7.48	2500	
137 Ba	115	1	1.88	1.88	ppb	3.67	10000	
205 Tl	209	1	-0.28	-0.28	ppb	1.65	12500	
207 Pb	209	1	0.43	0.43	ppb	3.34	12500	
232 Th	209	1	0.28	0.28	ppb	0.71	550	
238 U	209	1	0.05	0.05	ppb	5.51	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	780444	0.26	803890	97.1	60 - 120	
89 Y	1	2625342	0.42	2738325	95.9	60 - 120	
115 In	1	2846285	0.73	2992760	95.1	60 - 120	
209 Bi	1	3723477	0.95	3793264	98.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\092SMPL.D\092SMPL.D#
Date Acquired: Dec 22 2009 08:46 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-12-c
Misc Info:
Vial Number: 3502
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.49	0.49	ppb	14.23	550	
9 Be	45	1	0.01	0.01	ppb	253.44	10000	
11 B	45	1	3.47	3.47	ppb	41.56	550	
23 Na	45	1	1,775.00	1775.00	ppb	0.76	300000	
24 Mg	45	1	36.18	36.18	ppb	6.10	125000	
27 Al	45	1	33.19	33.19	ppb	11.53	62500	
29 Si	45	1	56.75	56.75	ppb	5.53	12500	
34 S	45	1	652.90	652.90	ppb	19.15	21000	
39 K	45	1	114.30	114.30	ppb	3.62	125000	
44 Ca	45	1	80.06	80.06	ppb	7.68	125000	
47 Ti	45	1	0.55	0.55	ppb	14.13	12500	
51 V	45	1	0.20	0.20	ppb	10.20	12500	
53 Cr	45	1	0.62	0.62	ppb	3.71	12500	
55 Mn	45	1	2.02	2.02	ppb	9.40	12500	
57 Fe	45	1	13.45	13.45	ppb	40.59	65000	
59 Co	89	1	0.01	0.01	ppb	87.02	12500	
60 Ni	89	1	0.17	0.17	ppb	8.28	2500	
63 Cu	89	1	0.14	0.14	ppb	10.51	2500	
66 Zn	89	1	3.90	3.90	ppb	4.60	2500	
75 As	89	1	0.07	0.07	ppb	31.50	12500	
78 Se	89	1	-0.05	-0.05	ppb	435.72	10000	
90 Zr	89	1	0.15	0.15	ppb	5.88	550	
95 Mo	89	1	0.08	0.08	ppb	11.40	12500	
107 Ag	115	1	0.01	0.01	ppb	97.58	1000	
111 Cd	115	1	0.01	0.01	ppb	160.26	10000	
118 Sn	115	1	0.32	0.32	ppb	31.93	2500	
121 Sb	115	1	-0.01	-0.01	ppb	84.10	2500	
137 Ba	115	1	1.34	1.34	ppb	1.46	10000	
205 Tl	209	1	-0.29	-0.29	ppb	3.17	12500	
207 Pb	209	1	0.09	0.09	ppb	43.68	12500	
232 Th	209	1	0.02	0.02	ppb	54.28	550	
238 U	209	1	-0.01	-0.01	ppb	50.27	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	779552	0.54	803890	97.0	60 - 120	
89 Y	1	2609434	0.82	2738325	95.3	60 - 120	
115 In	1	2821870	0.62	2992760	94.3	60 - 120	
209 Bi	1	3687846	1.38	3793264	97.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\093SMPL.D\093SMPL.D#
Date Acquired: Dec 22 2009 08:50 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-13-c
Misc Info:
Vial Number: 3503
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.86	0.86	ppb	13.10	550	
9 Be	45	1	0.01	0.01	ppb	250.22	10000	
11 B	45	1	12.71	12.71	ppb	7.26	550	
23 Na	45	1	1,360.00	1360.00	ppb	1.30	300000	
24 Mg	45	1	234.90	234.90	ppb	2.33	125000	
27 Al	45	1	568.70	568.70	ppb	2.32	62500	
29 Si	45	1	604.30	604.30	ppb	4.59	12500	
34 S	45	1	455.60	455.60	ppb	14.75	21000	
39 K	45	1	157.80	157.80	ppb	2.92	125000	
44 Ca	45	1	218.20	218.20	ppb	4.38	125000	
47 Ti	45	1	13.23	13.23	ppb	2.27	12500	
51 V	45	1	1.34	1.34	ppb	2.02	12500	
53 Cr	45	1	0.91	0.91	ppb	4.47	12500	
55 Mn	45	1	17.90	17.90	ppb	3.04	12500	
57 Fe	45	1	417.80	417.80	ppb	2.07	65000	
59 Co	89	1	0.19	0.19	ppb	8.91	12500	
60 Ni	89	1	0.48	0.48	ppb	5.80	2500	
63 Cu	89	1	1.35	1.35	ppb	2.66	2500	
66 Zn	89	1	3.32	3.32	ppb	1.70	2500	
75 As	89	1	0.22	0.22	ppb	5.87	12500	
78 Se	89	1	-0.06	-0.06	ppb	169.86	10000	
90 Zr	89	1	0.11	0.11	ppb	23.89	550	
95 Mo	89	1	0.06	0.06	ppb	28.49	12500	
107 Ag	115	1	0.04	0.04	ppb	14.48	1000	
111 Cd	115	1	0.01	0.01	ppb	109.39	10000	
118 Sn	115	1	0.06	0.06	ppb	107.05	2500	
121 Sb	115	1	-0.05	-0.05	ppb	17.93	2500	
137 Ba	115	1	2.97	2.97	ppb	3.97	10000	
205 Tl	209	1	-0.29	-0.29	ppb	3.95	12500	
207 Pb	209	1	1.66	1.66	ppb	2.74	12500	
232 Th	209	1	0.00	0.00	ppb	1086.90	550	
238 U	209	1	0.01	0.01	ppb	45.41	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	775828	1.40	803890	96.5	60 - 120	
89 Y	1	2586084	0.51	2738325	94.4	60 - 120	
115 In	1	2804352	0.32	2992760	93.7	60 - 120	
209 Bi	1	3688106	1.01	3793264	97.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\094SMPL.D\094SMPL.D#
Date Acquired: Dec 22 2009 08:53 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-14-c
Misc Info:
Vial Number: 3504
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.86	0.86	ppb	8.57	550	
9 Be	45	1	0.03	0.03	ppb	32.45	10000	
11 B	45	1	13.56	13.56	ppb	11.45	550	
23 Na	45	1	2,713.00	2713.00	ppb	0.19	300000	
24 Mg	45	1	114.90	114.90	ppb	0.73	125000	
27 Al	45	1	1,464.00	1464.00	ppb	0.49	62500	
29 Si	45	1	741.20	741.20	ppb	0.74	12500	
34 S	45	1	635.60	635.60	ppb	20.97	21000	
39 K	45	1	62.48	62.48	ppb	2.08	125000	
44 Ca	45	1	207.90	207.90	ppb	0.37	125000	
47 Ti	45	1	48.54	48.54	ppb	0.59	12500	
51 V	45	1	1.81	1.81	ppb	2.74	12500	
53 Cr	45	1	1.33	1.33	ppb	3.46	12500	
55 Mn	45	1	22.90	22.90	ppb	0.51	12500	
57 Fe	45	1	1,053.00	1053.00	ppb	0.50	65000	
59 Co	89	1	0.13	0.13	ppb	3.90	12500	
60 Ni	89	1	0.61	0.61	ppb	5.91	2500	
63 Cu	89	1	0.65	0.65	ppb	0.71	2500	
66 Zn	89	1	5.00	5.00	ppb	1.21	2500	
75 As	89	1	0.27	0.27	ppb	3.50	12500	
78 Se	89	1	0.02	0.02	ppb	392.92	10000	
90 Zr	89	1	0.13	0.13	ppb	22.09	550	
95 Mo	89	1	0.03	0.03	ppb	72.33	12500	
107 Ag	115	1	0.02	0.02	ppb	9.10	1000	
111 Cd	115	1	0.00	0.00	ppb	456.33	10000	
118 Sn	115	1	0.00	0.00	ppb	1782.60	2500	
121 Sb	115	1	-0.07	-0.07	ppb	11.73	2500	
137 Ba	115	1	3.21	3.21	ppb	1.93	10000	
205 Tl	209	1	-0.30	-0.30	ppb	1.60	12500	
207 Pb	209	1	0.59	0.59	ppb	2.78	12500	
232 Th	209	1	0.05	0.05	ppb	8.41	550	
238 U	209	1	0.02	0.02	ppb	16.53	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	780665	0.49	803890	97.1	60 - 120	
89 Y	1	2616196	0.71	2738325	95.5	60 - 120	
115 In	1	2815061	0.27	2992760	94.1	60 - 120	
209 Bi	1	3732526	1.61	3793264	98.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\095SMPL.D\095SMPL.D#
Date Acquired: Dec 22 2009 08:57 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-15-c
Misc Info:
Vial Number: 3505
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.73	0.73	ppb	9.31	550	
9 Be	45	1	-0.02	-0.02	ppb	49.11	10000	
11 B	45	1	8.28	8.28	ppb	20.85	550	
23 Na	45	1	2,585.00	2585.00	ppb	0.34	300000	
24 Mg	45	1	80.22	80.22	ppb	1.93	125000	
27 Al	45	1	181.80	181.80	ppb	2.06	62500	
29 Si	45	1	331.30	331.30	ppb	3.64	12500	
34 S	45	1	602.50	602.50	ppb	10.22	21000	
39 K	45	1	88.76	88.76	ppb	2.90	125000	
44 Ca	45	1	91.43	91.43	ppb	5.97	125000	
47 Ti	45	1	2.88	2.88	ppb	8.03	12500	
51 V	45	1	0.43	0.43	ppb	0.75	12500	
53 Cr	45	1	0.66	0.66	ppb	6.03	12500	
55 Mn	45	1	2.45	2.45	ppb	2.96	12500	
57 Fe	45	1	109.70	109.70	ppb	3.56	65000	
59 Co	89	1	0.01	0.01	ppb	66.92	12500	
60 Ni	89	1	0.13	0.13	ppb	5.93	2500	
63 Cu	89	1	0.34	0.34	ppb	3.86	2500	
66 Zn	89	1	6.92	6.92	ppb	1.19	2500	
75 As	89	1	0.08	0.08	ppb	3.74	12500	
78 Se	89	1	0.01	0.01	ppb	637.49	10000	
90 Zr	89	1	-0.01	-0.01	ppb	74.41	550	
95 Mo	89	1	-0.01	-0.01	ppb	64.84	12500	
107 Ag	115	1	0.02	0.02	ppb	13.96	1000	
111 Cd	115	1	0.00	0.00	ppb	561.37	10000	
118 Sn	115	1	-0.06	-0.06	ppb	77.55	2500	
121 Sb	115	1	-0.10	-0.10	ppb	4.14	2500	
137 Ba	115	1	0.73	0.73	ppb	9.35	10000	
205 Tl	209	1	-0.30	-0.30	ppb	2.31	12500	
207 Pb	209	1	0.11	0.11	ppb	25.55	12500	
232 Th	209	1	-0.04	-0.04	ppb	6.75	550	
238 U	209	1	-0.01	-0.01	ppb	59.01	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	778046	0.11	803890	96.8	60 - 120	
89 Y	1	2589841	1.05	2738325	94.6	60 - 120	
115 In	1	2823790	0.78	2992760	94.4	60 - 120	
209 Bi	1	3690273	0.76	3793264	97.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\096SMPL.D\096SMPL.D#
Date Acquired: Dec 22 2009 09:00 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-16-c
Misc Info:
Vial Number: 3506
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.89	0.89	ppb	14.55	550	
9 Be	45	1	-0.02	-0.02	ppb	0.00	10000	
11 B	45	1	7.94	7.94	ppb	12.71	550	
23 Na	45	1	2,612.00	2612.00	ppb	1.52	300000	
24 Mg	45	1	201.60	201.60	ppb	1.75	125000	
27 Al	45	1	517.90	517.90	ppb	1.24	62500	
29 Si	45	1	547.60	547.60	ppb	2.78	12500	
34 S	45	1	587.70	587.70	ppb	17.97	21000	
39 K	45	1	137.60	137.60	ppb	3.60	125000	
44 Ca	45	1	74.60	74.60	ppb	2.08	125000	
47 Ti	45	1	8.99	8.99	ppb	2.24	12500	
51 V	45	1	1.04	1.04	ppb	2.70	12500	
53 Cr	45	1	0.92	0.92	ppb	2.99	12500	
55 Mn	45	1	13.48	13.48	ppb	2.16	12500	
57 Fe	45	1	373.70	373.70	ppb	2.00	65000	
59 Co	89	1	0.16	0.16	ppb	3.20	12500	
60 Ni	89	1	0.41	0.41	ppb	6.99	2500	
63 Cu	89	1	0.84	0.84	ppb	1.23	2500	
66 Zn	89	1	5.75	5.75	ppb	1.20	2500	
75 As	89	1	0.19	0.19	ppb	9.92	12500	
78 Se	89	1	-0.08	-0.08	ppb	109.68	10000	
90 Zr	89	1	-0.01	-0.01	ppb	39.75	550	
95 Mo	89	1	0.07	0.07	ppb	14.67	12500	
107 Ag	115	1	0.02	0.02	ppb	14.09	1000	
111 Cd	115	1	0.00	0.00	ppb	279.86	10000	
118 Sn	115	1	-0.10	-0.10	ppb	50.73	2500	
121 Sb	115	1	-0.10	-0.10	ppb	6.26	2500	
137 Ba	115	1	1.60	1.60	ppb	4.60	10000	
205 Tl	209	1	-0.30	-0.30	ppb	1.30	12500	
207 Pb	209	1	0.24	0.24	ppb	5.96	12500	
232 Th	209	1	-0.02	-0.02	ppb	26.30	550	
238 U	209	1	0.01	0.01	ppb	63.16	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	783064	0.88	803890	97.4	60 - 120	
89 Y	1	2603303	0.91	2738325	95.1	60 - 120	
115 In	1	2804296	1.32	2992760	93.7	60 - 120	
209 Bi	1	3712308	0.91	3793264	97.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\097SMPL.D\097SMPL.D#
Date Acquired: Dec 22 2009 09:04 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-17-c
Misc Info:
Vial Number: 3507
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	1.73	1.73	ppb	6.89	550	
9 Be	45	1	0.06	0.06	ppb	29.97	10000	
11 B	45	1	10.90	10.90	ppb	6.97	550	
23 Na	45	1	2,566.00	2566.00	ppb	0.56	300000	
24 Mg	45	1	434.30	434.30	ppb	1.75	125000	
27 Al	45	1	1,336.00	1336.00	ppb	1.22	62500	
29 Si	45	1	1,101.00	1101.00	ppb	2.18	12500	
34 S	45	1	488.40	488.40	ppb	17.60	21000	
39 K	45	1	297.90	297.90	ppb	2.76	125000	
44 Ca	45	1	948.80	948.80	ppb	1.89	125000	
47 Ti	45	1	25.42	25.42	ppb	1.85	12500	
51 V	45	1	2.54	2.54	ppb	2.29	12500	
53 Cr	45	1	1.34	1.34	ppb	10.80	12500	
55 Mn	45	1	25.61	25.61	ppb	1.35	12500	
57 Fe	45	1	1,008.00	1008.00	ppb	0.91	65000	
59 Co	89	1	0.47	0.47	ppb	2.49	12500	
60 Ni	89	1	1.16	1.16	ppb	2.42	2500	
63 Cu	89	1	3.89	3.89	ppb	0.96	2500	
66 Zn	89	1	7.27	7.27	ppb	2.88	2500	
75 As	89	1	0.42	0.42	ppb	11.58	12500	
78 Se	89	1	0.05	0.05	ppb	171.00	10000	
90 Zr	89	1	0.11	0.11	ppb	7.21	550	
95 Mo	89	1	0.02	0.02	ppb	50.70	12500	
107 Ag	115	1	0.05	0.05	ppb	16.40	1000	
111 Cd	115	1	0.00	0.00	ppb	93.91	10000	
118 Sn	115	1	-0.13	-0.13	ppb	14.22	2500	
121 Sb	115	1	-0.10	-0.10	ppb	8.79	2500	
137 Ba	115	1	8.73	8.73	ppb	0.43	10000	
205 Tl	209	1	-0.29	-0.29	ppb	1.56	12500	
207 Pb	209	1	1.06	1.06	ppb	4.28	12500	
232 Th	209	1	0.07	0.07	ppb	5.32	550	
238 U	209	1	0.05	0.05	ppb	3.45	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	779972	1.08	803890	97.0	60 - 120	
89 Y	1	2598875	0.58	2738325	94.9	60 - 120	
115 In	1	2787573	0.39	2992760	93.1	60 - 120	
209 Bi	1	3683323	1.16	3793264	97.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\098SMPL.D\098SMPL.D#
Date Acquired: Dec 22 2009 09:08 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-18-c
Misc Info:
Vial Number: 3508
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	1.40	1.40	ppb	12.17	550	
9 Be	45	1	0.07	0.07	ppb	77.25	10000	
11 B	45	1	17.89	17.89	ppb	5.86	550	
23 Na	45	1	3,011.00	3011.00	ppb	1.80	300000	
24 Mg	45	1	183.40	183.40	ppb	1.69	125000	
27 Al	45	1	1,505.00	1505.00	ppb	1.54	62500	
29 Si	45	1	955.50	955.50	ppb	3.44	12500	
34 S	45	1	671.40	671.40	ppb	12.70	21000	
39 K	45	1	175.00	175.00	ppb	2.85	125000	
44 Ca	45	1	165.80	165.80	ppb	3.31	125000	
47 Ti	45	1	35.38	35.38	ppb	0.43	12500	
51 V	45	1	2.19	2.19	ppb	2.67	12500	
53 Cr	45	1	1.28	1.28	ppb	1.98	12500	
55 Mn	45	1	18.69	18.69	ppb	1.68	12500	
57 Fe	45	1	883.10	883.10	ppb	2.11	65000	
59 Co	89	1	0.33	0.33	ppb	3.70	12500	
60 Ni	89	1	0.87	0.87	ppb	4.18	2500	
63 Cu	89	1	3.02	3.02	ppb	1.61	2500	
66 Zn	89	1	5.02	5.02	ppb	0.41	2500	
75 As	89	1	0.28	0.28	ppb	26.79	12500	
78 Se	89	1	0.08	0.08	ppb	115.42	10000	
90 Zr	89	1	0.04	0.04	ppb	13.78	550	
95 Mo	89	1	-0.01	-0.01	ppb	29.60	12500	
107 Ag	115	1	0.02	0.02	ppb	28.28	1000	
111 Cd	115	1	0.01	0.01	ppb	58.23	10000	
118 Sn	115	1	-0.15	-0.15	ppb	11.86	2500	
121 Sb	115	1	-0.11	-0.11	ppb	10.54	2500	
137 Ba	115	1	4.59	4.59	ppb	0.63	10000	
205 Tl	209	1	-0.30	-0.30	ppb	1.76	12500	
207 Pb	209	1	0.76	0.76	ppb	4.69	12500	
232 Th	209	1	0.10	0.10	ppb	5.82	550	
238 U	209	1	0.04	0.04	ppb	10.71	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	786022	1.35	803890	97.8	60 - 120	
89 Y	1	2600250	0.82	2738325	95.0	60 - 120	
115 In	1	2797118	0.35	2992760	93.5	60 - 120	
209 Bi	1	3712981	0.65	3793264	97.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\099SMPL.D\099SMPL.D#
Date Acquired: Dec 22 2009 09:11 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-19-c
Misc Info:
Vial Number: 3509
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.97	0.97	ppb	0.85	550	
9 Be	45	1	0.01	0.01	ppb	312.53	10000	
11 B	45	1	11.10	11.10	ppb	24.14	550	
23 Na	45	1	2,686.00	2686.00	ppb	1.02	300000	
24 Mg	45	1	148.20	148.20	ppb	1.79	125000	
27 Al	45	1	655.20	655.20	ppb	0.85	62500	
29 Si	45	1	627.90	627.90	ppb	1.13	12500	
34 S	45	1	626.30	626.30	ppb	17.71	21000	
39 K	45	1	126.10	126.10	ppb	2.16	125000	
44 Ca	45	1	102.90	102.90	ppb	3.27	125000	
47 Ti	45	1	12.34	12.34	ppb	1.47	12500	
51 V	45	1	1.15	1.15	ppb	1.41	12500	
53 Cr	45	1	0.92	0.92	ppb	6.39	12500	
55 Mn	45	1	13.52	13.52	ppb	1.27	12500	
57 Fe	45	1	435.10	435.10	ppb	1.83	65000	
59 Co	89	1	0.14	0.14	ppb	2.25	12500	
60 Ni	89	1	0.41	0.41	ppb	2.03	2500	
63 Cu	89	1	1.11	1.11	ppb	1.98	2500	
66 Zn	89	1	4.39	4.39	ppb	1.75	2500	
75 As	89	1	0.17	0.17	ppb	23.20	12500	
78 Se	89	1	-0.04	-0.04	ppb	231.27	10000	
90 Zr	89	1	-0.01	-0.01	ppb	86.62	550	
95 Mo	89	1	-0.03	-0.03	ppb	16.06	12500	
107 Ag	115	1	0.10	0.10	ppb	4.93	1000	
111 Cd	115	1	0.00	0.00	ppb	138.02	10000	
118 Sn	115	1	-0.17	-0.17	ppb	18.84	2500	
121 Sb	115	1	-0.12	-0.12	ppb	9.66	2500	
137 Ba	115	1	2.27	2.27	ppb	1.43	10000	
205 Tl	209	1	-0.30	-0.30	ppb	1.66	12500	
207 Pb	209	1	0.29	0.29	ppb	4.41	12500	
232 Th	209	1	0.00	0.00	ppb	380.59	550	
238 U	209	1	0.01	0.01	ppb	44.16	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	786702	0.77	803890	97.9	60 - 120	
89 Y	1	2592523	0.80	2738325	94.7	60 - 120	
115 In	1	2797761	0.44	2992760	93.5	60 - 120	
209 Bi	1	3687487	1.15	3793264	97.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\100SMPL.D\100SMPL.D#
Date Acquired: Dec 22 2009 09:15 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3510
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	86.27	86.27	ppb	1.87	550	
9 Be	45	1	125.10	125.10	ppb	2.07	10000	
11 B	45	1	188.90	188.90	ppb	1.13	550	
23 Na	45	1	2,133.00	2133.00	ppb	1.19	300000	
24 Mg	45	1	2,645.00	2645.00	ppb	1.05	125000	
27 Al	45	1	3,689.00	3689.00	ppb	1.00	62500	
29 Si	45	1	166.20	166.20	ppb	1.49	12500	
34 S	45	1	10,770.00	10770.00	ppb	2.02	21000	
39 K	45	1	4,189.00	4189.00	ppb	1.49	125000	
44 Ca	45	1	2,534.00	2534.00	ppb	1.46	125000	
47 Ti	45	1	198.70	198.70	ppb	0.94	12500	
51 V	45	1	62.25	62.25	ppb	1.28	12500	
53 Cr	45	1	58.23	58.23	ppb	0.75	12500	
55 Mn	45	1	41.56	41.56	ppb	1.09	12500	
57 Fe	45	1	989.30	989.30	ppb	0.46	65000	
59 Co	89	1	65.19	65.19	ppb	0.51	12500	
60 Ni	89	1	62.40	62.40	ppb	0.55	2500	
63 Cu	89	1	63.91	63.91	ppb	0.96	2500	
66 Zn	89	1	62.39	62.39	ppb	0.55	2500	
75 As	89	1	206.30	206.30	ppb	1.52	12500	
78 Se	89	1	98.93	98.93	ppb	1.74	10000	
90 Zr	89	1	165.00	165.00	ppb	0.29	550	
95 Mo	89	1	200.90	200.90	ppb	0.67	12500	
107 Ag	115	1	63.93	63.93	ppb	1.70	1000	
111 Cd	115	1	59.90	59.90	ppb	1.35	10000	
118 Sn	115	1	192.60	192.60	ppb	1.81	2500	
121 Sb	115	1	203.40	203.40	ppb	1.64	2500	
137 Ba	115	1	57.68	57.68	ppb	1.19	10000	
205 Tl	209	1	192.60	192.60	ppb	1.78	12500	
207 Pb	209	1	204.80	204.80	ppb	0.43	12500	
232 Th	209	1	71.62	71.62	ppb	0.93	550	
238 U	209	1	74.13	74.13	ppb	0.57	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	785159	1.18	803890	97.7	60 - 120	
89 Y	1	2592591	0.74	2738325	94.7	60 - 120	
115 In	1	2813414	1.18	2992760	94.0	60 - 120	
209 Bi	1	3620445	1.41	3793264	95.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L22o00.B\101SMPL.D\101SMPL.D#
Date Acquired: Dec 22 2009 09:18 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3511
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 22 2009 03:10 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.00	0.00	ppb	539.65	550	
9 Be	45	1	0.02	0.02	ppb	50.17	10000	
11 B	45	1	-1.89	-1.89	ppb	62.18	550	
23 Na	45	1	1.34	1.34	ppb	116.75	300000	
24 Mg	45	1	0.75	0.75	ppb	101.08	125000	
27 Al	45	1	1.95	1.95	ppb	72.74	62500	
29 Si	45	1	6.34	6.34	ppb	151.36	12500	
34 S	45	1	258.40	258.40	ppb	50.77	21000	
39 K	45	1	7.27	7.27	ppb	26.98	125000	
44 Ca	45	1	1.94	1.94	ppb	81.73	125000	
47 Ti	45	1	0.21	0.21	ppb	31.48	12500	
51 V	45	1	0.02	0.02	ppb	29.59	12500	
53 Cr	45	1	0.05	0.05	ppb	21.13	12500	
55 Mn	45	1	0.13	0.13	ppb	33.62	12500	
57 Fe	45	1	2.95	2.95	ppb	70.20	65000	
59 Co	89	1	0.02	0.02	ppb	34.90	12500	
60 Ni	89	1	-0.05	-0.05	ppb	20.98	2500	
63 Cu	89	1	-0.17	-0.17	ppb	8.75	2500	
66 Zn	89	1	-0.47	-0.47	ppb	1.49	2500	
75 As	89	1	0.07	0.07	ppb	18.28	12500	
78 Se	89	1	0.05	0.05	ppb	514.56	10000	
90 Zr	89	1	0.04	0.04	ppb	28.92	550	
95 Mo	89	1	1.51	1.51	ppb	12.81	12500	
107 Ag	115	1	0.01	0.01	ppb	112.82	1000	
111 Cd	115	1	0.00	0.00	ppb	174.72	10000	
118 Sn	115	1	2.92	2.92	ppb	4.10	2500	
121 Sb	115	1	1.59	1.59	ppb	15.32	2500	
137 Ba	115	1	-0.01	-0.01	ppb	196.64	10000	
205 Tl	209	1	-0.18	-0.18	ppb	7.84	12500	
207 Pb	209	1	0.12	0.12	ppb	37.20	12500	
232 Th	209	1	1.13	1.13	ppb	13.20	550	
238 U	209	1	0.02	0.02	ppb	39.38	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	765157	0.73	803890	95.2	60 - 120	
89 Y	1	2554419	1.34	2738325	93.3	60 - 120	
115 In	1	2758788	0.45	2992760	92.2	60 - 120	
209 Bi	1	3621971	0.33	3793264	95.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L22o00.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

TestAmerica

128 Long Hill Cross Roads
Shelton, Connecticut, 06484

METALS QUALITY CONTROL APPROVAL REPORT

Batch Number 34609

	1st Level Review	Comments
Chain of Custody forms have been completed.	✓	
Initial Calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
Continuing calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
Correct analytical sequence followed (CRI, ICSA,etc.) and criteria* met.	✓	
All blank criteria* met. ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
IDLs, Linear Range and IECs current.	✓	
LSC, MS,MD, MSD (if required) meet acceptance limits*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
Serial dilution analyzed once per SDG or 20 samples.	✓	
Post digestion spike performed as required.	✓	
Flagging correct.	✓	
All raw data submitted as per deliverable requiements.	✓	
Prep batch completed with proper information.	✓	
All deviations, prep and anlaysis methods noted in NCMs.	✓	

* Reference SOPs for appropriate acceptance criteria.

This data meets the requirements of the Metals SOP's, unless otherwise documented in a NCM.

[signature] Date 12/24/09

Authorizing Signature (2nd level Review)

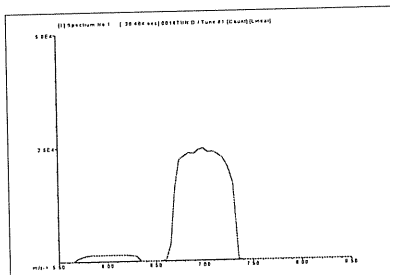
TestAmerica Form #MEF01105.CT

6020 Tune Check Sample

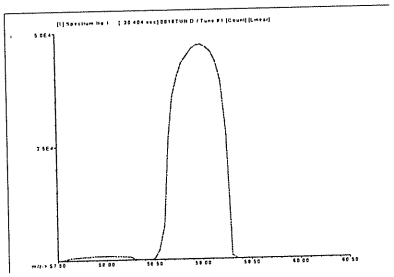
Data File: C:\ICPCHEM\1\DATA\09L23k00.B\0016TUN.D
Date Acquired: Dec 23 2009 10:06 am
Operator:
Sample Name: ITUNE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\TN_6020.M

QC Tune Summary:
Pass

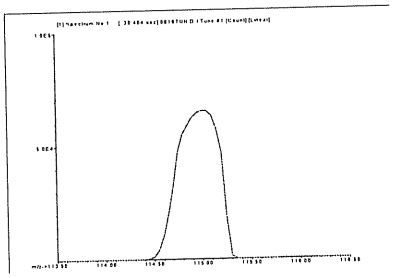
RSD% Element	Actual	Required	Flag
7 Li	0.68	5.00	0
59 Co	0.98	5.00	
115 In	0.42	5.00	
205 Tl	1.09	5.00	



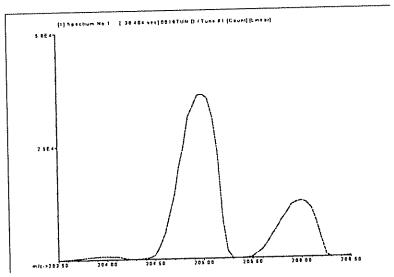
7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 204.95
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#
Date Acquired:	Dec 23 2009 11:20 am
Acq. Method:	STL5.M
Operator:	
Sample Name:	0
Misc Info:	
Vial Number:	2101
Current Method:	C:\ICPCHEM\1\METHODS\STL5.M
Calibration File:	C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update:	Dec 23 2009 10:54 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	21	36.49
9	Be	45	1	11	86.61
11	B	45	1	1672	6.88
23	Na	45	1	44390	10.93
24	Mg	45	1	3654	25.49
27	Al	45	1	1914	29.99
29	Si	45	1	3983	6.80
34	S	45	1	5921	4.39
39	K	45	1	60185	2.36
44	Ca	45	1	810	16.65
47	Ti	45	1	58	23.36
51	V	45	1	297	35.88
53	Cr	45	1	213	17.76
55	Mn	45	1	1007	12.94
57	Fe	45	1	1886	19.09
59	Co	89	1	1317	11.53
60	Ni	89	1	224	25.66
63	Cu	89	1	1105	8.10
66	Zn	89	1	241	11.52
75	As	89	1	59	20.44
78	Se	89	1	70	16.90
90	Zr	89	1	941	5.97
95	Mo	89	1	1981	11.97
107	Ag	115	1	454	32.51
111	Cd	115	1	76	32.70
118	Sn	115	1	1420	12.21
121	Sb	115	1	1403	0.96
137	Ba	115	1	57	62.08
205	Tl	209	1	3670	6.23
207	Pb	209	1	418	21.40
232	Th	209	1	5518	1.15
238	U	209	1	730	32.11

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	775171	1.15
89	Y	1	2551189	1.16
115	In	1	2760750	0.59
209	Bi	1	3514494	1.13

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\09L23100.B\002CALS.D\002CALS.D#
Date Acquired:	Dec 23 2009 11:23 am
Acq. Method:	STL5.M
Operator:	
Sample Name:	50
Misc Info:	
Vial Number:	2102
Current Method:	C:\ICPCHEM\1\METHODS\STL5.M
Calibration File:	C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update:	Dec 23 2009 11:21 am
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	13640	1.12
9	Be	45	1	11134	0.73
11	B	45	1	7007	3.49
23	Na	45	1	1180336	1.83
24	Mg	45	1	579717	1.76
27	Al	45	1	514631	2.01
29	Si	45	1	4474	5.10
34	S	45	1	8256	4.55
39	K	45	1	605950	9.96
44	Ca	45	1	27660	2.73
47	Ti	45	1	16199	2.24
51	V	45	1	437075	1.40
53	Cr	45	1	63601	1.14
55	Mn	45	1	330419	1.58
57	Fe	45	1	55881	2.62
59	Co	89	1	770308	0.39
60	Ni	89	1	201013	0.50
63	Cu	89	1	520905	0.40
66	Zn	89	1	84448	0.63
75	As	89	1	52387	0.81
78	Se	89	1	5129	3.48
90	Zr	89	1	518576	2.78
95	Mo	89	1	196414	0.55
107	Ag	115	1	657754	0.66
111	Cd	115	1	100334	0.46
118	Sn	115	1	197654	0.88
121	Sb	115	1	416926	3.77
137	Ba	115	1	93290	1.12
205	Tl	209	1	964714	3.64
207	Pb	209	1	250595	2.59
232	Th	209	1	1057188	1.17
238	U	209	1	1077282	1.85

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	784246	1.54	775171	101.2	60 - 120	
89	Y	1	2608593	0.56	2551189	102.3	60 - 120	
115	In	1	2805962	0.93	2760750	101.6	60 - 120	
209	Bi	1	3565406	2.55	3514494	101.4	60 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\09L23100.B\003CALS.D\003CALS.D#
Date Acquired:	Dec 23 2009 11:27 am
Acq. Method:	STL5.M
Operator:	
Sample Name:	100
Misc Info:	
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\STL5.M
Calibration File:	C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update:	Dec 23 2009 11:25 am
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	27351	0.99
9	Be	45	1	22205	1.13
11	B	45	1	10841	0.66
23	Na	45	1	2318819	0.73
24	Mg	45	1	1087769	1.63
27	Al	45	1	884163	1.37
29	Si	45	1	5376	1.03
34	S	45	1	18266	3.00
39	K	45	1	1092675	1.05
44	Ca	45	1	56161	1.27
47	Ti	45	1	32279	2.39
51	V	45	1	892808	0.41
53	Cr	45	1	128121	1.13
55	Mn	45	1	667104	0.92
57	Fe	45	1	111221	1.68
59	Co	89	1	1552284	1.54
60	Ni	89	1	405391	0.94
63	Cu	89	1	1062591	0.44
66	Zn	89	1	171658	1.20
75	As	89	1	105236	1.04
78	Se	89	1	10117	1.16
90	Zr	89	1	986929	0.02
95	Mo	89	1	390140	0.63
107	Ag	115	1	1301499	0.91
111	Cd	115	1	201343	0.64
118	Sn	115	1	398601	0.36
121	Sb	115	1	879049	2.37
137	Ba	115	1	188682	0.93
205	Tl	209	1	1924795	1.56
207	Pb	209	1	503528	0.92
232	Th	209	1	2150824	1.32
238	U	209	1	2155980	0.72

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	791519	1.49	775171	102.1	60 - 120	
89	Y	1	2629943	1.02	2551189	103.1	60 - 120	
115	In	1	2804721	0.38	2760750	101.6	60 - 120	
209	Bi	1	3501934	1.53	3514494	99.6	60 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures 0

0 :ISTD Failures 0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\09L23100.B\004CALS.D\004CALS.D#
Date Acquired:	Dec 23 2009 11:30 am
Acq. Method:	STL5.M
Operator:	
Sample Name:	500
Misc Info:	
Vial Number:	2104
Current Method:	C:\ICPCHEM\1\METHODS\STL5.M
Calibration File:	C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update:	Dec 23 2009 11:28 am
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	45	1	135861	1.15
9	Be	45	1	108901	0.66
11	B	45	1	43927	1.25
23	Na	45	1	11171350	1.08
24	Mg	45	1	5176493	0.74
27	Al	45	1	4215600	1.23
29	Si	45	1	14914	0.85
34	S	45	1	56790	1.76
39	K	45	1	5076287	1.12
44	Ca	45	1	277128	1.41
47	Ti	45	1	164090	1.24
51	V	45	1	4231567	0.66
53	Cr	45	1	628641	0.91
55	Mn	45	1	3169516	0.64
57	Fe	45	1	540099	0.89
59	Co	89	1	7303332	0.25
60	Ni	89	1	1938753	0.85
63	Cu	89	1	4856150	0.43
66	Zn	89	1	816792	1.00
75	As	89	1	522312	0.51
78	Se	89	1	49270	0.86
90	Zr	89	1	4802026	0.24
95	Mo	89	1	1995990	0.45
107	Ag	115	1	5981197	1.10
111	Cd	115	1	980644	0.57
118	Sn	115	1	2068570	0.15
121	Sb	115	1	4522652	1.71
137	Ba	115	1	931408	0.39
205	Tl	209	1	8996789	1.05
207	Pb	209	1	2428832	1.31
232	Th	209	1	10306370	1.42
238	U	209	1	10185720	1.08

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	816370	1.18	775171	105.3	60 - 120	
89	Y	1	2604080	0.36	2551189	102.1	60 - 120	
115	In	1	2775306	0.15	2760750	100.5	60 - 120	
209	Bi	1	3429988	1.04	3514494	97.6	60 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\005_ICV.D\005_ICV.D#
Date Acquired: Dec 23 2009 11:34 am
Operator:
Sample Name: ICV
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 23 2009 11:31 am
Sample Type: 6-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
7 Li	45	1	87.92	ppb	1.21	75	117.2	90 - 110	Fail
9 Be	45	1	126.90	ppb	2.20	120	105.8	90 - 110	
11 B	45	1	200.60	ppb	0.90	200	100.3	90 - 110	
23 Na	45	1	2121.00	ppb	0.91	2000	106.1	90 - 110	
24 Mg	45	1	2626.00	ppb	0.90	2500	105.0	90 - 110	
27 Al	45	1	3701.00	ppb	1.57	3500	105.7	90 - 110	
29 Si	45	1	155.90	ppb	6.27	200	78.0	90 - 110	Fail
34 S	45	1	10700.00	ppb	2.52	10000	107.0	90 - 110	
39 K	45	1	4226.00	ppb	1.91	4000	105.7	90 - 110	
44 Ca	45	1	2541.00	ppb	1.66	2500	101.6	90 - 110	
47 Ti	45	1	198.60	ppb	0.95	200	99.3	90 - 110	
51 V	45	1	61.91	ppb	1.91	60	103.2	90 - 110	
53 Cr	45	1	58.02	ppb	0.79	60	96.7	90 - 110	
55 Mn	45	1	41.46	ppb	1.38	40	103.7	90 - 110	
57 Fe	45	1	979.90	ppb	1.26	1000	98.0	90 - 110	
59 Co	89	1	64.72	ppb	1.48	60	107.9	90 - 110	
60 Ni	89	1	62.05	ppb	0.63	60	103.4	90 - 110	
63 Cu	89	1	63.27	ppb	1.01	60	105.5	90 - 110	
66 Zn	89	1	62.38	ppb	0.64	60	104.0	90 - 110	
75 As	89	1	204.90	ppb	0.36	200	102.5	90 - 110	
78 Se	89	1	99.07	ppb	0.39	100	99.1	90 - 110	
90 Zr	89	1	161.80	ppb	1.50	165	98.1	90 - 110	
95 Mo	89	1	200.30	ppb	2.68	200	100.2	90 - 110	
107 Ag	115	1	63.25	ppb	0.35	60	105.4	90 - 110	
111 Cd	115	1	59.58	ppb	0.74	60	99.3	90 - 110	
118 Sn	115	1	192.60	ppb	0.21	200	96.3	90 - 110	
121 Sb	115	1	214.70	ppb	0.71	200	107.4	90 - 110	
137 Ba	115	1	57.49	ppb	0.69	60	95.8	90 - 110	
205 Tl	209	1	191.70	ppb	0.99	200	95.9	90 - 110	
207 Pb	209	1	201.80	ppb	0.47	200	100.9	90 - 110	
232 Th	209	1	76.27	ppb	1.71	75	101.7	90 - 110	
238 U	209	1	74.46	ppb	1.50	75	99.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	785963	1.69	775171	101.4	60 - 120	
89 Y	1	2578069	0.68	2551189	101.1	60 - 120	
115 In	1	2791680	0.32	2760750	101.1	60 - 120	
209 Bi	1	3520846	1.50	3514494	100.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

2 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\006_ICB.D\006_ICB.D#
Date Acquired: Dec 23 2009 11:45 am
Operator:
Sample Name: ICB
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 23 2009 11:31 am
Sample Type: 6-ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
7 Li	45	1	0.05	ppb	45.83	1.00	
9 Be	45	1	0.11	ppb	41.60	0.50	
11 B	45	1	-1.75	ppb	53.58	15.00	
23 Na	45	1	4.21	ppb	66.44	50.00	
24 Mg	45	1	2.30	ppb	54.02	50.00	
27 Al	45	1	3.27	ppb	60.78	25.00	
29 Si	45	1	-6.45	ppb	34.84	50.00	
34 S	45	1	200.80	ppb	82.17	1000.00	
39 K	45	1	6.36	ppb	58.27	50.00	
44 Ca	45	1	5.89	ppb	28.66	50.00	
47 Ti	45	1	0.13	ppb	19.46	3.00	
51 V	45	1	0.04	ppb	96.69	0.50	
53 Cr	45	1	0.02	ppb	215.67	1.00	
55 Mn	45	1	-0.03	ppb	131.48	1.20	
57 Fe	45	1	4.00	ppb	45.03	25.00	
59 Co	89	1	0.05	ppb	59.02	0.50	
60 Ni	89	1	-0.01	ppb	187.25	0.50	
63 Cu	89	1	-0.13	ppb	28.50	1.00	
66 Zn	89	1	-0.43	ppb	8.36	5.00	
75 As	89	1	0.06	ppb	23.12	0.50	
78 Se	89	1	-0.15	ppb	36.89	1.00	
90 Zr	89	1	-0.07	ppb	41.04	1.50	
95 Mo	89	1	0.28	ppb	8.38	3.00	
107 Ag	115	1	0.01	ppb	133.56	0.50	
111 Cd	115	1	0.04	ppb	65.75	0.50	
118 Sn	115	1	0.67	ppb	13.12	3.00	
121 Sb	115	1	0.66	ppb	3.24	0.80	
137 Ba	115	1	0.02	ppb	155.96	0.50	
205 Tl	209	1	-0.16	ppb	21.48	0.70	
207 Pb	209	1	0.04	ppb	108.70	0.50	
232 Th	209	1	1.01	ppb	3.85	1.00	Fail
238 U	209	1	0.03	ppb	72.04	0.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	745425	1.35	775171	96.2	60 - 120	
89 Y	1	2496793	0.89	2551189	97.9	60 - 120	
115 In	1	2732309	1.33	2760750	99.0	60 - 120	
209 Bi	1	3538832	1.63	3514494	100.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\007_LCS.D\007_LCS.D#
Date Acquired: Dec 23 2009 11:48 am
Acq. Method: STL5.M
Operator:
Sample Name: CRI
Misc Info:
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: 6-LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
7 Li	45	1	0.63	8.86	1	126.3	70 - 130	
9 Be	45	1	0.57	27.14	1	113.9	70 - 130	
11 B	45	1	16.01	9.83	15	106.7	70 - 130	
23 Na	45	1	58.50	2.57	50	117.0	70 - 130	
24 Mg	45	1	61.09	1.66	50	122.2	70 - 130	
27 Al	45	1	36.41	4.63	26	142.8	70 - 130	Fail
39 K	45	1	71.71	3.49	50	143.4	70 - 130	Fail
44 Ca	45	1	54.92	1.60	50	109.8	70 - 130	
47 Ti	45	1	2.86	6.81	3	114.5	70 - 130	
51 V	45	1	0.54	7.44	1	108.4	70 - 130	
53 Cr	45	1	0.49	7.17	1	98.5	70 - 130	
55 Mn	45	1	0.47	2.82	1	93.3	70 - 130	
57 Fe	45	1	27.68	3.26	25	110.7	70 - 130	
59 Co	89	1	0.60	6.51	1	120.3	70 - 130	
60 Ni	89	1	0.52	0.53	1	103.7	70 - 130	
63 Cu	89	1	0.42	11.82	1	83.1	70 - 130	
66 Zn	89	1	4.67	3.76	5	103.7	70 - 130	
75 As	89	1	0.56	6.40	1	111.6	70 - 130	
78 Se	89	1	0.92	10.39	1	92.0	70 - 130	
90 Zr	89	1	3.92	2.68	1	783.4	70 - 130	Fail
95 Mo	89	1	2.73	3.83	3	109.3	70 - 130	
107 Ag	115	1	0.54	3.43	1	107.2	70 - 130	
111 Cd	115	1	0.54	12.28	1	108.2	70 - 130	
118 Sn	115	1	2.74	2.82	3	109.6	70 - 130	
121 Sb	115	1	0.85	9.73	1	169.3	70 - 130	Fail
137 Ba	115	1	0.50	5.40	1	100.5	70 - 130	
205 Tl	209	1	0.32	12.34	1	63.8	70 - 130	Fail
207 Pb	209	1	0.53	9.70	1	105.6	70 - 130	
232 Th	209	1	0.93	5.61	1	185.4	70 - 130	Fail
238 U	209	1	0.51	5.87	1	102.2	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	758804	1.15	775171	97.9	60 - 120	
89 Y	1	2509789	0.73	2551189	98.4	60 - 120	
115 In	1	2756066	0.60	2760750	99.8	60 - 120	
209 Bi	1	3604660	1.23	3514494	102.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

6 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\008ICSA.D\008ICSA.D#
Date Acquired: Dec 23 2009 11:52 am
Acq. Method: STL5.M
Operator:
Sample Name: ICSA
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: 6-ICSA
Dilution Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
7	Li	45	1	0.25 ppb	41.65	1.00	
9	Be	45	1	0.03 ppb	88.17	0.50	
11	B	45	1	0.59 ppb	242.25	15.00	
23	Na	45	1	50850.00 ppb	0.76	#########	
24	Mg	45	1	20010.00 ppb	0.88	#########	
27	Al	45	1	20210.00 ppb	1.33	62500.00	
29	Si	45	1	-9.97 ppb	133.29	50.00	
34	S	45	1	21050.00 ppb	1.84	21000.00	Fail
39	K	45	1	20340.00 ppb	1.80	#########	
44	Ca	45	1	52330.00 ppb	1.43	#########	
47	Ti	45	1	401.80 ppb	1.54	12501.00	
51	V	45	1	0.07 ppb	47.57	0.50	
53	Cr	45	1	0.47 ppb	13.61	1.00	
55	Mn	45	1	0.24 ppb	23.02	1.20	
57	Fe	45	1	44820.00 ppb	0.92	65000.00	
59	Co	89	1	0.01 ppb	280.21	0.50	
60	Ni	89	1	0.33 ppb	4.31	0.50	
63	Cu	89	1	-0.01 ppb	159.20	1.00	
66	Zn	89	1	0.74 ppb	14.79	5.00	
75	As	89	1	0.07 ppb	38.88	0.50	
78	Se	89	1	0.15 ppb	68.42	1.00	
90	Zr	89	1	4.14 ppb	10.65	1.50	Fail
95	Mo	89	1	402.30 ppb	1.01	12501.00	
107	Ag	115	1	0.17 ppb	124.01	0.50	
111	Cd	115	1	0.22 ppb	9.00	0.50	
118	Sn	115	1	0.31 ppb	14.72	3.00	
121	Sb	115	1	0.39 ppb	8.84	0.80	
137	Ba	115	1	0.06 ppb	39.80	0.50	
205	Tl	209	1	-0.10 ppb	29.02	0.70	
207	Pb	209	1	0.12 ppb	17.12	0.50	
232	Th	209	1	0.45 ppb	8.55	1.00	
238	U	209	1	0.03 ppb	59.48	0.50	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	782732	2.66	775171	101.0	60 - 120	
89	Y	1	2519685	1.28	2551189	98.8	60 - 120	
115	In	1	2628410	1.31	2760750	95.2	60 - 120	
209	Bi	1	3189596	1.10	3514494	90.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

2 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\009ICSB.D\009ICSB.D#
Date Acquired: Dec 23 2009 11:55 am
Acq. Method: STL5.M
Operator:
Sample Name: ICSAB
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	45	1	49.17	2.50	50	98.3	80 - 120	
23 Na	45	1	51080.00	1.82	50000	102.2	80 - 120	
24 Mg	45	1	20060.00	1.43	20000	100.3	80 - 120	
27 Al	45	1	20450.00	1.60	20000	102.3	80 - 120	
39 K	45	1	20570.00	2.10	20000	102.9	80 - 120	
44 Ca	45	1	52630.00	1.61	60000	87.7	80 - 120	
47 Ti	45	1	399.50	1.66	400	99.9	80 - 120	
51 V	45	1	50.90	1.28	50	101.8	80 - 120	
53 Cr	45	1	47.55	1.89	50	95.1	80 - 120	
55 Mn	45	1	49.16	2.00	50	98.3	80 - 120	
57 Fe	45	1	44800.00	1.21	50000	89.6	80 - 120	
59 Co	89	1	51.80	0.59	50	103.6	80 - 120	
60 Ni	89	1	97.79	0.52	100	97.8	80 - 120	
63 Cu	89	1	49.26	0.13	50	98.5	80 - 120	
66 Zn	89	1	95.64	0.39	100	95.6	80 - 120	
75 As	89	1	10.21	1.18	10	102.1	80 - 120	
78 Se	89	1	4.66	9.82	5	93.3	80 - 120	
95 Mo	89	1	402.10	1.73	400	100.5	80 - 120	
107 Ag	115	1	20.00	0.49	20	100.0	80 - 120	
111 Cd	115	1	94.52	0.61	100	94.5	80 - 120	
121 Sb	115	1	63.38	0.57	60	105.6	80 - 120	
137 Ba	115	1	43.70	0.57	50	87.4	80 - 120	
205 Tl	209	1	9.48	1.56	10	94.8	80 - 120	
207 Pb	209	1	5.02	0.98	5	100.3	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	803591	2.20	775171	103.7	60 - 120	
89 Y	1	2559995	0.27	2551189	100.3	60 - 120	
115 In	1	2652697	0.44	2760750	96.1	60 - 120	
209 Bi	1	3098689	1.26	3514494	88.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\010_CCV.D\010_CCV.D#
Date Acquired: Dec 23 2009 11:59 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 23 2009 11:31 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
7 Li	45	1	81.29	ppb	0.15	75	108.4	90 - 110	
9 Be	45	1	118.60	ppb	2.32	120	98.8	90 - 110	
11 B	45	1	187.30	ppb	3.54	200	93.7	90 - 110	
23 Na	45	1	2081.00	ppb	1.71	2000	104.1	90 - 110	
24 Mg	45	1	2581.00	ppb	1.57	2500	103.2	90 - 110	
27 Al	45	1	3691.00	ppb	1.58	3500	105.5	90 - 110	
29 Si	45	1	136.90	ppb	4.33	200	68.5	90 - 110	Fail
34 S	45	1	10600.00	ppb	2.05	10000	106.0	90 - 110	
39 K	45	1	4165.00	ppb	0.74	4000	104.1	90 - 110	
44 Ca	45	1	2513.00	ppb	0.44	2500	100.5	90 - 110	
47 Ti	45	1	196.40	ppb	1.44	200	98.2	90 - 110	
51 V	45	1	60.40	ppb	1.31	60	100.7	90 - 110	
53 Cr	45	1	56.86	ppb	1.56	60	94.8	90 - 110	
55 Mn	45	1	40.31	ppb	1.74	40	100.8	90 - 110	
57 Fe	45	1	962.40	ppb	1.74	1000	96.2	90 - 110	
59 Co	89	1	64.41	ppb	0.41	60	107.4	90 - 110	
60 Ni	89	1	61.31	ppb	0.73	60	102.2	90 - 110	
63 Cu	89	1	62.86	ppb	0.41	60	104.8	90 - 110	
66 Zn	89	1	61.92	ppb	0.75	60	103.2	90 - 110	
75 As	89	1	204.30	ppb	0.51	200	102.2	90 - 110	
78 Se	89	1	98.26	ppb	1.19	100	98.3	90 - 110	
90 Zr	89	1	163.10	ppb	0.70	165	98.8	90 - 110	
95 Mo	89	1	198.20	ppb	0.90	200	99.1	90 - 110	
107 Ag	115	1	63.23	ppb	0.15	60	105.4	90 - 110	
111 Cd	115	1	59.53	ppb	0.98	60	99.2	90 - 110	
118 Sn	115	1	194.50	ppb	0.27	200	97.3	90 - 110	
121 Sb	115	1	205.90	ppb	0.53	200	103.0	90 - 110	
137 Ba	115	1	57.72	ppb	1.19	60	96.2	90 - 110	
205 Tl	209	1	192.20	ppb	2.02	200	96.1	90 - 110	
207 Pb	209	1	204.40	ppb	0.77	200	102.2	90 - 110	
232 Th	209	1	72.33	ppb	1.50	75	96.4	90 - 110	
238 U	209	1	73.74	ppb	1.89	75	98.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	844102	1.38	775171	108.9	60 - 120	
89 Y	1	2687351	0.25	2551189	105.3	60 - 120	
115 In	1	2839341	0.91	2760750	102.8	60 - 120	
209 Bi	1	3468483	2.07	3514494	98.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\011_CCB.D\011_CCB.D#
Date Acquired: Dec 23 2009 12:05 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal Update: Dec 23 2009 11:31 am
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
7 Li	45	1	0.082	ppb	67.54	1.00	
9 Be	45	1	0.112	ppb	85.05	0.50	
11 B	45	1	-3.333	ppb	48.22	15.00	
23 Na	45	1	12.420	ppb	59.61	50.00	
24 Mg	45	1	5.531	ppb	64.76	50.00	
27 Al	45	1	6.806	ppb	64.06	25.00	
29 Si	45	1	-10.450	ppb	37.39	50.00	
34 S	45	1	336.400	ppb	16.54	1000.00	
39 K	45	1	11.200	ppb	51.52	50.00	
44 Ca	45	1	13.370	ppb	69.27	50.00	
47 Ti	45	1	0.210	ppb	36.43	3.00	
51 V	45	1	0.046	ppb	82.65	0.50	
53 Cr	45	1	0.021	ppb	226.57	1.00	
55 Mn	45	1	0.009	ppb	511.91	1.20	
57 Fe	45	1	10.810	ppb	53.27	25.00	
59 Co	89	1	0.054	ppb	68.61	0.50	
60 Ni	89	1	0.006	ppb	922.57	0.50	
63 Cu	89	1	-0.124	ppb	30.72	1.00	
66 Zn	89	1	-0.384	ppb	14.81	5.00	
75 As	89	1	0.073	ppb	81.73	0.50	
78 Se	89	1	0.082	ppb	112.99	1.00	
90 Zr	89	1	0.005	ppb	1090.90	1.50	
95 Mo	89	1	0.724	ppb	9.99	3.00	
107 Ag	115	1	0.002	ppb	320.50	0.50	
111 Cd	115	1	0.047	ppb	83.32	0.50	
118 Sn	115	1	0.890	ppb	7.50	3.00	
121 Sb	115	1	0.554	ppb	16.20	0.80	
137 Ba	115	1	0.023	ppb	128.45	0.50	
205 Tl	209	1	-0.115	ppb	42.58	0.70	
207 Pb	209	1	0.067	ppb	75.25	0.50	
232 Th	209	1	0.371	ppb	14.07	1.00	
238 U	209	1	0.044	ppb	82.67	0.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	797380	0.68	775171	102.9	60 - 120	
89 Y	1	2607606	1.43	2551189	102.2	60 - 120	
115 In	1	2816379	1.17	2760750	102.0	60 - 120	
209 Bi	1	3505863	1.01	3514494	99.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\012SMPL.D\012SMPL.D#
Date Acquired: Dec 23 2009 12:09 pm
Acq. Method: STL5.M
Operator:
Sample Name: mb 220-34494/1-a
Misc Info:
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.20	0.20	ppb	19.40	550	
9 Be	45	1	0.01	0.01	ppb	276.92	10000	
11 B	45	1	-2.04	-2.04	ppb	43.53	550	
23 Na	45	1	16.34	16.34	ppb	58.15	300000	
24 Mg	45	1	4.83	4.83	ppb	98.63	125000	
27 Al	45	1	5.74	5.74	ppb	101.01	62500	
29 Si	45	1	27.63	27.63	ppb	25.44	12500	
34 S	45	1	299.10	299.10	ppb	13.75	21000	
39 K	45	1	14.83	14.83	ppb	41.23	125000	
44 Ca	45	1	12.04	12.04	ppb	89.62	125000	
47 Ti	45	1	0.15	0.15	ppb	61.95	12500	
51 V	45	1	0.10	0.10	ppb	51.58	12500	
53 Cr	45	1	0.19	0.19	ppb	22.39	12500	
55 Mn	45	1	-0.07	-0.07	ppb	90.02	12500	
57 Fe	45	1	9.96	9.96	ppb	81.53	65000	
59 Co	89	1	0.00	0.00	ppb	3964.20	12500	
60 Ni	89	1	0.00	0.00	ppb	1773.10	2500	
63 Cu	89	1	0.23	0.23	ppb	20.65	2500	
66 Zn	89	1	-0.10	-0.10	ppb	37.49	2500	
75 As	89	1	0.06	0.06	ppb	104.05	12500	
78 Se	89	1	0.10	0.10	ppb	234.45	10000	
90 Zr	89	1	0.12	0.12	ppb	38.49	550	
95 Mo	89	1	0.36	0.36	ppb	15.44	12500	
107 Ag	115	1	0.02	0.02	ppb	41.67	1000	
111 Cd	115	1	0.05	0.05	ppb	99.96	10000	
118 Sn	115	1	0.43	0.43	ppb	15.38	2500	
121 Sb	115	1	0.21	0.21	ppb	32.15	2500	
137 Ba	115	1	0.03	0.03	ppb	238.71	10000	
205 Tl	209	1	-0.06	-0.06	ppb	83.53	12500	
207 Pb	209	1	0.13	0.13	ppb	58.95	12500	
232 Th	209	1	0.07	0.07	ppb	58.54	550	
238 U	209	1	0.03	0.03	ppb	145.52	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	809250	1.53	775171	104.4	60 - 120	
89 Y	1	2643026	0.81	2551189	103.6	60 - 120	
115 In	1	2829643	1.03	2760750	102.5	60 - 120	
209 Bi	1	3547442	0.54	3514494	100.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\013SMPL.D\013SMPL.D#
Date Acquired: Dec 23 2009 12:13 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-c-14-b
Misc Info:
Vial Number: 2302
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.37	0.37	ppb	17.13	550	
9 Be	45	1	0.04	0.04	ppb	106.37	10000	
11 B	45	1	-4.57	-4.57	ppb	15.39	550	
23 Na	45	1	15.68	15.68	ppb	36.42	300000	
24 Mg	45	1	3.47	3.47	ppb	80.29	125000	
27 Al	45	1	4.23	4.23	ppb	77.09	62500	
29 Si	45	1	-1.25	-1.25	ppb	395.52	12500	
34 S	45	1	333.80	333.80	ppb	39.72	21000	
39 K	45	1	13.94	13.94	ppb	42.17	125000	
44 Ca	45	1	10.93	10.93	ppb	53.19	125000	
47 Ti	45	1	0.11	0.11	ppb	46.75	12500	
51 V	45	1	0.16	0.16	ppb	21.23	12500	
53 Cr	45	1	0.36	0.36	ppb	3.70	12500	
55 Mn	45	1	-0.09	-0.09	ppb	42.53	12500	
57 Fe	45	1	7.13	7.13	ppb	73.42	65000	
59 Co	89	1	-0.01	-0.01	ppb	328.89	12500	
60 Ni	89	1	0.01	0.01	ppb	744.46	2500	
63 Cu	89	1	0.06	0.06	ppb	39.34	2500	
66 Zn	89	1	-0.09	-0.09	ppb	82.90	2500	
75 As	89	1	0.06	0.06	ppb	68.55	12500	
78 Se	89	1	0.08	0.08	ppb	125.70	10000	
90 Zr	89	1	0.16	0.16	ppb	5.19	550	
95 Mo	89	1	0.24	0.24	ppb	19.45	12500	
107 Ag	115	1	0.04	0.04	ppb	11.27	1000	
111 Cd	115	1	0.03	0.03	ppb	79.22	10000	
118 Sn	115	1	0.35	0.35	ppb	17.83	2500	
121 Sb	115	1	0.18	0.18	ppb	20.10	2500	
137 Ba	115	1	0.02	0.02	ppb	154.53	10000	
205 Tl	209	1	0.02	0.02	ppb	127.69	12500	
207 Pb	209	1	0.11	0.11	ppb	50.81	12500	
232 Th	209	1	0.03	0.03	ppb	38.33	550	
238 U	209	1	0.02	0.02	ppb	123.25	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	834443	1.32	775171	107.6	60 - 120	
89 Y	1	2695540	0.36	2551189	105.7	60 - 120	
115 In	1	2885079	1.98	2760750	104.5	60 - 120	
209 Bi	1	3616555	0.24	3514494	102.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\014SMPL.D\014SMPL.D#
Date Acquired: Dec 23 2009 12:16 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-c-15-b
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.23	0.23	ppb	15.44	550	
9 Be	45	1	0.03	0.03	ppb	55.48	10000	
11 B	45	1	-5.72	-5.72	ppb	7.73	550	
23 Na	45	1	10.70	10.70	ppb	16.79	300000	
24 Mg	45	1	2.08	2.08	ppb	36.87	125000	
27 Al	45	1	2.49	2.49	ppb	37.39	62500	
29 Si	45	1	-3.16	-3.16	ppb	295.73	12500	
34 S	45	1	287.90	287.90	ppb	5.15	21000	
39 K	45	1	9.50	9.50	ppb	18.79	125000	
44 Ca	45	1	5.23	5.23	ppb	51.06	125000	
47 Ti	45	1	0.08	0.08	ppb	58.43	12500	
51 V	45	1	0.17	0.17	ppb	4.58	12500	
53 Cr	45	1	0.40	0.40	ppb	12.60	12500	
55 Mn	45	1	-0.09	-0.09	ppb	9.27	12500	
57 Fe	45	1	5.77	5.77	ppb	23.66	65000	
59 Co	89	1	-0.03	-0.03	ppb	31.39	12500	
60 Ni	89	1	-0.01	-0.01	ppb	63.53	2500	
63 Cu	89	1	0.03	0.03	ppb	15.42	2500	
66 Zn	89	1	-0.13	-0.13	ppb	14.58	2500	
75 As	89	1	0.04	0.04	ppb	39.65	12500	
78 Se	89	1	-0.12	-0.12	ppb	55.43	10000	
90 Zr	89	1	0.05	0.05	ppb	18.47	550	
95 Mo	89	1	0.09	0.09	ppb	2.21	12500	
107 Ag	115	1	0.02	0.02	ppb	1.98	1000	
111 Cd	115	1	0.02	0.02	ppb	81.91	10000	
118 Sn	115	1	0.04	0.04	ppb	147.74	2500	
121 Sb	115	1	0.07	0.07	ppb	31.19	2500	
137 Ba	115	1	0.01	0.01	ppb	236.51	10000	
205 Tl	209	1	-0.03	-0.03	ppb	29.80	12500	
207 Pb	209	1	0.05	0.05	ppb	35.07	12500	
232 Th	209	1	-0.02	-0.02	ppb	32.33	550	
238 U	209	1	0.01	0.01	ppb	127.93	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	834385	0.87	775171	107.6	60 - 120	
89 Y	1	2709596	0.51	2551189	106.2	60 - 120	
115 In	1	2878443	0.52	2760750	104.3	60 - 120	
209 Bi	1	3593417	0.76	3514494	102.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\015SMPL.D\015SMPL.D#
Date Acquired: Dec 23 2009 12:20 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11066-c-16-b
Misc Info:
Vial Number: 2304
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.26	0.26	ppb	24.13	550	
9 Be	45	1	0.01	0.01	ppb	208.20	10000	
11 B	45	1	-5.26	-5.26	ppb	24.02	550	
23 Na	45	1	9.54	9.54	ppb	34.22	300000	
24 Mg	45	1	1.99	1.99	ppb	80.06	125000	
27 Al	45	1	2.66	2.66	ppb	82.06	62500	
29 Si	45	1	1.13	1.13	ppb	407.45	12500	
34 S	45	1	380.40	380.40	ppb	11.70	21000	
39 K	45	1	9.02	9.02	ppb	24.09	125000	
44 Ca	45	1	5.17	5.17	ppb	73.23	125000	
47 Ti	45	1	0.07	0.07	ppb	103.17	12500	
51 V	45	1	0.18	0.18	ppb	7.30	12500	
53 Cr	45	1	0.45	0.45	ppb	3.97	12500	
55 Mn	45	1	-0.10	-0.10	ppb	23.58	12500	
57 Fe	45	1	3.58	3.58	ppb	75.31	65000	
59 Co	89	1	-0.03	-0.03	ppb	59.09	12500	
60 Ni	89	1	-0.01	-0.01	ppb	331.96	2500	
63 Cu	89	1	0.49	0.49	ppb	2.90	2500	
66 Zn	89	1	-0.17	-0.17	ppb	12.49	2500	
75 As	89	1	0.05	0.05	ppb	69.26	12500	
78 Se	89	1	0.08	0.08	ppb	129.93	10000	
90 Zr	89	1	0.00	0.00	ppb	496.32	550	
95 Mo	89	1	0.08	0.08	ppb	42.50	12500	
107 Ag	115	1	0.02	0.02	ppb	33.15	1000	
111 Cd	115	1	0.01	0.01	ppb	118.94	10000	
118 Sn	115	1	0.00	0.00	ppb	2928.60	2500	
121 Sb	115	1	0.04	0.04	ppb	71.23	2500	
137 Ba	115	1	0.00	0.00	ppb	352.89	10000	
205 Tl	209	1	-0.07	-0.07	ppb	23.91	12500	
207 Pb	209	1	0.04	0.04	ppb	64.18	12500	
232 Th	209	1	-0.04	-0.04	ppb	41.38	550	
238 U	209	1	0.01	0.01	ppb	282.45	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	825659	0.70	775171	106.5	60 - 120	
89 Y	1	2672164	1.01	2551189	104.7	60 - 120	
115 In	1	2853733	0.47	2760750	103.4	60 - 120	
209 Bi	1	3590153	0.77	3514494	102.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\016SMPL.D\016SMPL.D#
Date Acquired: Dec 23 2009 12:23 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10994-a-1-a
Misc Info:
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	5.02	5.02	ppb	6.57	550	
9 Be	45	1	0.05	0.05	ppb	133.13	10000	
11 B	45	1	2.71	2.71	ppb	21.14	550	
23 Na	45	1	2,473.00	2473.00	ppb	0.44	300000	
24 Mg	45	1	661.30	661.30	ppb	0.20	125000	
27 Al	45	1	6.81	6.81	ppb	45.28	62500	
29 Si	45	1	852.20	852.20	ppb	0.98	12500	
34 S	45	1	2,602.00	2602.00	ppb	1.83	21000	
39 K	45	1	305.60	305.60	ppb	1.25	125000	
44 Ca	45	1	4,181.00	4181.00	ppb	0.68	125000	
47 Ti	45	1	0.14	0.14	ppb	60.50	12500	
51 V	45	1	0.22	0.22	ppb	14.23	12500	
53 Cr	45	1	0.42	0.42	ppb	13.20	12500	
55 Mn	45	1	0.00	0.00	ppb	3832.90	12500	
57 Fe	45	1	9.88	9.88	ppb	46.10	65000	
59 Co	89	1	-0.02	-0.02	ppb	128.45	12500	
60 Ni	89	1	0.01	0.01	ppb	194.81	2500	
63 Cu	89	1	115.00	115.00	ppb	1.51	2500	
66 Zn	89	1	2.10	2.10	ppb	2.42	2500	
75 As	89	1	0.55	0.55	ppb	10.79	12500	
78 Se	89	1	-0.02	-0.02	ppb	222.75	10000	
90 Zr	89	1	0.03	0.03	ppb	36.31	550	
95 Mo	89	1	0.18	0.18	ppb	29.82	12500	
107 Ag	115	1	0.02	0.02	ppb	26.75	1000	
111 Cd	115	1	0.02	0.02	ppb	116.61	10000	
118 Sn	115	1	-0.03	-0.03	ppb	24.44	2500	
121 Sb	115	1	0.08	0.08	ppb	65.24	2500	
137 Ba	115	1	22.56	22.56	ppb	1.16	10000	
205 Tl	209	1	-0.08	-0.08	ppb	55.13	12500	
207 Pb	209	1	0.09	0.09	ppb	46.09	12500	
232 Th	209	1	-0.02	-0.02	ppb	69.84	550	
238 U	209	1	0.36	0.36	ppb	11.52	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	842284	0.27	775171	108.7	60 - 120	
89 Y	1	2723643	0.51	2551189	106.8	60 - 120	
115 In	1	2948738	0.65	2760750	106.8	60 - 120	
209 Bi	1	3660760	2.00	3514494	104.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\017SMPL.D\017SMPL.D#
Date Acquired: Dec 23 2009 12:27 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11007-a-1-a
Misc Info:
Vial Number: 2306
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	2.83	2.83	ppb	16.12	550	
9 Be	45	1	0.04	0.04	ppb	95.49	10000	
11 B	45	1	-1.65	-1.65	ppb	23.92	550	
23 Na	45	1	2,094.00	2094.00	ppb	1.96	300000	
24 Mg	45	1	1,013.00	1013.00	ppb	1.37	125000	
27 Al	45	1	3.91	3.91	ppb	81.99	62500	
29 Si	45	1	837.00	837.00	ppb	2.83	12500	
34 S	45	1	2,255.00	2255.00	ppb	4.47	21000	
39 K	45	1	295.90	295.90	ppb	2.66	125000	
44 Ca	45	1	10,450.00	10450.00	ppb	1.52	125000	
47 Ti	45	1	0.10	0.10	ppb	81.55	12500	
51 V	45	1	0.21	0.21	ppb	10.29	12500	
53 Cr	45	1	0.37	0.37	ppb	10.60	12500	
55 Mn	45	1	0.02	0.02	ppb	132.90	12500	
57 Fe	45	1	14.30	14.30	ppb	30.87	65000	
59 Co	89	1	-0.02	-0.02	ppb	126.43	12500	
60 Ni	89	1	0.06	0.06	ppb	71.48	2500	
63 Cu	89	1	2.60	2.60	ppb	1.41	2500	
66 Zn	89	1	0.80	0.80	ppb	7.27	2500	
75 As	89	1	0.27	0.27	ppb	8.41	12500	
78 Se	89	1	-0.04	-0.04	ppb	120.12	10000	
90 Zr	89	1	0.00	0.00	ppb	498.72	550	
95 Mo	89	1	0.12	0.12	ppb	66.23	12500	
107 Ag	115	1	0.01	0.01	ppb	75.97	1000	
111 Cd	115	1	0.03	0.03	ppb	118.51	10000	
118 Sn	115	1	-0.10	-0.10	ppb	15.38	2500	
121 Sb	115	1	0.03	0.03	ppb	178.93	2500	
137 Ba	115	1	34.74	34.74	ppb	1.07	10000	
205 Tl	209	1	-0.11	-0.11	ppb	31.89	12500	
207 Pb	209	1	0.07	0.07	ppb	42.39	12500	
232 Th	209	1	-0.05	-0.05	ppb	41.57	550	
238 U	209	1	1.02	1.02	ppb	1.93	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	845297	0.74	775171	109.0	60 - 120	
89 Y	1	2715487	0.71	2551189	106.4	60 - 120	
115 In	1	2899500	0.94	2760750	105.0	60 - 120	
209 Bi	1	3658644	0.44	3514494	104.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\018SMPL.D\018SMPL.D#
Date Acquired: Dec 23 2009 12:30 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11008-a-1-a
Misc Info:
Vial Number: 2307
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	80.62	80.62	ppb	2.38	550	
9 Be	45	1	0.01	0.01	ppb	75.76	10000	
11 B	45	1	32.65	32.65	ppb	2.66	550	
23 Na	45	1	33,640.00	33640.00	ppb	2.18	300000	
24 Mg	45	1	1,801.00	1801.00	ppb	2.04	125000	
27 Al	45	1	2.98	2.98	ppb	77.57	62500	
29 Si	45	1	797.20	797.20	ppb	4.23	12500	
34 S	45	1	1,513.00	1513.00	ppb	10.27	21000	
39 K	45	1	616.90	616.90	ppb	2.08	125000	
44 Ca	45	1	8,069.00	8069.00	ppb	2.12	125000	
47 Ti	45	1	0.06	0.06	ppb	107.70	12500	
51 V	45	1	0.14	0.14	ppb	11.01	12500	
53 Cr	45	1	0.32	0.32	ppb	12.26	12500	
55 Mn	45	1	10.64	10.64	ppb	2.25	12500	
57 Fe	45	1	274.10	274.10	ppb	3.12	65000	
59 Co	89	1	-0.03	-0.03	ppb	50.66	12500	
60 Ni	89	1	0.16	0.16	ppb	9.39	2500	
63 Cu	89	1	2.76	2.76	ppb	1.48	2500	
66 Zn	89	1	2.55	2.55	ppb	2.98	2500	
75 As	89	1	0.12	0.12	ppb	38.63	12500	
78 Se	89	1	-0.01	-0.01	ppb	431.60	10000	
90 Zr	89	1	0.03	0.03	ppb	13.68	550	
95 Mo	89	1	0.03	0.03	ppb	113.25	12500	
107 Ag	115	1	0.01	0.01	ppb	36.84	1000	
111 Cd	115	1	0.01	0.01	ppb	174.42	10000	
118 Sn	115	1	-0.13	-0.13	ppb	18.67	2500	
121 Sb	115	1	-0.01	-0.01	ppb	212.03	2500	
137 Ba	115	1	823.60	823.60	ppb	1.37	10000	
205 Tl	209	1	-0.15	-0.15	ppb	11.82	12500	
207 Pb	209	1	1.22	1.22	ppb	3.03	12500	
232 Th	209	1	-0.04	-0.04	ppb	33.20	550	
238 U	209	1	0.01	0.01	ppb	300.32	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	835653	2.77	775171	107.8	60 - 120	
89 Y	1	2675990	0.42	2551189	104.9	60 - 120	
115 In	1	2841512	0.79	2760750	102.9	60 - 120	
209 Bi	1	3457483	1.24	3514494	98.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\019SMPL.D\019SMPL.D#
Date Acquired: Dec 23 2009 12:34 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11009-a-1-a
Misc Info:
Vial Number: 2308
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	4.24	4.24	ppb	3.12	550	
9 Be	45	1	-0.01	-0.01	ppb	273.42	10000	
11 B	45	1	1.59	1.59	ppb	108.56	550	
23 Na	45	1	2,169.00	2169.00	ppb	2.33	300000	
24 Mg	45	1	2,034.00	2034.00	ppb	2.16	125000	
27 Al	45	1	2.03	2.03	ppb	59.81	62500	
29 Si	45	1	919.80	919.80	ppb	3.38	12500	
34 S	45	1	2,474.00	2474.00	ppb	5.35	21000	
39 K	45	1	348.30	348.30	ppb	3.65	125000	
44 Ca	45	1	7,723.00	7723.00	ppb	2.50	125000	
47 Ti	45	1	0.06	0.06	ppb	19.95	12500	
51 V	45	1	0.16	0.16	ppb	7.97	12500	
53 Cr	45	1	0.39	0.39	ppb	16.75	12500	
55 Mn	45	1	0.04	0.04	ppb	56.94	12500	
57 Fe	45	1	5.69	5.69	ppb	26.82	65000	
59 Co	89	1	-0.04	-0.04	ppb	36.15	12500	
60 Ni	89	1	0.00	0.00	ppb	278.36	2500	
63 Cu	89	1	1.30	1.30	ppb	1.35	2500	
66 Zn	89	1	4.34	4.34	ppb	0.97	2500	
75 As	89	1	0.36	0.36	ppb	14.69	12500	
78 Se	89	1	0.21	0.21	ppb	51.41	10000	
90 Zr	89	1	-0.03	-0.03	ppb	29.86	550	
95 Mo	89	1	0.09	0.09	ppb	10.70	12500	
107 Ag	115	1	0.01	0.01	ppb	46.68	1000	
111 Cd	115	1	0.01	0.01	ppb	82.53	10000	
118 Sn	115	1	-0.12	-0.12	ppb	21.56	2500	
121 Sb	115	1	0.01	0.01	ppb	33.42	2500	
137 Ba	115	1	23.74	23.74	ppb	0.81	10000	
205 Tl	209	1	-0.14	-0.14	ppb	6.26	12500	
207 Pb	209	1	0.05	0.05	ppb	23.76	12500	
232 Th	209	1	-0.06	-0.06	ppb	13.64	550	
238 U	209	1	0.12	0.12	ppb	5.90	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	864071	2.53	775171	111.5	60 - 120	
89 Y	1	2744335	0.98	2551189	107.6	60 - 120	
115 In	1	2913718	0.78	2760750	105.5	60 - 120	
209 Bi	1	3613860	1.18	3514494	102.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09L23100.B\020SMPL.D\020SMPL.D#
Date Acquired:	Dec 23 2009 12:37 pm
Acq. Method:	STL5.M
Operator:	
Sample Name:	220-11011-a-1-a
Misc Info:	
Vial Number:	2309
Current Method:	C:\ICPCHEM\1\METHODS\STL5.M
Calibration File:	C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update:	Dec 23 2009 11:31 am
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	20.70	20.70	ppb	1.23	550	
9 Be	45	1	0.04	0.04	ppb	250.17	10000	
11 B	45	1	14.44	14.44	ppb	7.05	550	
23 Na	45	1	13,080.00	13080.00	ppb	1.42	300000	
24 Mg	45	1	248.70	248.70	ppb	0.29	125000	
27 Al	45	1	5.13	5.13	ppb	91.44	62500	
29 Si	45	1	716.70	716.70	ppb	1.73	12500	
34 S	45	1	1,541.00	1541.00	ppb	7.22	21000	
39 K	45	1	294.70	294.70	ppb	1.58	125000	
44 Ca	45	1	3,071.00	3071.00	ppb	1.45	125000	
47 Ti	45	1	0.13	0.13	ppb	110.42	12500	
51 V	45	1	0.19	0.19	ppb	18.07	12500	
53 Cr	45	1	0.40	0.40	ppb	2.61	12500	
55 Mn	45	1	6.60	6.60	ppb	0.60	12500	
57 Fe	45	1	15.44	15.44	ppb	46.33	65000	
59 Co	89	1	-0.02	-0.02	ppb	213.16	12500	
60 Ni	89	1	0.00	0.00	ppb	10226.00	2500	
63 Cu	89	1	0.21	0.21	ppb	34.20	2500	
66 Zn	89	1	0.43	0.43	ppb	13.76	2500	
75 As	89	1	0.37	0.37	ppb	7.36	12500	
78 Se	89	1	0.06	0.06	ppb	176.62	10000	
90 Zr	89	1	0.01	0.01	ppb	354.46	550	
95 Mo	89	1	0.30	0.30	ppb	39.18	12500	
107 Ag	115	1	0.01	0.01	ppb	127.55	1000	
111 Cd	115	1	0.02	0.02	ppb	190.74	10000	
118 Sn	115	1	-0.13	-0.13	ppb	58.28	2500	
121 Sb	115	1	0.00	0.00	ppb	1442.70	2500	
137 Ba	115	1	159.70	159.70	ppb	0.49	10000	
205 Tl	209	1	-0.14	-0.14	ppb	32.71	12500	
207 Pb	209	1	0.05	0.05	ppb	92.98	12500	
232 Th	209	1	-0.05	-0.05	ppb	83.79	550	
238 U	209	1	0.12	0.12	ppb	25.52	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	849888	1.82	775171	109.6	60 - 120	
89 Y	1	2736890	0.45	2551189	107.3	60 - 120	
115 In	1	2899187	1.04	2760750	105.0	60 - 120	
209 Bi	1	3647720	0.91	3514494	103.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\021SMPL.D\021SMPL.D#
Date Acquired: Dec 23 2009 12:41 pm
Acq. Method: STL5.M
Operator:
Sample Name: lcs 220-34494/2-a
Misc Info:
Vial Number: 2310
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.30	0.30	ppb	18.74	550	
9 Be	45	1	11.06	11.06	ppb	2.04	10000	
11 B	45	1	101.00	101.00	ppb	1.06	550	
23 Na	45	1	3,272.00	3272.00	ppb	0.61	300000	
24 Mg	45	1	1,643.00	1643.00	ppb	0.75	125000	
27 Al	45	1	775.00	775.00	ppb	0.67	62500	
29 Si	45	1	105.70	105.70	ppb	10.18	12500	
34 S	45	1	4,604.00	4604.00	ppb	2.37	21000	
39 K	45	1	2,241.00	2241.00	ppb	1.77	125000	
44 Ca	45	1	3,072.00	3072.00	ppb	2.01	125000	
47 Ti	45	1	105.60	105.60	ppb	1.62	12500	
51 V	45	1	32.33	32.33	ppb	1.30	12500	
53 Cr	45	1	30.71	30.71	ppb	0.45	12500	
55 Mn	45	1	21.46	21.46	ppb	0.65	12500	
57 Fe	45	1	2,449.00	2449.00	ppb	0.79	65000	
59 Co	89	1	34.03	34.03	ppb	0.34	12500	
60 Ni	89	1	32.59	32.59	ppb	0.17	2500	
63 Cu	89	1	33.33	33.33	ppb	0.89	2500	
66 Zn	89	1	32.73	32.73	ppb	0.44	2500	
75 As	89	1	109.20	109.20	ppb	0.65	12500	
78 Se	89	1	53.66	53.66	ppb	1.98	10000	
90 Zr	89	1	106.20	106.20	ppb	1.25	550	
95 Mo	89	1	102.20	102.20	ppb	0.41	12500	
107 Ag	115	1	33.33	33.33	ppb	0.75	1000	
111 Cd	115	1	30.98	30.98	ppb	0.34	10000	
118 Sn	115	1	101.50	101.50	ppb	0.49	2500	
121 Sb	115	1	108.40	108.40	ppb	0.65	2500	
137 Ba	115	1	29.60	29.60	ppb	0.78	10000	
205 Tl	209	1	96.58	96.58	ppb	0.97	12500	
207 Pb	209	1	103.50	103.50	ppb	0.72	12500	
232 Th	209	1	0.16	0.16	ppb	8.28	550	
238 U	209	1	0.00	0.00	ppb	2370.00	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	852549	0.84	775171	110.0	60 - 120	
89 Y	1	2729900	0.44	2551189	107.0	60 - 120	
115 In	1	2915344	0.87	2760750	105.6	60 - 120	
209 Bi	1	3667854	0.66	3514494	104.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\022SMPL.D\022SMPL.D#
Date Acquired: Dec 23 2009 12:45 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	85.30	85.30	ppb	1.07	550	
9 Be	45	1	119.60	119.60	ppb	1.58	10000	
11 B	45	1	192.30	192.30	ppb	1.93	550	
23 Na	45	1	2,118.00	2118.00	ppb	1.53	300000	
24 Mg	45	1	2,654.00	2654.00	ppb	1.04	125000	
27 Al	45	1	3,739.00	3739.00	ppb	1.24	62500	
29 Si	45	1	140.30	140.30	ppb	6.19	12500	
34 S	45	1	11,040.00	11040.00	ppb	1.25	21000	
39 K	45	1	4,250.00	4250.00	ppb	2.29	125000	
44 Ca	45	1	2,553.00	2553.00	ppb	1.86	125000	
47 Ti	45	1	200.10	200.10	ppb	1.48	12500	
51 V	45	1	61.53	61.53	ppb	1.64	12500	
53 Cr	45	1	58.31	58.31	ppb	1.50	12500	
55 Mn	45	1	41.46	41.46	ppb	1.67	12500	
57 Fe	45	1	974.50	974.50	ppb	1.88	65000	
59 Co	89	1	64.31	64.31	ppb	0.41	12500	
60 Ni	89	1	61.25	61.25	ppb	0.59	2500	
63 Cu	89	1	62.33	62.33	ppb	0.59	2500	
66 Zn	89	1	61.38	61.38	ppb	0.76	2500	
75 As	89	1	201.50	201.50	ppb	0.25	12500	
78 Se	89	1	97.43	97.43	ppb	0.80	10000	
90 Zr	89	1	165.30	165.30	ppb	1.15	550	
95 Mo	89	1	197.10	197.10	ppb	1.31	12500	
107 Ag	115	1	63.43	63.43	ppb	1.02	1000	
111 Cd	115	1	59.17	59.17	ppb	1.23	10000	
118 Sn	115	1	193.30	193.30	ppb	1.50	2500	
121 Sb	115	1	204.30	204.30	ppb	0.36	2500	
137 Ba	115	1	57.22	57.22	ppb	0.52	10000	
205 Tl	209	1	194.40	194.40	ppb	1.95	12500	
207 Pb	209	1	207.60	207.60	ppb	1.70	12500	
232 Th	209	1	70.48	70.48	ppb	0.43	550	
238 U	209	1	74.36	74.36	ppb	1.71	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	819330	1.62	775171	105.7	60 - 120	
89 Y	1	2696560	0.58	2551189	105.7	60 - 120	
115 In	1	2860954	1.56	2760750	103.6	60 - 120	
209 Bi	1	3522790	2.76	3514494	100.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\023SMPL.D\023SMPL.D#
Date Acquired: Dec 23 2009 12:51 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2312
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.03	0.03	ppb	205.21	550	
9 Be	45	1	0.01	0.01	ppb	182.93	10000	
11 B	45	1	-1.47	-1.47	ppb	211.78	550	
23 Na	45	1	5.61	5.61	ppb	25.04	300000	
24 Mg	45	1	2.01	2.01	ppb	34.12	125000	
27 Al	45	1	2.32	2.32	ppb	29.16	62500	
29 Si	45	1	-17.71	-17.71	ppb	33.20	12500	
34 S	45	1	416.10	416.10	ppb	24.15	21000	
39 K	45	1	7.86	7.86	ppb	17.45	125000	
44 Ca	45	1	4.48	4.48	ppb	26.72	125000	
47 Ti	45	1	0.11	0.11	ppb	38.73	12500	
51 V	45	1	0.03	0.03	ppb	28.52	12500	
53 Cr	45	1	0.03	0.03	ppb	101.09	12500	
55 Mn	45	1	0.05	0.05	ppb	28.64	12500	
57 Fe	45	1	3.39	3.39	ppb	23.39	65000	
59 Co	89	1	0.03	0.03	ppb	7.94	12500	
60 Ni	89	1	-0.03	-0.03	ppb	17.58	2500	
63 Cu	89	1	-0.16	-0.16	ppb	7.09	2500	
66 Zn	89	1	-0.43	-0.43	ppb	1.70	2500	
75 As	89	1	0.05	0.05	ppb	10.53	12500	
78 Se	89	1	-0.20	-0.20	ppb	58.84	10000	
90 Zr	89	1	-0.05	-0.05	ppb	8.99	550	
95 Mo	89	1	0.37	0.37	ppb	10.50	12500	
107 Ag	115	1	0.00	0.00	ppb	84.52	1000	
111 Cd	115	1	0.01	0.01	ppb	87.40	10000	
118 Sn	115	1	1.10	1.10	ppb	9.30	2500	
121 Sb	115	1	0.38	0.38	ppb	11.86	2500	
137 Ba	115	1	0.03	0.03	ppb	89.60	10000	
205 Tl	209	1	-0.10	-0.10	ppb	5.87	12500	
207 Pb	209	1	0.05	0.05	ppb	13.47	12500	
232 Th	209	1	0.82	0.82	ppb	6.84	550	
238 U	209	1	0.01	0.01	ppb	65.13	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	773675	0.56	775171	99.8	60 - 120	
89 Y	1	2623523	1.66	2551189	102.8	60 - 120	
115 In	1	2810395	0.76	2760750	101.8	60 - 120	
209 Bi	1	3628409	1.72	3514494	103.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\024SMPL.D\024SMPL.D#
Date Acquired: Dec 23 2009 12:55 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11012-a-1-a
Misc Info:
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	3.67	3.67	ppb	4.09	550	
9 Be	45	1	0.01	0.01	ppb	414.52	10000	
11 B	45	1	-2.30	-2.30	ppb	42.55	550	
23 Na	45	1	3,187.00	3187.00	ppb	2.59	300000	
24 Mg	45	1	2,867.00	2867.00	ppb	1.31	125000	
27 Al	45	1	2.48	2.48	ppb	54.11	62500	
29 Si	45	1	981.20	981.20	ppb	3.51	12500	
34 S	45	1	3,078.00	3078.00	ppb	2.94	21000	
39 K	45	1	326.60	326.60	ppb	3.77	125000	
44 Ca	45	1	9,473.00	9473.00	ppb	2.24	125000	
47 Ti	45	1	0.11	0.11	ppb	25.72	12500	
51 V	45	1	0.14	0.14	ppb	14.89	12500	
53 Cr	45	1	0.31	0.31	ppb	21.86	12500	
55 Mn	45	1	-0.01	-0.01	ppb	107.28	12500	
57 Fe	45	1	5.59	5.59	ppb	32.59	65000	
59 Co	89	1	-0.03	-0.03	ppb	35.51	12500	
60 Ni	89	1	-0.02	-0.02	ppb	38.90	2500	
63 Cu	89	1	7.59	7.59	ppb	0.35	2500	
66 Zn	89	1	0.58	0.58	ppb	8.23	2500	
75 As	89	1	0.24	0.24	ppb	20.72	12500	
78 Se	89	1	-0.03	-0.03	ppb	573.26	10000	
90 Zr	89	1	0.44	0.44	ppb	3.60	550	
95 Mo	89	1	0.18	0.18	ppb	1.83	12500	
107 Ag	115	1	0.02	0.02	ppb	55.06	1000	
111 Cd	115	1	0.01	0.01	ppb	168.99	10000	
118 Sn	115	1	0.48	0.48	ppb	17.16	2500	
121 Sb	115	1	0.09	0.09	ppb	14.54	2500	
137 Ba	115	1	16.12	16.12	ppb	1.26	10000	
205 Tl	209	1	-0.10	-0.10	ppb	25.41	12500	
207 Pb	209	1	0.06	0.06	ppb	45.67	12500	
232 Th	209	1	0.24	0.24	ppb	6.19	550	
238 U	209	1	0.32	0.32	ppb	4.42	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	792102	2.27	775171	102.2	60 - 120	
89 Y	1	2646383	0.64	2551189	103.7	60 - 120	
115 In	1	2811960	0.68	2760750	101.9	60 - 120	
209 Bi	1	3657505	1.31	3514494	104.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\025SMPL.D\025SMPL.D#
Date Acquired: Dec 23 2009 12:58 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10989-d-2-b
Misc Info:
Vial Number: 2402
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.17	0.17	ppb	37.67	550	
9 Be	45	1	0.03	0.03	ppb	96.74	10000	
11 B	45	1	-5.29	-5.29	ppb	12.42	550	
23 Na	45	1	10.93	10.93	ppb	40.50	300000	
24 Mg	45	1	2.61	2.61	ppb	61.90	125000	
27 Al	45	1	2.14	2.14	ppb	81.45	62500	
29 Si	45	1	-1.90	-1.90	ppb	511.84	12500	
34 S	45	1	416.70	416.70	ppb	14.60	21000	
39 K	45	1	8.27	8.27	ppb	26.71	125000	
44 Ca	45	1	7.85	7.85	ppb	47.09	125000	
47 Ti	45	1	0.08	0.08	ppb	27.87	12500	
51 V	45	1	0.16	0.16	ppb	12.23	12500	
53 Cr	45	1	0.40	0.40	ppb	6.27	12500	
55 Mn	45	1	-0.10	-0.10	ppb	15.86	12500	
57 Fe	45	1	2.73	2.73	ppb	70.70	65000	
59 Co	89	1	-0.03	-0.03	ppb	51.16	12500	
60 Ni	89	1	-0.02	-0.02	ppb	109.25	2500	
63 Cu	89	1	-0.01	-0.01	ppb	437.56	2500	
66 Zn	89	1	-0.05	-0.05	ppb	21.69	2500	
75 As	89	1	0.03	0.03	ppb	39.93	12500	
78 Se	89	1	-0.04	-0.04	ppb	677.31	10000	
90 Zr	89	1	0.05	0.05	ppb	45.72	550	
95 Mo	89	1	0.07	0.07	ppb	10.56	12500	
107 Ag	115	1	0.01	0.01	ppb	75.95	1000	
111 Cd	115	1	0.01	0.01	ppb	57.48	10000	
118 Sn	115	1	0.23	0.23	ppb	35.52	2500	
121 Sb	115	1	0.03	0.03	ppb	38.76	2500	
137 Ba	115	1	0.05	0.05	ppb	89.66	10000	
205 Tl	209	1	-0.15	-0.15	ppb	8.45	12500	
207 Pb	209	1	0.03	0.03	ppb	73.70	12500	
232 Th	209	1	0.05	0.05	ppb	13.54	550	
238 U	209	1	0.00	0.00	ppb	402.98	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	778965	0.11	775171	100.5	60 - 120	
89 Y	1	2586783	0.49	2551189	101.4	60 - 120	
115 In	1	2789479	1.05	2760750	101.0	60 - 120	
209 Bi	1	3635883	1.16	3514494	103.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\026SMPL.D\026SMPL.D#
Date Acquired: Dec 23 2009 01:02 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10989-d-1-b
Misc Info:
Vial Number: 2403
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	4.92	4.92	ppb	1.99	550	
9 Be	45	1	0.03	0.03	ppb	103.65	10000	
11 B	45	1	57.18	57.18	ppb	6.18	550	
23 Na	45	1	48,690.00	48690.00	ppb	1.32	300000	
24 Mg	45	1	8,105.00	8105.00	ppb	1.41	125000	
27 Al	45	1	36.92	36.92	ppb	5.46	62500	
29 Si	45	1	1,285.00	1285.00	ppb	1.24	12500	
34 S	45	1	12,580.00	12580.00	ppb	3.35	21000	
39 K	45	1	3,233.00	3233.00	ppb	2.28	125000	
44 Ca	45	1	4,654.00	4654.00	ppb	2.22	125000	
47 Ti	45	1	1.50	1.50	ppb	13.70	12500	
51 V	45	1	0.55	0.55	ppb	1.31	12500	
53 Cr	45	1	0.59	0.59	ppb	4.62	12500	
55 Mn	45	1	520.50	520.50	ppb	2.17	12500	
57 Fe	45	1	154.40	154.40	ppb	2.62	65000	
59 Co	89	1	0.43	0.43	ppb	2.66	12500	
60 Ni	89	1	1.54	1.54	ppb	3.32	2500	
63 Cu	89	1	0.22	0.22	ppb	8.03	2500	
66 Zn	89	1	1.72	1.72	ppb	2.96	2500	
75 As	89	1	0.46	0.46	ppb	13.81	12500	
78 Se	89	1	-0.08	-0.08	ppb	113.27	10000	
90 Zr	89	1	0.97	0.97	ppb	1.61	550	
95 Mo	89	1	0.41	0.41	ppb	5.55	12500	
107 Ag	115	1	0.01	0.01	ppb	45.07	1000	
111 Cd	115	1	0.01	0.01	ppb	179.57	10000	
118 Sn	115	1	0.18	0.18	ppb	25.83	2500	
121 Sb	115	1	0.08	0.08	ppb	23.04	2500	
137 Ba	115	1	1.59	1.59	ppb	7.56	10000	
205 Tl	209	1	-0.17	-0.17	ppb	4.89	12500	
207 Pb	209	1	0.19	0.19	ppb	7.84	12500	
232 Th	209	1	0.08	0.08	ppb	15.54	550	
238 U	209	1	0.22	0.22	ppb	3.34	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	811353	2.72	775171	104.7	60 - 120	
89 Y	1	2651043	0.13	2551189	103.9	60 - 120	
115 In	1	2795759	0.60	2760750	101.3	60 - 120	
209 Bi	1	3451565	0.54	3514494	98.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\027SMPL.D\027SMPL.D#
Date Acquired: Dec 23 2009 01:06 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-4-b
Misc Info:
Vial Number: 2404
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.16	0.16	ppb	45.47	550	
9 Be	45	1	0.04	0.04	ppb	145.95	10000	
11 B	45	1	130.20	130.20	ppb	1.35	550	
23 Na	45	1	32,730.00	32730.00	ppb	0.86	300000	
24 Mg	45	1	653.80	653.80	ppb	0.71	125000	
27 Al	45	1	2.59	2.59	ppb	39.96	62500	
29 Si	45	1	1,025.00	1025.00	ppb	0.65	12500	
34 S	45	1	1,791.00	1791.00	ppb	6.37	21000	
39 K	45	1	940.20	940.20	ppb	1.33	125000	
44 Ca	45	1	9,433.00	9433.00	ppb	0.71	125000	
47 Ti	45	1	0.07	0.07	ppb	101.23	12500	
51 V	45	1	0.47	0.47	ppb	3.25	12500	
53 Cr	45	1	0.52	0.52	ppb	9.86	12500	
55 Mn	45	1	0.88	0.88	ppb	7.56	12500	
57 Fe	45	1	5.84	5.84	ppb	24.09	65000	
59 Co	89	1	-0.03	-0.03	ppb	51.18	12500	
60 Ni	89	1	0.54	0.54	ppb	3.50	2500	
63 Cu	89	1	0.29	0.29	ppb	5.29	2500	
66 Zn	89	1	0.52	0.52	ppb	7.67	2500	
75 As	89	1	0.22	0.22	ppb	14.81	12500	
78 Se	89	1	0.42	0.42	ppb	81.32	10000	
90 Zr	89	1	0.09	0.09	ppb	36.23	550	
95 Mo	89	1	2.61	2.61	ppb	3.04	12500	
107 Ag	115	1	0.02	0.02	ppb	70.37	1000	
111 Cd	115	1	0.02	0.02	ppb	74.10	10000	
118 Sn	115	1	0.05	0.05	ppb	115.04	2500	
121 Sb	115	1	0.19	0.19	ppb	26.22	2500	
137 Ba	115	1	4.72	4.72	ppb	0.43	10000	
205 Tl	209	1	-0.16	-0.16	ppb	7.98	12500	
207 Pb	209	1	0.02	0.02	ppb	80.41	12500	
232 Th	209	1	0.01	0.01	ppb	251.11	550	
238 U	209	1	0.06	0.06	ppb	19.42	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	829838	0.91	775171	107.1	60 - 120	
89 Y	1	2701283	1.18	2551189	105.9	60 - 120	
115 In	1	2846313	0.50	2760750	103.1	60 - 120	
209 Bi	1	3535518	0.96	3514494	100.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\028SMPL.D\028SMPL.D#
Date Acquired: Dec 23 2009 01:09 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-4-c du
Misc Info:
Vial Number: 2405
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.21	0.21	ppb	43.77	550	
9 Be	45	1	0.04	0.04	ppb	44.04	10000	
11 B	45	1	135.20	135.20	ppb	0.95	550	
23 Na	45	1	33,040.00	33040.00	ppb	0.88	300000	
24 Mg	45	1	655.90	655.90	ppb	1.11	125000	
27 Al	45	1	2.45	2.45	ppb	39.56	62500	
29 Si	45	1	1,013.00	1013.00	ppb	2.30	12500	
34 S	45	1	1,782.00	1782.00	ppb	1.90	21000	
39 K	45	1	945.00	945.00	ppb	2.96	125000	
44 Ca	45	1	9,480.00	9480.00	ppb	1.63	125000	
47 Ti	45	1	0.07	0.07	ppb	45.30	12500	
51 V	45	1	0.47	0.47	ppb	4.60	12500	
53 Cr	45	1	0.54	0.54	ppb	10.95	12500	
55 Mn	45	1	0.81	0.81	ppb	7.86	12500	
57 Fe	45	1	5.35	5.35	ppb	24.48	65000	
59 Co	89	1	-0.03	-0.03	ppb	28.77	12500	
60 Ni	89	1	0.58	0.58	ppb	2.24	2500	
63 Cu	89	1	0.40	0.40	ppb	1.81	2500	
66 Zn	89	1	0.50	0.50	ppb	11.19	2500	
75 As	89	1	0.23	0.23	ppb	11.25	12500	
78 Se	89	1	0.21	0.21	ppb	61.78	10000	
90 Zr	89	1	0.05	0.05	ppb	37.43	550	
95 Mo	89	1	2.57	2.57	ppb	1.16	12500	
107 Ag	115	1	0.01	0.01	ppb	72.75	1000	
111 Cd	115	1	0.02	0.02	ppb	66.22	10000	
118 Sn	115	1	-0.08	-0.08	ppb	29.70	2500	
121 Sb	115	1	0.16	0.16	ppb	9.82	2500	
137 Ba	115	1	4.58	4.58	ppb	0.93	10000	
205 Tl	209	1	-0.18	-0.18	ppb	5.58	12500	
207 Pb	209	1	0.01	0.01	ppb	162.45	12500	
232 Th	209	1	-0.04	-0.04	ppb	15.89	550	
238 U	209	1	0.05	0.05	ppb	14.46	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	827504	1.51	775171	106.8	60 - 120	
89 Y	1	2694870	0.39	2551189	105.6	60 - 120	
115 In	1	2830921	0.13	2760750	102.5	60 - 120	
209 Bi	1	3534130	1.76	3514494	100.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\029SMPL.D\029SMPL.D#
Date Acquired: Dec 23 2009 01:13 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-4-d ms
Misc Info:
Vial Number: 2406
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.15	0.15	ppb	37.93	550	
9 Be	45	1	4.11	4.11	ppb	1.84	10000	
11 B	45	1	238.50	238.50	ppb	1.51	550	
23 Na	45	1	33,490.00	33490.00	ppb	1.26	300000	
24 Mg	45	1	1,355.00	1355.00	ppb	1.61	125000	
27 Al	45	1	426.10	426.10	ppb	2.44	62500	
29 Si	45	1	1,128.00	1128.00	ppb	2.34	12500	
34 S	45	1	6,037.00	6037.00	ppb	1.10	21000	
39 K	45	1	2,502.00	2502.00	ppb	2.50	125000	
44 Ca	45	1	10,000.00	10000.00	ppb	1.80	125000	
47 Ti	45	1	108.90	108.90	ppb	2.69	12500	
51 V	45	1	13.28	13.28	ppb	2.06	12500	
53 Cr	45	1	12.46	12.46	ppb	1.25	12500	
55 Mn	45	1	9.19	9.19	ppb	1.47	12500	
57 Fe	45	1	325.60	325.60	ppb	2.03	65000	
59 Co	89	1	13.22	13.22	ppb	0.28	12500	
60 Ni	89	1	13.11	13.11	ppb	0.84	2500	
63 Cu	89	1	13.81	13.81	ppb	1.11	2500	
66 Zn	89	1	13.15	13.15	ppb	0.97	2500	
75 As	89	1	42.96	42.96	ppb	0.79	12500	
78 Se	89	1	20.79	20.79	ppb	5.25	10000	
90 Zr	89	1	107.40	107.40	ppb	1.79	550	
95 Mo	89	1	105.90	105.90	ppb	0.98	12500	
107 Ag	115	1	12.78	12.78	ppb	0.80	1000	
111 Cd	115	1	12.27	12.27	ppb	0.82	10000	
118 Sn	115	1	102.60	102.60	ppb	0.97	2500	
121 Sb	115	1	112.10	112.10	ppb	1.02	2500	
137 Ba	115	1	16.50	16.50	ppb	1.70	10000	
205 Tl	209	1	37.76	37.76	ppb	1.56	12500	
207 Pb	209	1	41.33	41.33	ppb	0.83	12500	
232 Th	209	1	0.22	0.22	ppb	3.40	550	
238 U	209	1	0.05	0.05	ppb	14.97	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	840350	1.83	775171	108.4	60 - 120	
89 Y	1	2718574	0.17	2551189	106.6	60 - 120	
115 In	1	2847272	0.98	2760750	103.1	60 - 120	
209 Bi	1	3488014	0.91	3514494	99.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\030SMPL.D\030SMPL.D#
Date Acquired: Dec 23 2009 01:16 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-4-b sd@5
Misc Info:
Vial Number: 2407
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.03	0.03	ppb	103.38	550	
9 Be	45	1	0.02	0.02	ppb	57.64	10000	
11 B	45	1	27.03	27.03	ppb	12.12	550	
23 Na	45	1	6,596.00	6596.00	ppb	1.55	300000	
24 Mg	45	1	141.50	141.50	ppb	2.66	125000	
27 Al	45	1	1.90	1.90	ppb	30.15	62500	
29 Si	45	1	210.30	210.30	ppb	2.00	12500	
34 S	45	1	666.50	666.50	ppb	10.84	21000	
39 K	45	1	239.00	239.00	ppb	3.99	125000	
44 Ca	45	1	1,894.00	1894.00	ppb	1.72	125000	
47 Ti	45	1	0.15	0.15	ppb	25.82	12500	
51 V	45	1	0.13	0.13	ppb	4.76	12500	
53 Cr	45	1	0.17	0.17	ppb	24.06	12500	
55 Mn	45	1	0.08	0.08	ppb	8.62	12500	
57 Fe	45	1	1.35	1.35	ppb	45.39	65000	
59 Co	89	1	-0.03	-0.03	ppb	20.17	12500	
60 Ni	89	1	0.10	0.10	ppb	10.91	2500	
63 Cu	89	1	-0.03	-0.03	ppb	39.37	2500	
66 Zn	89	1	1.30	1.30	ppb	4.18	2500	
75 As	89	1	0.06	0.06	ppb	3.81	12500	
78 Se	89	1	0.02	0.02	ppb	939.04	10000	
90 Zr	89	1	0.41	0.41	ppb	5.72	550	
95 Mo	89	1	1.40	1.40	ppb	9.11	12500	
107 Ag	115	1	0.00	0.00	ppb	148.15	1000	
111 Cd	115	1	0.00	0.00	ppb	289.90	10000	
118 Sn	115	1	1.52	1.52	ppb	3.05	2500	
121 Sb	115	1	0.32	0.32	ppb	7.00	2500	
137 Ba	115	1	0.93	0.93	ppb	1.81	10000	
205 Tl	209	1	0.06	0.06	ppb	56.90	12500	
207 Pb	209	1	0.04	0.04	ppb	42.10	12500	
232 Th	209	1	-0.11	-0.11	ppb	4.93	550	
238 U	209	1	0.00	0.00	ppb	141.02	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	834895	1.90	775171	107.7	60 - 120	
89 Y	1	2755165	0.80	2551189	108.0	60 - 120	
115 In	1	2934685	0.34	2760750	106.3	60 - 120	
209 Bi	1	3656602	1.86	3514494	104.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\031SMPL.D\031SMPL.D#
Date Acquired: Dec 23 2009 01:20 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-5-b
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.13	0.13	ppb	27.01	550	
9 Be	45	1	0.00	0.00	ppb	893.17	10000	
11 B	45	1	15.22	15.22	ppb	11.40	550	
23 Na	45	1	6,447.00	6447.00	ppb	1.87	300000	
24 Mg	45	1	426.10	426.10	ppb	2.26	125000	
27 Al	45	1	7.56	7.56	ppb	14.49	62500	
29 Si	45	1	826.70	826.70	ppb	3.55	12500	
34 S	45	1	1,044.00	1044.00	ppb	9.10	21000	
39 K	45	1	1,306.00	1306.00	ppb	3.22	125000	
44 Ca	45	1	6,583.00	6583.00	ppb	2.25	125000	
47 Ti	45	1	0.33	0.33	ppb	9.72	12500	
51 V	45	1	0.17	0.17	ppb	13.37	12500	
53 Cr	45	1	0.37	0.37	ppb	4.80	12500	
55 Mn	45	1	1,058.00	1058.00	ppb	2.52	12500	
57 Fe	45	1	11.35	11.35	ppb	10.26	65000	
59 Co	89	1	0.02	0.02	ppb	29.79	12500	
60 Ni	89	1	0.14	0.14	ppb	6.46	2500	
63 Cu	89	1	0.01	0.01	ppb	170.73	2500	
66 Zn	89	1	0.19	0.19	ppb	25.47	2500	
75 As	89	1	0.05	0.05	ppb	16.77	12500	
78 Se	89	1	0.07	0.07	ppb	44.08	10000	
90 Zr	89	1	0.37	0.37	ppb	10.58	550	
95 Mo	89	1	0.17	0.17	ppb	18.19	12500	
107 Ag	115	1	0.00	0.00	ppb	265.59	1000	
111 Cd	115	1	0.02	0.02	ppb	60.65	10000	
118 Sn	115	1	0.32	0.32	ppb	13.64	2500	
121 Sb	115	1	-0.02	-0.02	ppb	56.93	2500	
137 Ba	115	1	7.28	7.28	ppb	1.76	10000	
205 Tl	209	1	-0.12	-0.12	ppb	3.18	12500	
207 Pb	209	1	0.00	0.00	ppb	352.30	12500	
232 Th	209	1	-0.11	-0.11	ppb	3.51	550	
238 U	209	1	-0.01	-0.01	ppb	52.48	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	823168	2.14	775171	106.2	60 - 120	
89 Y	1	2719130	1.19	2551189	106.6	60 - 120	
115 In	1	2899642	0.68	2760750	105.0	60 - 120	
209 Bi	1	3699935	0.53	3514494	105.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\032SMPL.D\032SMPL.D#
Date Acquired: Dec 23 2009 01:23 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-6-b
Misc Info:
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.13	0.13	ppb	15.54	550	
9 Be	45	1	0.01	0.01	ppb	598.96	10000	
11 B	45	1	16.49	16.49	ppb	12.41	550	
23 Na	45	1	757.20	757.20	ppb	2.47	300000	
24 Mg	45	1	738.90	738.90	ppb	1.46	125000	
27 Al	45	1	18.84	18.84	ppb	8.98	62500	
29 Si	45	1	487.80	487.80	ppb	4.97	12500	
34 S	45	1	785.70	785.70	ppb	19.41	21000	
39 K	45	1	884.30	884.30	ppb	1.24	125000	
44 Ca	45	1	11,860.00	11860.00	ppb	1.74	125000	
47 Ti	45	1	0.36	0.36	ppb	20.02	12500	
51 V	45	1	0.54	0.54	ppb	5.53	12500	
53 Cr	45	1	0.38	0.38	ppb	8.04	12500	
55 Mn	45	1	104.10	104.10	ppb	2.13	12500	
57 Fe	45	1	170.80	170.80	ppb	3.62	65000	
59 Co	89	1	0.02	0.02	ppb	61.33	12500	
60 Ni	89	1	0.12	0.12	ppb	16.19	2500	
63 Cu	89	1	0.57	0.57	ppb	4.69	2500	
66 Zn	89	1	0.33	0.33	ppb	1.58	2500	
75 As	89	1	0.14	0.14	ppb	32.53	12500	
78 Se	89	1	-0.07	-0.07	ppb	201.88	10000	
90 Zr	89	1	0.34	0.34	ppb	13.18	550	
95 Mo	89	1	0.12	0.12	ppb	30.15	12500	
107 Ag	115	1	0.01	0.01	ppb	173.19	1000	
111 Cd	115	1	0.04	0.04	ppb	38.57	10000	
118 Sn	115	1	0.07	0.07	ppb	48.07	2500	
121 Sb	115	1	-0.03	-0.03	ppb	107.26	2500	
137 Ba	115	1	30.88	30.88	ppb	0.95	10000	
205 Tl	209	1	-0.18	-0.18	ppb	7.69	12500	
207 Pb	209	1	0.03	0.03	ppb	100.48	12500	
232 Th	209	1	-0.11	-0.11	ppb	6.16	550	
238 U	209	1	0.02	0.02	ppb	55.40	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	812788	1.55	775171	104.9	60 - 120	
89 Y	1	2693484	0.15	2551189	105.6	60 - 120	
115 In	1	2870776	0.09	2760750	104.0	60 - 120	
209 Bi	1	3705468	1.38	3514494	105.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\033SMPL.D\033SMPL.D#
Date Acquired: Dec 23 2009 01:27 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-7-b
Misc Info:
Vial Number: 2410
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.29	0.29	ppb	17.54	550	
9 Be	45	1	0.01	0.01	ppb	237.27	10000	
11 B	45	1	10.22	10.22	ppb	14.74	550	
23 Na	45	1	1,271.00	1271.00	ppb	2.61	300000	
24 Mg	45	1	297.30	297.30	ppb	1.19	125000	
27 Al	45	1	19.30	19.30	ppb	1.97	62500	
29 Si	45	1	945.70	945.70	ppb	2.98	12500	
34 S	45	1	1,007.00	1007.00	ppb	14.25	21000	
39 K	45	1	590.50	590.50	ppb	2.43	125000	
44 Ca	45	1	1,557.00	1557.00	ppb	2.36	125000	
47 Ti	45	1	0.06	0.06	ppb	39.07	12500	
51 V	45	1	0.17	0.17	ppb	2.64	12500	
53 Cr	45	1	0.34	0.34	ppb	12.78	12500	
55 Mn	45	1	3.67	3.67	ppb	3.22	12500	
57 Fe	45	1	1.22	1.22	ppb	34.08	65000	
59 Co	89	1	0.02	0.02	ppb	13.76	12500	
60 Ni	89	1	0.33	0.33	ppb	0.87	2500	
63 Cu	89	1	1.33	1.33	ppb	1.87	2500	
66 Zn	89	1	0.35	0.35	ppb	6.28	2500	
75 As	89	1	0.03	0.03	ppb	17.47	12500	
78 Se	89	1	0.02	0.02	ppb	294.95	10000	
90 Zr	89	1	0.04	0.04	ppb	47.43	550	
95 Mo	89	1	0.01	0.01	ppb	129.21	12500	
107 Ag	115	1	0.00	0.00	ppb	43.06	1000	
111 Cd	115	1	0.00	0.00	ppb	38.74	10000	
118 Sn	115	1	0.01	0.01	ppb	458.46	2500	
121 Sb	115	1	-0.07	-0.07	ppb	10.01	2500	
137 Ba	115	1	2.67	2.67	ppb	2.21	10000	
205 Tl	209	1	-0.20	-0.20	ppb	4.32	12500	
207 Pb	209	1	-0.01	-0.01	ppb	46.98	12500	
232 Th	209	1	-0.12	-0.12	ppb	3.42	550	
238 U	209	1	-0.01	-0.01	ppb	4.90	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	815383	1.30	775171	105.2	60 - 120	
89 Y	1	2715892	0.24	2551189	106.5	60 - 120	
115 In	1	2911037	0.54	2760750	105.4	60 - 120	
209 Bi	1	3789020	0.20	3514494	107.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\034SMPL.D\034SMPL.D#
Date Acquired: Dec 23 2009 01:30 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2411
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	85.52	85.52	ppb	2.41	550	
9 Be	45	1	123.40	123.40	ppb	0.83	10000	
11 B	45	1	192.90	192.90	ppb	0.54	550	
23 Na	45	1	2,125.00	2125.00	ppb	1.44	300000	
24 Mg	45	1	2,626.00	2626.00	ppb	1.07	125000	
27 Al	45	1	3,733.00	3733.00	ppb	1.77	62500	
29 Si	45	1	145.30	145.30	ppb	7.20	12500	
34 S	45	1	10,890.00	10890.00	ppb	1.88	21000	
39 K	45	1	4,242.00	4242.00	ppb	1.48	125000	
44 Ca	45	1	2,552.00	2552.00	ppb	2.28	125000	
47 Ti	45	1	196.90	196.90	ppb	1.40	12500	
51 V	45	1	61.46	61.46	ppb	1.78	12500	
53 Cr	45	1	57.65	57.65	ppb	1.25	12500	
55 Mn	45	1	40.98	40.98	ppb	1.68	12500	
57 Fe	45	1	965.80	965.80	ppb	1.61	65000	
59 Co	89	1	63.62	63.62	ppb	0.92	12500	
60 Ni	89	1	60.88	60.88	ppb	0.58	2500	
63 Cu	89	1	62.44	62.44	ppb	0.37	2500	
66 Zn	89	1	61.82	61.82	ppb	0.95	2500	
75 As	89	1	203.50	203.50	ppb	0.30	12500	
78 Se	89	1	99.03	99.03	ppb	0.61	10000	
90 Zr	89	1	165.10	165.10	ppb	0.30	550	
95 Mo	89	1	194.30	194.30	ppb	1.23	12500	
107 Ag	115	1	62.30	62.30	ppb	2.05	1000	
111 Cd	115	1	59.46	59.46	ppb	1.36	10000	
118 Sn	115	1	189.50	189.50	ppb	0.36	2500	
121 Sb	115	1	202.80	202.80	ppb	0.92	2500	
137 Ba	115	1	57.54	57.54	ppb	1.09	10000	
205 Tl	209	1	192.90	192.90	ppb	1.37	12500	
207 Pb	209	1	205.60	205.60	ppb	1.23	12500	
232 Th	209	1	69.96	69.96	ppb	0.96	550	
238 U	209	1	75.00	75.00	ppb	1.44	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	806944	1.62	775171	104.1	60 - 120	
89 Y	1	2646369	0.34	2551189	103.7	60 - 120	
115 In	1	2861249	0.75	2760750	103.6	60 - 120	
209 Bi	1	3635772	1.69	3514494	103.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\035SMPL.D\035SMPL.D#
Date Acquired: Dec 23 2009 01:37 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2412
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.01	0.01	ppb	417.11	550	
9 Be	45	1	-0.01	-0.01	ppb	72.07	10000	
11 B	45	1	-2.93	-2.93	ppb	42.99	550	
23 Na	45	1	7.30	7.30	ppb	40.72	300000	
24 Mg	45	1	1.37	1.37	ppb	35.81	125000	
27 Al	45	1	1.55	1.55	ppb	22.28	62500	
29 Si	45	1	-18.52	-18.52	ppb	35.93	12500	
34 S	45	1	421.60	421.60	ppb	28.04	21000	
39 K	45	1	8.24	8.24	ppb	30.23	125000	
44 Ca	45	1	2.74	2.74	ppb	76.00	125000	
47 Ti	45	1	0.13	0.13	ppb	16.83	12500	
51 V	45	1	0.01	0.01	ppb	68.25	12500	
53 Cr	45	1	0.03	0.03	ppb	52.94	12500	
55 Mn	45	1	0.07	0.07	ppb	46.19	12500	
57 Fe	45	1	2.13	2.13	ppb	25.21	65000	
59 Co	89	1	0.03	0.03	ppb	5.59	12500	
60 Ni	89	1	-0.03	-0.03	ppb	22.34	2500	
63 Cu	89	1	-0.16	-0.16	ppb	8.31	2500	
66 Zn	89	1	-0.46	-0.46	ppb	1.54	2500	
75 As	89	1	0.03	0.03	ppb	71.49	12500	
78 Se	89	1	0.07	0.07	ppb	75.31	10000	
90 Zr	89	1	-0.05	-0.05	ppb	16.07	550	
95 Mo	89	1	0.37	0.37	ppb	19.06	12500	
107 Ag	115	1	0.00	0.00	ppb	421.69	1000	
111 Cd	115	1	0.01	0.01	ppb	125.72	10000	
118 Sn	115	1	1.22	1.22	ppb	11.45	2500	
121 Sb	115	1	0.39	0.39	ppb	6.80	2500	
137 Ba	115	1	0.00	0.00	ppb	151.51	10000	
205 Tl	209	1	-0.19	-0.19	ppb	4.10	12500	
207 Pb	209	1	0.04	0.04	ppb	34.01	12500	
232 Th	209	1	1.05	1.05	ppb	3.24	550	
238 U	209	1	0.00	0.00	ppb	173.75	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	756926	0.72	775171	97.6	60 - 120	
89 Y	1	2570409	1.46	2551189	100.8	60 - 120	
115 In	1	2808954	1.14	2760750	101.7	60 - 120	
209 Bi	1	3696606	0.68	3514494	105.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\036SMPL.D\036SMPL.D#
Date Acquired: Dec 23 2009 01:41 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-8-b
Misc Info:
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.09	0.09	ppb	74.34	550	
9 Be	45	1	0.00	0.00	ppb	341.46	10000	
11 B	45	1	120.50	120.50	ppb	1.39	550	
23 Na	45	1	58,480.00	58480.00	ppb	1.16	300000	
24 Mg	45	1	672.60	672.60	ppb	1.11	125000	
27 Al	45	1	19.93	19.93	ppb	4.96	62500	
29 Si	45	1	1,252.00	1252.00	ppb	2.15	12500	
34 S	45	1	2,501.00	2501.00	ppb	7.47	21000	
39 K	45	1	874.90	874.90	ppb	2.32	125000	
44 Ca	45	1	7,651.00	7651.00	ppb	2.23	125000	
47 Ti	45	1	0.31	0.31	ppb	15.73	12500	
51 V	45	1	0.48	0.48	ppb	2.47	12500	
53 Cr	45	1	71.82	71.82	ppb	1.55	12500	
55 Mn	45	1	36.83	36.83	ppb	2.51	12500	
57 Fe	45	1	474.70	474.70	ppb	2.37	65000	
59 Co	89	1	0.03	0.03	ppb	19.60	12500	
60 Ni	89	1	1.14	1.14	ppb	1.32	2500	
63 Cu	89	1	0.46	0.46	ppb	3.08	2500	
66 Zn	89	1	0.75	0.75	ppb	3.58	2500	
75 As	89	1	0.09	0.09	ppb	16.36	12500	
78 Se	89	1	0.24	0.24	ppb	44.37	10000	
90 Zr	89	1	0.33	0.33	ppb	8.17	550	
95 Mo	89	1	0.40	0.40	ppb	3.98	12500	
107 Ag	115	1	0.00	0.00	ppb	274.84	1000	
111 Cd	115	1	0.05	0.05	ppb	7.19	10000	
118 Sn	115	1	0.49	0.49	ppb	19.76	2500	
121 Sb	115	1	0.09	0.09	ppb	9.57	2500	
137 Ba	115	1	29.07	29.07	ppb	0.92	10000	
205 Tl	209	1	-0.21	-0.21	ppb	5.56	12500	
207 Pb	209	1	0.02	0.02	ppb	87.67	12500	
232 Th	209	1	0.31	0.31	ppb	5.53	550	
238 U	209	1	0.00	0.00	ppb	352.08	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	771642	2.87	775171	99.5	60 - 120	
89 Y	1	2579160	0.74	2551189	101.1	60 - 120	
115 In	1	2735823	0.93	2760750	99.1	60 - 120	
209 Bi	1	3514403	0.88	3514494	100.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\037SMPL.D\037SMPL.D#
Date Acquired: Dec 23 2009 01:44 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-9-b
Misc Info:
Vial Number: 2502
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.18	0.18	ppb	45.12	550	
9 Be	45	1	0.03	0.03	ppb	31.40	10000	
11 B	45	1	11.22	11.22	ppb	9.92	550	
23 Na	45	1	4,425.00	4425.00	ppb	0.86	300000	
24 Mg	45	1	360.00	360.00	ppb	0.94	125000	
27 Al	45	1	54.35	54.35	ppb	2.01	62500	
29 Si	45	1	476.30	476.30	ppb	4.52	12500	
34 S	45	1	2,045.00	2045.00	ppb	4.96	21000	
39 K	45	1	1,213.00	1213.00	ppb	2.36	125000	
44 Ca	45	1	6,547.00	6547.00	ppb	1.02	125000	
47 Ti	45	1	0.57	0.57	ppb	11.43	12500	
51 V	45	1	0.28	0.28	ppb	6.41	12500	
53 Cr	45	1	0.66	0.66	ppb	2.09	12500	
55 Mn	45	1	0.46	0.46	ppb	9.11	12500	
57 Fe	45	1	12.84	12.84	ppb	7.87	65000	
59 Co	89	1	-0.02	-0.02	ppb	44.22	12500	
60 Ni	89	1	1.10	1.10	ppb	1.79	2500	
63 Cu	89	1	0.17	0.17	ppb	14.72	2500	
66 Zn	89	1	0.30	0.30	ppb	12.67	2500	
75 As	89	1	0.06	0.06	ppb	23.07	12500	
78 Se	89	1	0.20	0.20	ppb	70.41	10000	
90 Zr	89	1	11.94	11.94	ppb	8.64	550	
95 Mo	89	1	0.92	0.92	ppb	2.30	12500	
107 Ag	115	1	0.01	0.01	ppb	83.06	1000	
111 Cd	115	1	0.01	0.01	ppb	131.54	10000	
118 Sn	115	1	0.22	0.22	ppb	29.95	2500	
121 Sb	115	1	0.22	0.22	ppb	12.47	2500	
137 Ba	115	1	1.37	1.37	ppb	2.80	10000	
205 Tl	209	1	-0.20	-0.20	ppb	6.54	12500	
207 Pb	209	1	0.02	0.02	ppb	73.69	12500	
232 Th	209	1	0.11	0.11	ppb	11.70	550	
238 U	209	1	0.01	0.01	ppb	83.17	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	803576	0.81	775171	103.7	60 - 120	
89 Y	1	2661079	0.45	2551189	104.3	60 - 120	
115 In	1	2860653	0.36	2760750	103.6	60 - 120	
209 Bi	1	3700391	0.73	3514494	105.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\038SMPL.D\038SMPL.D#
Date Acquired: Dec 23 2009 01:48 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-10-b
Misc Info:
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.11	0.11	ppb	5.23	550	
9 Be	45	1	0.01	0.01	ppb	384.97	10000	
11 B	45	1	11.59	11.59	ppb	24.54	550	
23 Na	45	1	9,678.00	9678.00	ppb	1.02	300000	
24 Mg	45	1	334.50	334.50	ppb	1.50	125000	
27 Al	45	1	1.39	1.39	ppb	40.17	62500	
29 Si	45	1	684.50	684.50	ppb	2.33	12500	
34 S	45	1	1,272.00	1272.00	ppb	14.64	21000	
39 K	45	1	1,282.00	1282.00	ppb	1.62	125000	
44 Ca	45	1	5,021.00	5021.00	ppb	1.36	125000	
47 Ti	45	1	0.01	0.01	ppb	383.18	12500	
51 V	45	1	0.18	0.18	ppb	4.95	12500	
53 Cr	45	1	0.41	0.41	ppb	13.12	12500	
55 Mn	45	1	-0.02	-0.02	ppb	407.27	12500	
57 Fe	45	1	2.17	2.17	ppb	40.00	65000	
59 Co	89	1	-0.04	-0.04	ppb	16.93	12500	
60 Ni	89	1	0.06	0.06	ppb	10.49	2500	
63 Cu	89	1	-0.01	-0.01	ppb	103.53	2500	
66 Zn	89	1	2.50	2.50	ppb	2.75	2500	
75 As	89	1	0.05	0.05	ppb	46.74	12500	
78 Se	89	1	0.25	0.25	ppb	81.10	10000	
90 Zr	89	1	0.88	0.88	ppb	2.37	550	
95 Mo	89	1	0.88	0.88	ppb	3.37	12500	
107 Ag	115	1	0.01	0.01	ppb	210.06	1000	
111 Cd	115	1	0.00	0.00	ppb	493.49	10000	
118 Sn	115	1	0.08	0.08	ppb	49.36	2500	
121 Sb	115	1	0.00	0.00	ppb	2430.90	2500	
137 Ba	115	1	4.35	4.35	ppb	1.30	10000	
205 Tl	209	1	-0.22	-0.22	ppb	6.65	12500	
207 Pb	209	1	0.00	0.00	ppb	529880.00	12500	
232 Th	209	1	0.02	0.02	ppb	48.02	550	
238 U	209	1	-0.01	-0.01	ppb	97.22	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	798110	0.94	775171	103.0	60 - 120	
89 Y	1	2656084	0.96	2551189	104.1	60 - 120	
115 In	1	2862631	0.35	2760750	103.7	60 - 120	
209 Bi	1	3732388	0.61	3514494	106.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\039SMPL.D\039SMPL.D#
Date Acquired: Dec 23 2009 01:51 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-11-b
Misc Info:
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.18	0.18	ppb	22.89	550	
9 Be	45	1	-0.01	-0.01	ppb	128.97	10000	
11 B	45	1	65.61	65.61	ppb	4.53	550	
23 Na	45	1	27,390.00	27390.00	ppb	1.82	300000	
24 Mg	45	1	1,435.00	1435.00	ppb	2.31	125000	
27 Al	45	1	2.36	2.36	ppb	12.94	62500	
29 Si	45	1	1,098.00	1098.00	ppb	2.78	12500	
34 S	45	1	1,363.00	1363.00	ppb	7.45	21000	
39 K	45	1	1,405.00	1405.00	ppb	2.72	125000	
44 Ca	45	1	17,220.00	17220.00	ppb	2.94	125000	
47 Ti	45	1	0.06	0.06	ppb	106.55	12500	
51 V	45	1	0.24	0.24	ppb	7.04	12500	
53 Cr	45	1	0.45	0.45	ppb	3.97	12500	
55 Mn	45	1	193.10	193.10	ppb	2.08	12500	
57 Fe	45	1	842.40	842.40	ppb	2.27	65000	
59 Co	89	1	0.55	0.55	ppb	2.16	12500	
60 Ni	89	1	2.28	2.28	ppb	1.61	2500	
63 Cu	89	1	0.07	0.07	ppb	12.26	2500	
66 Zn	89	1	0.50	0.50	ppb	19.23	2500	
75 As	89	1	0.18	0.18	ppb	7.26	12500	
78 Se	89	1	0.05	0.05	ppb	295.33	10000	
90 Zr	89	1	0.70	0.70	ppb	6.91	550	
95 Mo	89	1	1.20	1.20	ppb	6.05	12500	
107 Ag	115	1	0.01	0.01	ppb	78.58	1000	
111 Cd	115	1	0.01	0.01	ppb	121.87	10000	
118 Sn	115	1	-0.03	-0.03	ppb	186.10	2500	
121 Sb	115	1	-0.04	-0.04	ppb	13.41	2500	
137 Ba	115	1	12.60	12.60	ppb	2.43	10000	
205 Tl	209	1	-0.21	-0.21	ppb	3.93	12500	
207 Pb	209	1	0.02	0.02	ppb	43.52	12500	
232 Th	209	1	-0.01	-0.01	ppb	119.51	550	
238 U	209	1	0.12	0.12	ppb	3.40	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	791724	2.74	775171	102.1	60 - 120	
89 Y	1	2636476	0.90	2551189	103.3	60 - 120	
115 In	1	2792181	0.82	2760750	101.1	60 - 120	
209 Bi	1	3580001	0.93	3514494	101.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\040SMPL.D\040SMPL.D#
Date Acquired: Dec 23 2009 01:55 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-10979-a-12-b
Misc Info:
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.10	0.10	ppb	45.42	550	
9 Be	45	1	0.00	0.00	ppb	595.02	10000	
11 B	45	1	-2.27	-2.27	ppb	46.39	550	
23 Na	45	1	1,027.00	1027.00	ppb	1.63	300000	
24 Mg	45	1	97.91	97.91	ppb	1.86	125000	
27 Al	45	1	1.82	1.82	ppb	13.81	62500	
29 Si	45	1	428.20	428.20	ppb	2.43	12500	
34 S	45	1	750.70	750.70	ppb	7.41	21000	
39 K	45	1	238.70	238.70	ppb	3.10	125000	
44 Ca	45	1	2,142.00	2142.00	ppb	1.94	125000	
47 Ti	45	1	0.07	0.07	ppb	37.49	12500	
51 V	45	1	2.90	2.90	ppb	1.43	12500	
53 Cr	45	1	0.37	0.37	ppb	9.65	12500	
55 Mn	45	1	0.08	0.08	ppb	43.78	12500	
57 Fe	45	1	2.39	2.39	ppb	20.79	65000	
59 Co	89	1	-0.03	-0.03	ppb	22.66	12500	
60 Ni	89	1	0.01	0.01	ppb	88.92	2500	
63 Cu	89	1	0.72	0.72	ppb	3.21	2500	
66 Zn	89	1	0.37	0.37	ppb	10.87	2500	
75 As	89	1	0.25	0.25	ppb	6.91	12500	
78 Se	89	1	0.00	0.00	ppb	6377.40	10000	
90 Zr	89	1	0.67	0.67	ppb	9.41	550	
95 Mo	89	1	0.78	0.78	ppb	2.02	12500	
107 Ag	115	1	0.00	0.00	ppb	358.14	1000	
111 Cd	115	1	0.01	0.01	ppb	7.20	10000	
118 Sn	115	1	-0.06	-0.06	ppb	58.64	2500	
121 Sb	115	1	0.18	0.18	ppb	19.23	2500	
137 Ba	115	1	0.45	0.45	ppb	12.42	10000	
205 Tl	209	1	-0.23	-0.23	ppb	3.34	12500	
207 Pb	209	1	-0.01	-0.01	ppb	207.99	12500	
232 Th	209	1	-0.04	-0.04	ppb	21.47	550	
238 U	209	1	-0.01	-0.01	ppb	70.32	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	810702	1.29	775171	104.6	60 - 120	
89 Y	1	2685322	0.76	2551189	105.3	60 - 120	
115 In	1	2901048	0.76	2760750	105.1	60 - 120	
209 Bi	1	3763171	0.81	3514494	107.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\041SMPL.D\041SMPL.D#
Date Acquired: Dec 23 2009 01:58 pm
Acq. Method: STL5.M
Operator:
Sample Name: mb 220-34465/1-a
Misc Info:
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.07	0.07	ppb	109.73	550	
9 Be	45	1	0.00	0.00	ppb	861.26	10000	
11 B	45	1	-1.89	-1.89	ppb	6.95	550	
23 Na	45	1	19.62	19.62	ppb	55.96	300000	
24 Mg	45	1	1.48	1.48	ppb	88.64	125000	
27 Al	45	1	3.62	3.62	ppb	31.54	62500	
29 Si	45	1	-14.99	-14.99	ppb	47.67	12500	
34 S	45	1	452.60	452.60	ppb	5.82	21000	
39 K	45	1	9.55	9.55	ppb	34.66	125000	
44 Ca	45	1	10.02	10.02	ppb	59.05	125000	
47 Ti	45	1	0.05	0.05	ppb	77.56	12500	
51 V	45	1	0.13	0.13	ppb	13.48	12500	
53 Cr	45	1	0.31	0.31	ppb	17.72	12500	
55 Mn	45	1	-0.04	-0.04	ppb	157.79	12500	
57 Fe	45	1	1.23	1.23	ppb	98.13	65000	
59 Co	89	1	-0.04	-0.04	ppb	15.04	12500	
60 Ni	89	1	-0.02	-0.02	ppb	23.47	2500	
63 Cu	89	1	0.09	0.09	ppb	5.15	2500	
66 Zn	89	1	-0.14	-0.14	ppb	15.62	2500	
75 As	89	1	0.04	0.04	ppb	64.09	12500	
78 Se	89	1	-0.04	-0.04	ppb	638.23	10000	
90 Zr	89	1	0.24	0.24	ppb	6.32	550	
95 Mo	89	1	0.00	0.00	ppb	386.59	12500	
107 Ag	115	1	0.00	0.00	ppb	354.60	1000	
111 Cd	115	1	0.01	0.01	ppb	214.03	10000	
118 Sn	115	1	0.23	0.23	ppb	5.31	2500	
121 Sb	115	1	-0.07	-0.07	ppb	37.99	2500	
137 Ba	115	1	0.01	0.01	ppb	423.64	10000	
205 Tl	209	1	-0.22	-0.22	ppb	4.04	12500	
207 Pb	209	1	0.00	0.00	ppb	1050.60	12500	
232 Th	209	1	-0.06	-0.06	ppb	2.22	550	
238 U	209	1	-0.01	-0.01	ppb	119.79	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	777500	0.19	775171	100.3	60 - 120	
89 Y	1	2593241	1.61	2551189	101.6	60 - 120	
115 In	1	2821524	1.55	2760750	102.2	60 - 120	
209 Bi	1	3760163	0.93	3514494	107.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\042SMPL.D\042SMPL.D#
Date Acquired: Dec 23 2009 02:02 pm
Acq. Method: STL5.M
Operator:
Sample Name: lcs 220-34465/2-a
Misc Info:
Vial Number: 2507
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.12	0.12	ppb	41.96	550	
9 Be	45	1	24.98	24.98	ppb	2.55	10000	
11 B	45	1	231.70	231.70	ppb	1.65	550	
23 Na	45	1	7,107.00	7107.00	ppb	2.86	300000	
24 Mg	45	1	3,497.00	3497.00	ppb	2.72	125000	
27 Al	45	1	1,466.00	1466.00	ppb	1.18	62500	
29 Si	45	1	196.60	196.60	ppb	6.90	12500	
34 S	45	1	349.70	349.70	ppb	12.77	21000	
39 K	45	1	4,977.00	4977.00	ppb	2.48	125000	
44 Ca	45	1	6,758.00	6758.00	ppb	2.31	125000	
47 Ti	45	1	237.80	237.80	ppb	1.58	12500	
51 V	45	1	73.22	73.22	ppb	1.91	12500	
53 Cr	45	1	68.84	68.84	ppb	1.86	12500	
55 Mn	45	1	48.42	48.42	ppb	2.66	12500	
57 Fe	45	1	5,443.00	5443.00	ppb	1.98	65000	
59 Co	89	1	75.73	75.73	ppb	0.65	12500	
60 Ni	89	1	72.44	72.44	ppb	1.06	2500	
63 Cu	89	1	73.54	73.54	ppb	0.61	2500	
66 Zn	89	1	72.04	72.04	ppb	0.24	2500	
75 As	89	1	242.10	242.10	ppb	0.76	12500	
78 Se	89	1	117.70	117.70	ppb	0.94	10000	
90 Zr	89	1	241.20	241.20	ppb	0.34	550	
95 Mo	89	1	233.10	233.10	ppb	0.56	12500	
107 Ag	115	1	73.22	73.22	ppb	0.90	1000	
111 Cd	115	1	69.65	69.65	ppb	0.63	10000	
118 Sn	115	1	228.60	228.60	ppb	0.92	2500	
121 Sb	115	1	246.60	246.60	ppb	1.35	2500	
137 Ba	115	1	68.25	68.25	ppb	0.86	10000	
205 Tl	209	1	216.20	216.20	ppb	0.88	12500	
207 Pb	209	1	238.60	238.60	ppb	1.82	12500	
232 Th	209	1	0.33	0.33	ppb	2.80	550	
238 U	209	1	17.90	17.90	ppb	1.24	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	796490	2.44	775171	102.8	60 - 120	
89 Y	1	2610467	0.52	2551189	102.3	60 - 120	
115 In	1	2821605	0.69	2760750	102.2	60 - 120	
209 Bi	1	3739994	1.45	3514494	106.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\043SMPL.D\043SMPL.D#
Date Acquired: Dec 23 2009 02:05 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-7-b
Misc Info:
Vial Number: 2508
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	26.74	26.74	ppb	2.29	550	
9 Be	45	1	0.93	0.93	ppb	1.89	10000	
11 B	45	1	6.43	6.43	ppb	28.43	550	
23 Na	45	1	79.07	79.07	ppb	12.50	300000	
24 Mg	45	1	5,629.00	5629.00	ppb	0.56	125000	
27 Al	45	1	11,750.00	11750.00	ppb	0.44	62500	
29 Si	45	1	760.60	760.60	ppb	2.50	12500	
34 S	45	1	480.30	480.30	ppb	20.77	21000	
39 K	45	1	1,148.00	1148.00	ppb	0.51	125000	
44 Ca	45	1	3,791.00	3791.00	ppb	1.44	125000	
47 Ti	45	1	283.60	283.60	ppb	1.76	12500	
51 V	45	1	27.28	27.28	ppb	0.15	12500	
53 Cr	45	1	22.39	22.39	ppb	0.85	12500	
55 Mn	45	1	547.90	547.90	ppb	0.26	12500	
57 Fe	45	1	18,200.00	18200.00	ppb	0.64	65000	
59 Co	89	1	9.59	9.59	ppb	0.78	12500	
60 Ni	89	1	26.00	26.00	ppb	1.01	2500	
63 Cu	89	1	74.10	74.10	ppb	1.11	2500	
66 Zn	89	1	142.80	142.80	ppb	0.69	2500	
75 As	89	1	5.54	5.54	ppb	4.65	12500	
78 Se	89	1	1.82	1.82	ppb	22.15	10000	
90 Zr	89	1	8.19	8.19	ppb	9.18	550	
95 Mo	89	1	4.14	4.14	ppb	3.72	12500	
107 Ag	115	1	8.11	8.11	ppb	1.34	1000	
111 Cd	115	1	1.26	1.26	ppb	5.03	10000	
118 Sn	115	1	10.26	10.26	ppb	1.63	2500	
121 Sb	115	1	1.56	1.56	ppb	2.30	2500	
137 Ba	115	1	96.54	96.54	ppb	0.36	10000	
205 Tl	209	1	0.80	0.80	ppb	18.23	12500	
207 Pb	209	1	68.44	68.44	ppb	0.76	12500	
232 Th	209	1	3.33	3.33	ppb	1.14	550	
238 U	209	1	10.25	10.25	ppb	0.92	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	807363	0.98	775171	104.2	60 - 120	
89 Y	1	2746862	0.18	2551189	107.7	60 - 120	
115 In	1	2781689	0.59	2760750	100.8	60 - 120	
209 Bi	1	3683057	0.33	3514494	104.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\044SMPL.D\044SMPL.D#
Date Acquired: Dec 23 2009 02:09 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-7-c du
Misc Info:
Vial Number: 2509
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	27.54	27.54	ppb	1.53	550	
9 Be	45	1	0.87	0.87	ppb	12.44	10000	
11 B	45	1	4.50	4.50	ppb	41.74	550	
23 Na	45	1	98.91	98.91	ppb	1.56	300000	
24 Mg	45	1	4,693.00	4693.00	ppb	0.36	125000	
27 Al	45	1	12,180.00	12180.00	ppb	0.94	62500	
29 Si	45	1	730.20	730.20	ppb	2.59	12500	
34 S	45	1	485.70	485.70	ppb	16.74	21000	
39 K	45	1	1,174.00	1174.00	ppb	2.16	125000	
44 Ca	45	1	3,444.00	3444.00	ppb	1.73	125000	
47 Ti	45	1	370.10	370.10	ppb	0.71	12500	
51 V	45	1	34.26	34.26	ppb	0.83	12500	
53 Cr	45	1	23.29	23.29	ppb	0.50	12500	
55 Mn	45	1	550.30	550.30	ppb	0.74	12500	
57 Fe	45	1	24,220.00	24220.00	ppb	0.94	65000	
59 Co	89	1	9.46	9.46	ppb	1.33	12500	
60 Ni	89	1	24.57	24.57	ppb	1.16	2500	
63 Cu	89	1	103.60	103.60	ppb	1.41	2500	
66 Zn	89	1	135.30	135.30	ppb	0.93	2500	
75 As	89	1	10.05	10.05	ppb	1.79	12500	
78 Se	89	1	1.56	1.56	ppb	18.53	10000	
90 Zr	89	1	6.67	6.67	ppb	2.66	550	
95 Mo	89	1	3.71	3.71	ppb	0.58	12500	
107 Ag	115	1	7.90	7.90	ppb	0.62	1000	
111 Cd	115	1	1.47	1.47	ppb	2.79	10000	
118 Sn	115	1	7.22	7.22	ppb	0.48	2500	
121 Sb	115	1	1.04	1.04	ppb	0.78	2500	
137 Ba	115	1	88.60	88.60	ppb	1.06	10000	
205 Tl	209	1	0.07	0.07	ppb	36.11	12500	
207 Pb	209	1	40.42	40.42	ppb	0.51	12500	
232 Th	209	1	4.73	4.73	ppb	1.15	550	
238 U	209	1	10.08	10.08	ppb	0.71	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	813940	1.42	775171	105.0	60 - 120	
89 Y	1	2740560	0.57	2551189	107.4	60 - 120	
115 In	1	2799037	0.48	2760750	101.4	60 - 120	
209 Bi	1	3674594	0.70	3514494	104.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\045SMPL.D\045SMPL.D#
Date Acquired: Dec 23 2009 02:12 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-7-d ms
Misc Info:
Vial Number: 2510
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	39.17	39.17	ppb	2.19	550	
9 Be	45	1	6.17	6.17	ppb	1.47	10000	
11 B	45	1	53.61	53.61	ppb	3.60	550	
23 Na	45	1	536.40	536.40	ppb	1.12	300000	
24 Mg	45	1	5,602.00	5602.00	ppb	0.38	125000	
27 Al	45	1	20,300.00	20300.00	ppb	0.10	62500	
29 Si	45	1	798.70	798.70	ppb	1.65	12500	
34 S	45	1	285.80	285.80	ppb	14.48	21000	
39 K	45	1	2,239.00	2239.00	ppb	0.09	125000	
44 Ca	45	1	2,383.00	2383.00	ppb	0.30	125000	
47 Ti	45	1	477.40	477.40	ppb	0.59	12500	
51 V	45	1	87.85	87.85	ppb	0.88	12500	
53 Cr	45	1	35.47	35.47	ppb	0.41	12500	
55 Mn	45	1	410.50	410.50	ppb	0.34	12500	
57 Fe	45	1	29,530.00	29530.00	ppb	0.17	65000	
59 Co	89	1	32.77	32.77	ppb	0.52	12500	
60 Ni	89	1	49.15	49.15	ppb	0.56	2500	
63 Cu	89	1	120.90	120.90	ppb	0.11	2500	
66 Zn	89	1	131.90	131.90	ppb	0.50	2500	
75 As	89	1	57.96	57.96	ppb	0.27	12500	
78 Se	89	1	24.43	24.43	ppb	7.41	10000	
90 Zr	89	1	63.51	63.51	ppb	3.00	550	
95 Mo	89	1	52.81	52.81	ppb	0.23	12500	
107 Ag	115	1	22.85	22.85	ppb	0.59	1000	
111 Cd	115	1	16.72	16.72	ppb	0.94	10000	
118 Sn	115	1	59.14	59.14	ppb	0.47	2500	
121 Sb	115	1	36.43	36.43	ppb	0.80	2500	
137 Ba	115	1	173.40	173.40	ppb	0.33	10000	
205 Tl	209	1	50.43	50.43	ppb	1.84	12500	
207 Pb	209	1	79.32	79.32	ppb	1.13	12500	
232 Th	209	1	4.49	4.49	ppb	1.63	550	
238 U	209	1	28.47	28.47	ppb	0.49	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	837694	0.78	775171	108.1	60 - 120	
89 Y	1	2726149	0.46	2551189	106.9	60 - 120	
115 In	1	2785403	0.73	2760750	100.9	60 - 120	
209 Bi	1	3615697	0.49	3514494	102.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\046SMPL.D\046SMPL.D#
Date Acquired: Dec 23 2009 02:16 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 2511
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	83.86	83.86	ppb	0.86	550	
9 Be	45	1	121.70	121.70	ppb	2.05	10000	
11 B	45	1	188.80	188.80	ppb	0.23	550	
23 Na	45	1	2,082.00	2082.00	ppb	1.09	300000	
24 Mg	45	1	2,610.00	2610.00	ppb	1.21	125000	
27 Al	45	1	3,728.00	3728.00	ppb	0.56	62500	
29 Si	45	1	147.00	147.00	ppb	4.01	12500	
34 S	45	1	10,850.00	10850.00	ppb	2.04	21000	
39 K	45	1	4,187.00	4187.00	ppb	1.46	125000	
44 Ca	45	1	2,526.00	2526.00	ppb	1.20	125000	
47 Ti	45	1	197.60	197.60	ppb	1.13	12500	
51 V	45	1	61.26	61.26	ppb	1.71	12500	
53 Cr	45	1	57.95	57.95	ppb	0.59	12500	
55 Mn	45	1	41.18	41.18	ppb	1.49	12500	
57 Fe	45	1	975.10	975.10	ppb	1.09	65000	
59 Co	89	1	63.62	63.62	ppb	1.08	12500	
60 Ni	89	1	60.63	60.63	ppb	0.60	2500	
63 Cu	89	1	61.99	61.99	ppb	0.42	2500	
66 Zn	89	1	61.22	61.22	ppb	0.19	2500	
75 As	89	1	202.60	202.60	ppb	1.17	12500	
78 Se	89	1	98.07	98.07	ppb	1.17	10000	
90 Zr	89	1	177.00	177.00	ppb	3.40	550	
95 Mo	89	1	197.30	197.30	ppb	0.87	12500	
107 Ag	115	1	62.65	62.65	ppb	0.49	1000	
111 Cd	115	1	59.34	59.34	ppb	0.60	10000	
118 Sn	115	1	193.00	193.00	ppb	0.73	2500	
121 Sb	115	1	202.90	202.90	ppb	1.15	2500	
137 Ba	115	1	57.88	57.88	ppb	0.75	10000	
205 Tl	209	1	192.20	192.20	ppb	1.36	12500	
207 Pb	209	1	205.60	205.60	ppb	1.33	12500	
232 Th	209	1	72.11	72.11	ppb	1.38	550	
238 U	209	1	74.18	74.18	ppb	1.71	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	781135	1.40	775171	100.8	60 - 120	
89 Y	1	2582969	0.64	2551189	101.2	60 - 120	
115 In	1	2813424	0.44	2760750	101.9	60 - 120	
209 Bi	1	3633874	1.98	3514494	103.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\047SMPL.D\047SMPL.D#
Date Acquired: Dec 23 2009 02:22 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.02	0.02	ppb	320.87	550	
9 Be	45	1	0.00	0.00	ppb	1192.50	10000	
11 B	45	1	-2.70	-2.70	ppb	31.90	550	
23 Na	45	1	6.91	6.91	ppb	17.18	300000	
24 Mg	45	1	2.13	2.13	ppb	19.95	125000	
27 Al	45	1	3.58	3.58	ppb	24.50	62500	
29 Si	45	1	-0.93	-0.93	ppb	353.61	12500	
34 S	45	1	349.30	349.30	ppb	1.63	21000	
39 K	45	1	8.62	8.62	ppb	3.88	125000	
44 Ca	45	1	5.37	5.37	ppb	16.42	125000	
47 Ti	45	1	0.11	0.11	ppb	63.20	12500	
51 V	45	1	0.03	0.03	ppb	22.20	12500	
53 Cr	45	1	0.03	0.03	ppb	125.81	12500	
55 Mn	45	1	0.10	0.10	ppb	34.95	12500	
57 Fe	45	1	6.08	6.08	ppb	11.58	65000	
59 Co	89	1	0.03	0.03	ppb	12.16	12500	
60 Ni	89	1	-0.02	-0.02	ppb	63.62	2500	
63 Cu	89	1	-0.15	-0.15	ppb	7.85	2500	
66 Zn	89	1	-0.41	-0.41	ppb	4.92	2500	
75 As	89	1	0.06	0.06	ppb	31.36	12500	
78 Se	89	1	0.00	0.00	ppb	13727.00	10000	
90 Zr	89	1	-0.02	-0.02	ppb	21.29	550	
95 Mo	89	1	0.51	0.51	ppb	16.81	12500	
107 Ag	115	1	0.01	0.01	ppb	62.91	1000	
111 Cd	115	1	0.01	0.01	ppb	95.13	10000	
118 Sn	115	1	1.23	1.23	ppb	12.35	2500	
121 Sb	115	1	0.42	0.42	ppb	1.09	2500	
137 Ba	115	1	0.00	0.00	ppb	25.29	10000	
205 Tl	209	1	-0.10	-0.10	ppb	18.38	12500	
207 Pb	209	1	0.08	0.08	ppb	25.69	12500	
232 Th	209	1	0.38	0.38	ppb	8.03	550	
238 U	209	1	0.01	0.01	ppb	17.26	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	724124	1.37	775171	93.4	60 - 120	
89 Y	1	2483876	1.47	2551189	97.4	60 - 120	
115 In	1	2747991	1.28	2760750	99.5	60 - 120	
209 Bi	1	3634026	1.06	3514494	103.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\048SMPL.D\048SMPL.D#
Date Acquired: Dec 23 2009 02:26 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-7-b pds
Misc Info:
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	31.07	31.07	ppb	3.35	550	
9 Be	45	1	5.62	5.62	ppb	5.94	10000	
11 B	45	1	8.05	8.05	ppb	5.36	550	
23 Na	45	1	124.90	124.90	ppb	2.73	300000	
24 Mg	45	1	5,635.00	5635.00	ppb	0.19	125000	
27 Al	45	1	11,740.00	11740.00	ppb	0.43	62500	
29 Si	45	1	756.60	756.60	ppb	1.43	12500	
34 S	45	1	469.50	469.50	ppb	4.27	21000	
39 K	45	1	1,177.00	1177.00	ppb	0.89	125000	
44 Ca	45	1	3,795.00	3795.00	ppb	1.13	125000	
47 Ti	45	1	287.20	287.20	ppb	0.76	12500	
51 V	45	1	32.04	32.04	ppb	0.95	12500	
53 Cr	45	1	26.70	26.70	ppb	0.64	12500	
55 Mn	45	1	551.40	551.40	ppb	1.86	12500	
57 Fe	45	1	18,180.00	18180.00	ppb	0.94	65000	
59 Co	89	1	14.21	14.21	ppb	0.58	12500	
60 Ni	89	1	30.14	30.14	ppb	0.40	2500	
63 Cu	89	1	77.43	77.43	ppb	0.52	2500	
66 Zn	89	1	146.00	146.00	ppb	0.22	2500	
75 As	89	1	9.68	9.68	ppb	2.57	12500	
78 Se	89	1	5.88	5.88	ppb	7.57	10000	
90 Zr	89	1	11.12	11.12	ppb	3.96	550	
95 Mo	89	1	7.02	7.02	ppb	1.44	12500	
107 Ag	115	1	13.07	13.07	ppb	0.37	1000	
111 Cd	115	1	6.06	6.06	ppb	2.17	10000	
118 Sn	115	1	12.26	12.26	ppb	0.55	2500	
121 Sb	115	1	10.25	10.25	ppb	1.07	2500	
137 Ba	115	1	101.70	101.70	ppb	0.94	10000	
205 Tl	209	1	4.66	4.66	ppb	0.22	12500	
207 Pb	209	1	72.46	72.46	ppb	0.69	12500	
232 Th	209	1	8.19	8.19	ppb	1.68	550	
238 U	209	1	14.75	14.75	ppb	0.52	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	790067	1.39	775171	101.9	60 - 120	
89 Y	1	2725417	0.51	2551189	106.8	60 - 120	
115 In	1	2779148	0.42	2760750	100.7	60 - 120	
209 Bi	1	3669206	0.54	3514494	104.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\049SMPL.D\049SMPL.D#
Date Acquired: Dec 23 2009 02:29 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-7-b sd@5
Misc Info:
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	5.25	5.25	ppb	3.27	550	
9 Be	45	1	0.22	0.22	ppb	30.95	10000	
11 B	45	1	-1.37	-1.37	ppb	36.91	550	
23 Na	45	1	16.51	16.51	ppb	7.60	300000	
24 Mg	45	1	1,192.00	1192.00	ppb	1.49	125000	
27 Al	45	1	2,507.00	2507.00	ppb	1.33	62500	
29 Si	45	1	143.00	143.00	ppb	9.14	12500	
34 S	45	1	136.60	136.60	ppb	41.24	21000	
39 K	45	1	290.50	290.50	ppb	2.01	125000	
44 Ca	45	1	773.20	773.20	ppb	1.72	125000	
47 Ti	45	1	58.77	58.77	ppb	1.86	12500	
51 V	45	1	5.65	5.65	ppb	1.41	12500	
53 Cr	45	1	4.61	4.61	ppb	4.95	12500	
55 Mn	45	1	117.10	117.10	ppb	1.92	12500	
57 Fe	45	1	3,962.00	3962.00	ppb	0.66	65000	
59 Co	89	1	1.96	1.96	ppb	0.89	12500	
60 Ni	89	1	5.46	5.46	ppb	1.33	2500	
63 Cu	89	1	15.61	15.61	ppb	1.31	2500	
66 Zn	89	1	31.35	31.35	ppb	1.15	2500	
75 As	89	1	1.22	1.22	ppb	6.87	12500	
78 Se	89	1	0.42	0.42	ppb	68.53	10000	
90 Zr	89	1	1.05	1.05	ppb	68.04	550	
95 Mo	89	1	0.56	0.56	ppb	2.09	12500	
107 Ag	115	1	1.65	1.65	ppb	1.28	1000	
111 Cd	115	1	0.26	0.26	ppb	4.84	10000	
118 Sn	115	1	1.49	1.49	ppb	3.21	2500	
121 Sb	115	1	0.35	0.35	ppb	9.86	2500	
137 Ba	115	1	19.52	19.52	ppb	0.57	10000	
205 Tl	209	1	-0.21	-0.21	ppb	6.27	12500	
207 Pb	209	1	13.97	13.97	ppb	2.59	12500	
232 Th	209	1	0.60	0.60	ppb	0.70	550	
238 U	209	1	2.07	2.07	ppb	3.83	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	760433	0.70	775171	98.1	60 - 120	
89 Y	1	2591182	1.25	2551189	101.6	60 - 120	
115 In	1	2795413	0.87	2760750	101.3	60 - 120	
209 Bi	1	3658818	1.56	3514494	104.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\050SMPL.D\050SMPL.D#
Date Acquired: Dec 23 2009 02:33 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-1-c
Misc Info:
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.68	10.68	ppb	4.53	550	
9 Be	45	1	0.37	0.37	ppb	17.53	10000	
11 B	45	1	-1.08	-1.08	ppb	174.56	550	
23 Na	45	1	81.80	81.80	ppb	3.50	300000	
24 Mg	45	1	2,627.00	2627.00	ppb	0.35	125000	
27 Al	45	1	9,755.00	9755.00	ppb	0.49	62500	
29 Si	45	1	980.80	980.80	ppb	1.67	12500	
34 S	45	1	237.70	237.70	ppb	38.86	21000	
39 K	45	1	989.00	989.00	ppb	0.93	125000	
44 Ca	45	1	1,041.00	1041.00	ppb	0.37	125000	
47 Ti	45	1	337.20	337.20	ppb	0.31	12500	
51 V	45	1	22.80	22.80	ppb	0.44	12500	
53 Cr	45	1	15.16	15.16	ppb	1.41	12500	
55 Mn	45	1	330.20	330.20	ppb	1.05	12500	
57 Fe	45	1	14,100.00	14100.00	ppb	0.83	65000	
59 Co	89	1	7.50	7.50	ppb	0.28	12500	
60 Ni	89	1	21.70	21.70	ppb	0.62	2500	
63 Cu	89	1	14.71	14.71	ppb	0.69	2500	
66 Zn	89	1	30.53	30.53	ppb	1.27	2500	
75 As	89	1	2.71	2.71	ppb	1.85	12500	
78 Se	89	1	1.09	1.09	ppb	18.53	10000	
90 Zr	89	1	2.24	2.24	ppb	1.00	550	
95 Mo	89	1	0.34	0.34	ppb	3.66	12500	
107 Ag	115	1	0.02	0.02	ppb	41.65	1000	
111 Cd	115	1	0.05	0.05	ppb	49.75	10000	
118 Sn	115	1	1.03	1.03	ppb	9.32	2500	
121 Sb	115	1	0.07	0.07	ppb	50.39	2500	
137 Ba	115	1	43.10	43.10	ppb	0.75	10000	
205 Tl	209	1	-0.13	-0.13	ppb	4.48	12500	
207 Pb	209	1	11.80	11.80	ppb	1.28	12500	
232 Th	209	1	3.46	3.46	ppb	1.65	550	
238 U	209	1	0.80	0.80	ppb	0.82	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	785582	0.48	775171	101.3	60 - 120	
89 Y	1	2701485	0.53	2551189	105.9	60 - 120	
115 In	1	2754796	0.52	2760750	99.8	60 - 120	
209 Bi	1	3745531	1.30	3514494	106.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\051SMPL.D\051SMPL.D#
Date Acquired: Dec 23 2009 02:36 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-6-c
Misc Info:
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.67	10.67	ppb	3.91	550	
9 Be	45	1	0.42	0.42	ppb	28.28	10000	
11 B	45	1	-2.74	-2.74	ppb	44.67	550	
23 Na	45	1	143.90	143.90	ppb	1.36	300000	
24 Mg	45	1	3,414.00	3414.00	ppb	0.39	125000	
27 Al	45	1	11,040.00	11040.00	ppb	0.62	62500	
29 Si	45	1	517.00	517.00	ppb	3.44	12500	
34 S	45	1	171.00	171.00	ppb	60.53	21000	
39 K	45	1	1,432.00	1432.00	ppb	2.14	125000	
44 Ca	45	1	2,041.00	2041.00	ppb	1.78	125000	
47 Ti	45	1	483.70	483.70	ppb	0.70	12500	
51 V	45	1	27.79	27.79	ppb	0.87	12500	
53 Cr	45	1	20.64	20.64	ppb	2.28	12500	
55 Mn	45	1	357.50	357.50	ppb	1.08	12500	
57 Fe	45	1	16,040.00	16040.00	ppb	0.67	65000	
59 Co	89	1	7.07	7.07	ppb	0.70	12500	
60 Ni	89	1	36.20	36.20	ppb	1.10	2500	
63 Cu	89	1	19.37	19.37	ppb	0.27	2500	
66 Zn	89	1	38.52	38.52	ppb	0.46	2500	
75 As	89	1	3.26	3.26	ppb	2.08	12500	
78 Se	89	1	1.25	1.25	ppb	9.35	10000	
90 Zr	89	1	3.03	3.03	ppb	1.14	550	
95 Mo	89	1	0.45	0.45	ppb	7.17	12500	
107 Ag	115	1	0.02	0.02	ppb	4.94	1000	
111 Cd	115	1	0.05	0.05	ppb	37.49	10000	
118 Sn	115	1	0.71	0.71	ppb	5.58	2500	
121 Sb	115	1	-0.02	-0.02	ppb	81.14	2500	
137 Ba	115	1	53.22	53.22	ppb	0.31	10000	
205 Tl	209	1	-0.12	-0.12	ppb	3.35	12500	
207 Pb	209	1	12.34	12.34	ppb	0.86	12500	
232 Th	209	1	4.45	4.45	ppb	2.11	550	
238 U	209	1	0.92	0.92	ppb	0.31	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	784918	1.12	775171	101.3	60 - 120	
89 Y	1	2703308	0.36	2551189	106.0	60 - 120	
115 In	1	2763300	0.36	2760750	100.1	60 - 120	
209 Bi	1	3682280	0.96	3514494	104.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\052SMPL.D\052SMPL.D#
Date Acquired: Dec 23 2009 02:40 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-11-c
Misc Info:
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.17	13.17	ppb	3.28	550	
9 Be	45	1	0.63	0.63	ppb	18.59	10000	
11 B	45	1	-1.86	-1.86	ppb	79.77	550	
23 Na	45	1	317.60	317.60	ppb	1.06	300000	
24 Mg	45	1	9,103.00	9103.00	ppb	0.25	125000	
27 Al	45	1	11,710.00	11710.00	ppb	0.71	62500	
29 Si	45	1	1,042.00	1042.00	ppb	0.96	12500	
34 S	45	1	275.70	275.70	ppb	46.61	21000	
39 K	45	1	2,040.00	2040.00	ppb	1.44	125000	
44 Ca	45	1	10,450.00	10450.00	ppb	0.90	125000	
47 Ti	45	1	631.90	631.90	ppb	0.88	12500	
51 V	45	1	33.04	33.04	ppb	0.52	12500	
53 Cr	45	1	32.27	32.27	ppb	0.93	12500	
55 Mn	45	1	521.00	521.00	ppb	1.49	12500	
57 Fe	45	1	18,300.00	18300.00	ppb	0.14	65000	
59 Co	89	1	10.19	10.19	ppb	0.77	12500	
60 Ni	89	1	45.78	45.78	ppb	0.74	2500	
63 Cu	89	1	26.07	26.07	ppb	0.39	2500	
66 Zn	89	1	51.26	51.26	ppb	0.44	2500	
75 As	89	1	3.49	3.49	ppb	1.19	12500	
78 Se	89	1	1.40	1.40	ppb	6.98	10000	
90 Zr	89	1	3.90	3.90	ppb	0.76	550	
95 Mo	89	1	1.83	1.83	ppb	1.02	12500	
107 Ag	115	1	0.03	0.03	ppb	33.94	1000	
111 Cd	115	1	0.08	0.08	ppb	8.83	10000	
118 Sn	115	1	0.88	0.88	ppb	6.66	2500	
121 Sb	115	1	-0.01	-0.01	ppb	42.89	2500	
137 Ba	115	1	62.01	62.01	ppb	0.83	10000	
205 Tl	209	1	-0.11	-0.11	ppb	4.81	12500	
207 Pb	209	1	12.88	12.88	ppb	1.03	12500	
232 Th	209	1	5.68	5.68	ppb	0.57	550	
238 U	209	1	1.17	1.17	ppb	1.26	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	777072	1.29	775171	100.2	60 - 120	
89 Y	1	2693200	0.79	2551189	105.6	60 - 120	
115 In	1	2711300	0.38	2760750	98.2	60 - 120	
209 Bi	1	3553631	1.35	3514494	101.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\053SMPL.D\053SMPL.D#
Date Acquired: Dec 23 2009 02:43 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-16-c
Misc Info:
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.49	12.49	ppb	2.65	550	
9 Be	45	1	0.50	0.50	ppb	15.50	10000	
11 B	45	1	-0.78	-0.78	ppb	177.14	550	
23 Na	45	1	124.60	124.60	ppb	2.98	300000	
24 Mg	45	1	3,308.00	3308.00	ppb	0.40	125000	
27 Al	45	1	10,060.00	10060.00	ppb	0.44	62500	
29 Si	45	1	990.30	990.30	ppb	2.74	12500	
34 S	45	1	284.10	284.10	ppb	5.81	21000	
39 K	45	1	1,155.00	1155.00	ppb	1.35	125000	
44 Ca	45	1	2,132.00	2132.00	ppb	0.98	125000	
47 Ti	45	1	390.30	390.30	ppb	1.04	12500	
51 V	45	1	27.10	27.10	ppb	0.78	12500	
53 Cr	45	1	16.08	16.08	ppb	1.97	12500	
55 Mn	45	1	468.30	468.30	ppb	0.98	12500	
57 Fe	45	1	13,870.00	13870.00	ppb	1.38	65000	
59 Co	89	1	7.23	7.23	ppb	1.14	12500	
60 Ni	89	1	30.25	30.25	ppb	1.28	2500	
63 Cu	89	1	17.54	17.54	ppb	0.92	2500	
66 Zn	89	1	39.38	39.38	ppb	0.54	2500	
75 As	89	1	3.18	3.18	ppb	1.29	12500	
78 Se	89	1	1.18	1.18	ppb	23.83	10000	
90 Zr	89	1	3.13	3.13	ppb	1.97	550	
95 Mo	89	1	0.30	0.30	ppb	4.15	12500	
107 Ag	115	1	0.03	0.03	ppb	39.99	1000	
111 Cd	115	1	0.09	0.09	ppb	8.31	10000	
118 Sn	115	1	1.08	1.08	ppb	2.74	2500	
121 Sb	115	1	-0.03	-0.03	ppb	125.13	2500	
137 Ba	115	1	53.75	53.75	ppb	1.40	10000	
205 Tl	209	1	-0.14	-0.14	ppb	18.41	12500	
207 Pb	209	1	29.67	29.67	ppb	1.46	12500	
232 Th	209	1	4.54	4.54	ppb	1.26	550	
238 U	209	1	1.00	1.00	ppb	1.13	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	774362	0.62	775171	99.9	60 - 120	
89 Y	1	2667331	1.14	2551189	104.6	60 - 120	
115 In	1	2753271	0.69	2760750	99.7	60 - 120	
209 Bi	1	3634768	1.42	3514494	103.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\054SMPL.D\054SMPL.D#
Date Acquired: Dec 23 2009 02:47 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-21-c
Misc Info:
Vial Number: 3107
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	9.25	9.25	ppb	4.16	550	
9 Be	45	1	0.42	0.42	ppb	10.28	10000	
11 B	45	1	-0.88	-0.88	ppb	188.56	550	
23 Na	45	1	148.40	148.40	ppb	2.09	300000	
24 Mg	45	1	36,740.00	36740.00	ppb	1.16	125000	
27 Al	45	1	8,862.00	8862.00	ppb	0.70	62500	
29 Si	45	1	1,039.00	1039.00	ppb	2.68	12500	
34 S	45	1	822.10	822.10	ppb	11.72	21000	
39 K	45	1	965.00	965.00	ppb	2.81	125000	
44 Ca	45	1	53,370.00	53370.00	ppb	1.73	125000	
47 Ti	45	1	296.10	296.10	ppb	2.24	12500	
51 V	45	1	24.83	24.83	ppb	1.93	12500	
53 Cr	45	1	14.03	14.03	ppb	3.43	12500	
55 Mn	45	1	360.30	360.30	ppb	1.24	12500	
57 Fe	45	1	12,100.00	12100.00	ppb	1.74	65000	
59 Co	89	1	6.09	6.09	ppb	0.46	12500	
60 Ni	89	1	18.55	18.55	ppb	0.66	2500	
63 Cu	89	1	14.71	14.71	ppb	0.90	2500	
66 Zn	89	1	28.75	28.75	ppb	1.16	2500	
75 As	89	1	2.98	2.98	ppb	4.80	12500	
78 Se	89	1	1.11	1.11	ppb	11.76	10000	
90 Zr	89	1	2.21	2.21	ppb	3.33	550	
95 Mo	89	1	0.43	0.43	ppb	5.15	12500	
107 Ag	115	1	0.04	0.04	ppb	21.82	1000	
111 Cd	115	1	0.05	0.05	ppb	29.20	10000	
118 Sn	115	1	0.77	0.77	ppb	3.34	2500	
121 Sb	115	1	0.01	0.01	ppb	219.10	2500	
137 Ba	115	1	41.74	41.74	ppb	1.29	10000	
205 Tl	209	1	-0.14	-0.14	ppb	5.44	12500	
207 Pb	209	1	19.71	19.71	ppb	0.89	12500	
232 Th	209	1	3.27	3.27	ppb	2.59	550	
238 U	209	1	0.69	0.69	ppb	2.24	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	794430	3.12	775171	102.5	60 - 120	
89 Y	1	2688795	1.26	2551189	105.4	60 - 120	
115 In	1	2679264	0.35	2760750	97.0	60 - 120	
209 Bi	1	3415056	1.41	3514494	97.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\055SMPL.D\055SMPL.D#
Date Acquired: Dec 23 2009 02:50 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-26-c
Misc Info:
Vial Number: 3108
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.37	13.37	ppb	1.61	550	
9 Be	45	1	0.48	0.48	ppb	13.30	10000	
11 B	45	1	-1.26	-1.26	ppb	5.78	550	
23 Na	45	1	157.90	157.90	ppb	1.52	300000	
24 Mg	45	1	5,035.00	5035.00	ppb	0.83	125000	
27 Al	45	1	10,160.00	10160.00	ppb	0.33	62500	
29 Si	45	1	1,152.00	1152.00	ppb	1.15	12500	
34 S	45	1	451.70	451.70	ppb	28.36	21000	
39 K	45	1	2,693.00	2693.00	ppb	1.44	125000	
44 Ca	45	1	2,207.00	2207.00	ppb	1.79	125000	
47 Ti	45	1	793.90	793.90	ppb	1.13	12500	
51 V	45	1	29.73	29.73	ppb	1.23	12500	
53 Cr	45	1	20.67	20.67	ppb	1.20	12500	
55 Mn	45	1	402.00	402.00	ppb	0.81	12500	
57 Fe	45	1	18,130.00	18130.00	ppb	0.82	65000	
59 Co	89	1	9.40	9.40	ppb	0.37	12500	
60 Ni	89	1	26.56	26.56	ppb	1.03	2500	
63 Cu	89	1	20.33	20.33	ppb	0.51	2500	
66 Zn	89	1	52.59	52.59	ppb	0.85	2500	
75 As	89	1	1.32	1.32	ppb	1.83	12500	
78 Se	89	1	1.77	1.77	ppb	22.15	10000	
90 Zr	89	1	2.13	2.13	ppb	1.19	550	
95 Mo	89	1	0.03	0.03	ppb	11.66	12500	
107 Ag	115	1	0.02	0.02	ppb	48.49	1000	
111 Cd	115	1	0.11	0.11	ppb	6.92	10000	
118 Sn	115	1	0.55	0.55	ppb	2.05	2500	
121 Sb	115	1	-0.11	-0.11	ppb	10.96	2500	
137 Ba	115	1	68.52	68.52	ppb	0.87	10000	
205 Tl	209	1	-0.09	-0.09	ppb	7.73	12500	
207 Pb	209	1	6.23	6.23	ppb	1.74	12500	
232 Th	209	1	5.82	5.82	ppb	0.79	550	
238 U	209	1	0.79	0.79	ppb	2.24	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	820808	0.78	775171	105.9	60 - 120	
89 Y	1	2787089	0.53	2551189	109.2	60 - 120	
115 In	1	2752940	0.45	2760750	99.7	60 - 120	
209 Bi	1	3623210	1.14	3514494	103.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\056SMPL.D\056SMPL.D#
Date Acquired: Dec 23 2009 02:54 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11076-b-31-c
Misc Info:
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.42	12.42	ppb	2.96	550	
9 Be	45	1	0.66	0.66	ppb	7.02	10000	
11 B	45	1	0.59	0.59	ppb	34.14	550	
23 Na	45	1	219.70	219.70	ppb	1.79	300000	
24 Mg	45	1	3,977.00	3977.00	ppb	1.73	125000	
27 Al	45	1	11,360.00	11360.00	ppb	1.75	62500	
29 Si	45	1	1,997.00	1997.00	ppb	2.05	12500	
34 S	45	1	524.30	524.30	ppb	23.35	21000	
39 K	45	1	1,339.00	1339.00	ppb	1.84	125000	
44 Ca	45	1	11,300.00	11300.00	ppb	1.82	125000	
47 Ti	45	1	494.20	494.20	ppb	1.75	12500	
51 V	45	1	53.29	53.29	ppb	1.38	12500	
53 Cr	45	1	24.39	24.39	ppb	2.08	12500	
55 Mn	45	1	362.40	362.40	ppb	0.97	12500	
57 Fe	45	1	19,770.00	19770.00	ppb	1.71	65000	
59 Co	89	1	8.56	8.56	ppb	1.20	12500	
60 Ni	89	1	33.37	33.37	ppb	0.41	2500	
63 Cu	89	1	43.84	43.84	ppb	1.08	2500	
66 Zn	89	1	64.00	64.00	ppb	1.33	2500	
75 As	89	1	8.40	8.40	ppb	0.73	12500	
78 Se	89	1	1.16	1.16	ppb	25.98	10000	
90 Zr	89	1	5.13	5.13	ppb	1.25	550	
95 Mo	89	1	0.69	0.69	ppb	5.28	12500	
107 Ag	115	1	0.03	0.03	ppb	29.57	1000	
111 Cd	115	1	0.08	0.08	ppb	14.19	10000	
118 Sn	115	1	0.78	0.78	ppb	6.42	2500	
121 Sb	115	1	0.04	0.04	ppb	63.42	2500	
137 Ba	115	1	57.66	57.66	ppb	0.79	10000	
205 Tl	209	1	-0.15	-0.15	ppb	7.33	12500	
207 Pb	209	1	22.39	22.39	ppb	0.43	12500	
232 Th	209	1	4.60	4.60	ppb	0.63	550	
238 U	209	1	1.18	1.18	ppb	0.35	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	826062	1.98	775171	106.6	60 - 120	
89 Y	1	2756060	0.29	2551189	108.0	60 - 120	
115 In	1	2754515	0.34	2760750	99.8	60 - 120	
209 Bi	1	3590513	0.53	3514494	102.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\057SMPL.D\057SMPL.D#
Date Acquired: Dec 23 2009 02:58 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-8-b
Misc Info:
Vial Number: 3110
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	8.01	8.01	ppb	4.75	550	
9 Be	45	1	0.32	0.32	ppb	7.38	10000	
11 B	45	1	-1.89	-1.89	ppb	26.82	550	
23 Na	45	1	51.04	51.04	ppb	5.86	300000	
24 Mg	45	1	1,481.00	1481.00	ppb	1.25	125000	
27 Al	45	1	5,706.00	5706.00	ppb	1.33	62500	
29 Si	45	1	987.40	987.40	ppb	2.63	12500	
34 S	45	1	320.90	320.90	ppb	48.12	21000	
39 K	45	1	610.90	610.90	ppb	2.35	125000	
44 Ca	45	1	928.70	928.70	ppb	2.70	125000	
47 Ti	45	1	211.90	211.90	ppb	0.91	12500	
51 V	45	1	17.12	17.12	ppb	1.68	12500	
53 Cr	45	1	7.12	7.12	ppb	2.60	12500	
55 Mn	45	1	146.50	146.50	ppb	1.34	12500	
57 Fe	45	1	6,451.00	6451.00	ppb	0.44	65000	
59 Co	89	1	2.39	2.39	ppb	0.62	12500	
60 Ni	89	1	7.15	7.15	ppb	0.55	2500	
63 Cu	89	1	5.75	5.75	ppb	0.71	2500	
66 Zn	89	1	20.11	20.11	ppb	1.40	2500	
75 As	89	1	1.23	1.23	ppb	5.32	12500	
78 Se	89	1	0.57	0.57	ppb	24.28	10000	
90 Zr	89	1	3.47	3.47	ppb	13.40	550	
95 Mo	89	1	0.12	0.12	ppb	17.70	12500	
107 Ag	115	1	0.08	0.08	ppb	15.76	1000	
111 Cd	115	1	0.04	0.04	ppb	27.02	10000	
118 Sn	115	1	0.47	0.47	ppb	3.98	2500	
121 Sb	115	1	-0.08	-0.08	ppb	19.34	2500	
137 Ba	115	1	31.18	31.18	ppb	0.94	10000	
205 Tl	209	1	-0.20	-0.20	ppb	1.56	12500	
207 Pb	209	1	7.87	7.87	ppb	2.25	12500	
232 Th	209	1	2.14	2.14	ppb	1.86	550	
238 U	209	1	0.46	0.46	ppb	3.32	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	793834	1.11	775171	102.4	60 - 120	
89 Y	1	2711992	0.24	2551189	106.3	60 - 120	
115 In	1	2837460	1.01	2760750	102.8	60 - 120	
209 Bi	1	3749597	0.60	3514494	106.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\058SMPL.D\058SMPL.D#
Date Acquired: Dec 23 2009 03:02 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3111
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	81.52	81.52	ppb	1.12	550	
9 Be	45	1	118.80	118.80	ppb	1.77	10000	
11 B	45	1	189.30	189.30	ppb	1.08	550	
23 Na	45	1	2,080.00	2080.00	ppb	0.70	300000	
24 Mg	45	1	2,611.00	2611.00	ppb	0.61	125000	
27 Al	45	1	3,726.00	3726.00	ppb	0.55	62500	
29 Si	45	1	161.00	161.00	ppb	2.78	12500	
34 S	45	1	10,910.00	10910.00	ppb	1.77	21000	
39 K	45	1	4,201.00	4201.00	ppb	0.82	125000	
44 Ca	45	1	2,541.00	2541.00	ppb	0.73	125000	
47 Ti	45	1	196.90	196.90	ppb	1.13	12500	
51 V	45	1	61.28	61.28	ppb	0.66	12500	
53 Cr	45	1	57.94	57.94	ppb	1.31	12500	
55 Mn	45	1	41.43	41.43	ppb	1.35	12500	
57 Fe	45	1	988.60	988.60	ppb	1.34	65000	
59 Co	89	1	62.77	62.77	ppb	0.66	12500	
60 Ni	89	1	59.66	59.66	ppb	1.16	2500	
63 Cu	89	1	61.15	61.15	ppb	0.79	2500	
66 Zn	89	1	60.55	60.55	ppb	0.84	2500	
75 As	89	1	201.30	201.30	ppb	0.60	12500	
78 Se	89	1	97.95	97.95	ppb	0.48	10000	
90 Zr	89	1	161.90	161.90	ppb	1.54	550	
95 Mo	89	1	193.70	193.70	ppb	1.37	12500	
107 Ag	115	1	62.48	62.48	ppb	0.41	1000	
111 Cd	115	1	59.20	59.20	ppb	0.54	10000	
118 Sn	115	1	191.70	191.70	ppb	0.41	2500	
121 Sb	115	1	203.10	203.10	ppb	0.58	2500	
137 Ba	115	1	57.95	57.95	ppb	0.99	10000	
205 Tl	209	1	192.10	192.10	ppb	2.41	12500	
207 Pb	209	1	203.90	203.90	ppb	1.03	12500	
232 Th	209	1	72.60	72.60	ppb	0.67	550	
238 U	209	1	74.92	74.92	ppb	1.98	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	752570	1.18	775171	97.1	60 - 120	
89 Y	1	2538989	0.19	2551189	99.5	60 - 120	
115 In	1	2747892	0.43	2760750	99.5	60 - 120	
209 Bi	1	3555968	1.87	3514494	101.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\059SMPL.D\059SMPL.D#
Date Acquired: Dec 23 2009 03:09 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3112
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	-0.01	-0.01	ppb	291.66	550	
9 Be	45	1	-0.01	-0.01	ppb	2.60	10000	
11 B	45	1	-3.08	-3.08	ppb	17.03	550	
23 Na	45	1	1.81	1.81	ppb	51.62	300000	
24 Mg	45	1	2.25	2.25	ppb	25.63	125000	
27 Al	45	1	3.23	3.23	ppb	36.07	62500	
29 Si	45	1	-1.27	-1.27	ppb	515.54	12500	
34 S	45	1	373.70	373.70	ppb	9.37	21000	
39 K	45	1	7.36	7.36	ppb	20.00	125000	
44 Ca	45	1	2.64	2.64	ppb	71.53	125000	
47 Ti	45	1	0.20	0.20	ppb	21.02	12500	
51 V	45	1	0.02	0.02	ppb	32.96	12500	
53 Cr	45	1	0.03	0.03	ppb	27.34	12500	
55 Mn	45	1	0.15	0.15	ppb	32.78	12500	
57 Fe	45	1	4.63	4.63	ppb	31.77	65000	
59 Co	89	1	0.02	0.02	ppb	9.89	12500	
60 Ni	89	1	-0.03	-0.03	ppb	28.43	2500	
63 Cu	89	1	-0.16	-0.16	ppb	4.68	2500	
66 Zn	89	1	-0.45	-0.45	ppb	1.59	2500	
75 As	89	1	0.05	0.05	ppb	18.08	12500	
78 Se	89	1	0.05	0.05	ppb	202.44	10000	
90 Zr	89	1	-0.05	-0.05	ppb	22.92	550	
95 Mo	89	1	0.33	0.33	ppb	22.28	12500	
107 Ag	115	1	0.01	0.01	ppb	7.74	1000	
111 Cd	115	1	0.01	0.01	ppb	187.55	10000	
118 Sn	115	1	0.94	0.94	ppb	14.58	2500	
121 Sb	115	1	0.36	0.36	ppb	5.30	2500	
137 Ba	115	1	0.01	0.01	ppb	53.31	10000	
205 Tl	209	1	-0.17	-0.17	ppb	2.30	12500	
207 Pb	209	1	0.06	0.06	ppb	9.10	12500	
232 Th	209	1	0.51	0.51	ppb	7.14	550	
238 U	209	1	0.01	0.01	ppb	79.76	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	729732	1.09	775171	94.1	60 - 120	
89 Y	1	2512082	1.59	2551189	98.5	60 - 120	
115 In	1	2755864	1.74	2760750	99.8	60 - 120	
209 Bi	1	3604427	1.31	3514494	102.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\060SMPL.D\060SMPL.D#
Date Acquired: Dec 23 2009 03:12 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-9-b
Misc Info:
Vial Number: 3201
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	23.02	23.02	ppb	1.71	550	
9 Be	45	1	0.49	0.49	ppb	9.50	10000	
11 B	45	1	-0.35	-0.35	ppb	204.69	550	
23 Na	45	1	69.68	69.68	ppb	4.08	300000	
24 Mg	45	1	3,296.00	3296.00	ppb	1.66	125000	
27 Al	45	1	11,370.00	11370.00	ppb	1.82	62500	
29 Si	45	1	862.20	862.20	ppb	2.61	12500	
34 S	45	1	310.40	310.40	ppb	30.81	21000	
39 K	45	1	875.00	875.00	ppb	3.56	125000	
44 Ca	45	1	960.50	960.50	ppb	2.30	125000	
47 Ti	45	1	475.10	475.10	ppb	2.25	12500	
51 V	45	1	36.52	36.52	ppb	1.72	12500	
53 Cr	45	1	30.62	30.62	ppb	2.92	12500	
55 Mn	45	1	415.00	415.00	ppb	2.50	12500	
57 Fe	45	1	16,430.00	16430.00	ppb	1.77	65000	
59 Co	89	1	6.99	6.99	ppb	0.34	12500	
60 Ni	89	1	43.82	43.82	ppb	1.41	2500	
63 Cu	89	1	1,774.00	1774.00	ppb	0.91	2500	
66 Zn	89	1	578.50	578.50	ppb	0.52	2500	
75 As	89	1	3.10	3.10	ppb	4.65	12500	
78 Se	89	1	1.32	1.32	ppb	9.61	10000	
90 Zr	89	1	9.53	9.53	ppb	0.53	550	
95 Mo	89	1	2.96	2.96	ppb	2.05	12500	
107 Ag	115	1	1.81	1.81	ppb	1.37	1000	
111 Cd	115	1	3.60	3.60	ppb	1.93	10000	
118 Sn	115	1	247.20	247.20	ppb	0.68	2500	
121 Sb	115	1	1.94	1.94	ppb	3.50	2500	
137 Ba	115	1	157.10	157.10	ppb	0.99	10000	
205 Tl	209	1	-0.15	-0.15	ppb	9.99	12500	
207 Pb	209	1	166.90	166.90	ppb	1.88	12500	
232 Th	209	1	4.05	4.05	ppb	4.06	550	
238 U	209	1	1.93	1.93	ppb	0.39	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	769014	2.37	775171	99.2	60 - 120	
89 Y	1	2637994	0.56	2551189	103.4	60 - 120	
115 In	1	2794337	0.74	2760750	101.2	60 - 120	
209 Bi	1	3828340	0.38	3514494	108.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\061SMPL.D\061SMPL.D#
Date Acquired: Dec 23 2009 03:16 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-10-b
Misc Info:
Vial Number: 3202
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	23.86	23.86	ppb	2.44	550	
9 Be	45	1	0.65	0.65	ppb	14.36	10000	
11 B	45	1	1.85	1.85	ppb	28.46	550	
23 Na	45	1	76.64	76.64	ppb	1.42	300000	
24 Mg	45	1	5,186.00	5186.00	ppb	0.56	125000	
27 Al	45	1	16,910.00	16910.00	ppb	0.19	62500	
29 Si	45	1	1,240.00	1240.00	ppb	2.47	12500	
34 S	45	1	275.20	275.20	ppb	48.66	21000	
39 K	45	1	978.80	978.80	ppb	1.93	125000	
44 Ca	45	1	2,957.00	2957.00	ppb	1.08	125000	
47 Ti	45	1	346.50	346.50	ppb	0.91	12500	
51 V	45	1	32.12	32.12	ppb	0.67	12500	
53 Cr	45	1	22.32	22.32	ppb	1.54	12500	
55 Mn	45	1	836.20	836.20	ppb	0.30	12500	
57 Fe	45	1	16,510.00	16510.00	ppb	0.70	65000	
59 Co	89	1	8.82	8.82	ppb	0.14	12500	
60 Ni	89	1	36.97	36.97	ppb	0.40	2500	
63 Cu	89	1	28.67	28.67	ppb	0.54	2500	
66 Zn	89	1	64.54	64.54	ppb	0.97	2500	
75 As	89	1	3.22	3.22	ppb	5.92	12500	
78 Se	89	1	1.61	1.61	ppb	8.20	10000	
90 Zr	89	1	2.52	2.52	ppb	4.68	550	
95 Mo	89	1	0.59	0.59	ppb	7.41	12500	
107 Ag	115	1	0.18	0.18	ppb	0.65	1000	
111 Cd	115	1	0.30	0.30	ppb	2.47	10000	
118 Sn	115	1	5.05	5.05	ppb	7.73	2500	
121 Sb	115	1	0.08	0.08	ppb	5.79	2500	
137 Ba	115	1	106.90	106.90	ppb	0.53	10000	
205 Tl	209	1	-0.12	-0.12	ppb	8.45	12500	
207 Pb	209	1	21.56	21.56	ppb	0.98	12500	
232 Th	209	1	5.41	5.41	ppb	0.15	550	
238 U	209	1	0.68	0.68	ppb	2.10	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	767990	1.37	775171	99.1	60 - 120	
89 Y	1	2701934	0.42	2551189	105.9	60 - 120	
115 In	1	2722624	0.74	2760750	98.6	60 - 120	
209 Bi	1	3590532	1.42	3514494	102.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\062SMPL.D\062SMPL.D#
Date Acquired: Dec 23 2009 03:19 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-11-b
Misc Info:
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	29.81	29.81	ppb	2.79	550	
9 Be	45	1	0.77	0.77	ppb	16.93	10000	
11 B	45	1	3.03	3.03	ppb	15.66	550	
23 Na	45	1	103.00	103.00	ppb	2.52	300000	
24 Mg	45	1	7,011.00	7011.00	ppb	0.78	125000	
27 Al	45	1	17,390.00	17390.00	ppb	1.38	62500	
29 Si	45	1	1,105.00	1105.00	ppb	3.55	12500	
34 S	45	1	279.80	279.80	ppb	12.00	21000	
39 K	45	1	1,354.00	1354.00	ppb	1.11	125000	
44 Ca	45	1	5,478.00	5478.00	ppb	1.44	125000	
47 Ti	45	1	392.30	392.30	ppb	1.13	12500	
51 V	45	1	40.41	40.41	ppb	1.34	12500	
53 Cr	45	1	32.43	32.43	ppb	0.73	12500	
55 Mn	45	1	1,028.00	1028.00	ppb	0.56	12500	
57 Fe	45	1	30,760.00	30760.00	ppb	0.81	65000	
59 Co	89	1	13.20	13.20	ppb	0.47	12500	
60 Ni	89	1	39.34	39.34	ppb	1.06	2500	
63 Cu	89	1	39.70	39.70	ppb	0.10	2500	
66 Zn	89	1	70.87	70.87	ppb	0.13	2500	
75 As	89	1	4.28	4.28	ppb	1.36	12500	
78 Se	89	1	1.53	1.53	ppb	8.46	10000	
90 Zr	89	1	2.37	2.37	ppb	0.70	550	
95 Mo	89	1	0.62	0.62	ppb	5.66	12500	
107 Ag	115	1	0.10	0.10	ppb	19.02	1000	
111 Cd	115	1	0.32	0.32	ppb	3.45	10000	
118 Sn	115	1	2.23	2.23	ppb	5.94	2500	
121 Sb	115	1	0.05	0.05	ppb	19.55	2500	
137 Ba	115	1	99.75	99.75	ppb	0.32	10000	
205 Tl	209	1	-0.11	-0.11	ppb	14.62	12500	
207 Pb	209	1	23.81	23.81	ppb	0.80	12500	
232 Th	209	1	5.04	5.04	ppb	0.47	550	
238 U	209	1	0.82	0.82	ppb	1.33	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	789137	1.11	775171	101.8	60 - 120	
89 Y	1	2686623	0.44	2551189	105.3	60 - 120	
115 In	1	2729207	0.39	2760750	98.9	60 - 120	
209 Bi	1	3559187	0.68	3514494	101.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\063SMPL.D\063SMPL.D#
Date Acquired: Dec 23 2009 03:23 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-12-b
Misc Info:
Vial Number: 3204
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	9.12	9.12	ppb	1.19	550	
9 Be	45	1	0.38	0.38	ppb	30.68	10000	
11 B	45	1	-2.21	-2.21	ppb	36.82	550	
23 Na	45	1	34.86	34.86	ppb	5.90	300000	
24 Mg	45	1	1,916.00	1916.00	ppb	2.10	125000	
27 Al	45	1	10,760.00	10760.00	ppb	1.92	62500	
29 Si	45	1	922.50	922.50	ppb	2.89	12500	
34 S	45	1	200.60	200.60	ppb	35.46	21000	
39 K	45	1	622.10	622.10	ppb	2.47	125000	
44 Ca	45	1	258.20	258.20	ppb	3.10	125000	
47 Ti	45	1	496.30	496.30	ppb	2.49	12500	
51 V	45	1	16.78	16.78	ppb	2.23	12500	
53 Cr	45	1	9.67	9.67	ppb	3.03	12500	
55 Mn	45	1	168.90	168.90	ppb	3.10	12500	
57 Fe	45	1	10,240.00	10240.00	ppb	2.13	65000	
59 Co	89	1	3.65	3.65	ppb	0.37	12500	
60 Ni	89	1	7.59	7.59	ppb	0.92	2500	
63 Cu	89	1	6.89	6.89	ppb	0.77	2500	
66 Zn	89	1	23.62	23.62	ppb	0.47	2500	
75 As	89	1	1.87	1.87	ppb	4.19	12500	
78 Se	89	1	1.09	1.09	ppb	17.78	10000	
90 Zr	89	1	1.12	1.12	ppb	0.75	550	
95 Mo	89	1	0.20	0.20	ppb	4.73	12500	
107 Ag	115	1	0.02	0.02	ppb	47.64	1000	
111 Cd	115	1	0.05	0.05	ppb	29.43	10000	
118 Sn	115	1	0.79	0.79	ppb	6.03	2500	
121 Sb	115	1	-0.05	-0.05	ppb	9.86	2500	
137 Ba	115	1	23.92	23.92	ppb	1.65	10000	
205 Tl	209	1	-0.17	-0.17	ppb	7.80	12500	
207 Pb	209	1	7.25	7.25	ppb	1.91	12500	
232 Th	209	1	3.41	3.41	ppb	0.55	550	
238 U	209	1	0.61	0.61	ppb	2.01	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	770717	2.11	775171	99.4	60 - 120	
89 Y	1	2632572	0.60	2551189	103.2	60 - 120	
115 In	1	2763305	0.72	2760750	100.1	60 - 120	
209 Bi	1	3636009	0.64	3514494	103.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\064SMPL.D\064SMPL.D#
Date Acquired: Dec 23 2009 03:26 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-13-b
Misc Info:
Vial Number: 3205
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	15.16	15.16	ppb	5.90	550	
9 Be	45	1	0.41	0.41	ppb	21.45	10000	
11 B	45	1	1.46	1.46	ppb	70.34	550	
23 Na	45	1	70.49	70.49	ppb	2.87	300000	
24 Mg	45	1	3,272.00	3272.00	ppb	2.36	125000	
27 Al	45	1	8,400.00	8400.00	ppb	2.32	62500	
29 Si	45	1	889.60	889.60	ppb	3.75	12500	
34 S	45	1	320.40	320.40	ppb	41.17	21000	
39 K	45	1	843.30	843.30	ppb	2.25	125000	
44 Ca	45	1	1,069.00	1069.00	ppb	2.45	125000	
47 Ti	45	1	320.60	320.60	ppb	2.12	12500	
51 V	45	1	22.09	22.09	ppb	1.80	12500	
53 Cr	45	1	11.84	11.84	ppb	3.09	12500	
55 Mn	45	1	323.10	323.10	ppb	1.65	12500	
57 Fe	45	1	11,010.00	11010.00	ppb	1.28	65000	
59 Co	89	1	5.46	5.46	ppb	0.77	12500	
60 Ni	89	1	11.63	11.63	ppb	1.44	2500	
63 Cu	89	1	18.55	18.55	ppb	1.35	2500	
66 Zn	89	1	35.61	35.61	ppb	1.26	2500	
75 As	89	1	2.26	2.26	ppb	4.45	12500	
78 Se	89	1	0.79	0.79	ppb	27.05	10000	
90 Zr	89	1	1.23	1.23	ppb	1.90	550	
95 Mo	89	1	0.25	0.25	ppb	5.47	12500	
107 Ag	115	1	0.04	0.04	ppb	13.37	1000	
111 Cd	115	1	0.12	0.12	ppb	6.80	10000	
118 Sn	115	1	1.36	1.36	ppb	2.38	2500	
121 Sb	115	1	-0.04	-0.04	ppb	55.08	2500	
137 Ba	115	1	47.71	47.71	ppb	0.84	10000	
205 Tl	209	1	-0.19	-0.19	ppb	2.04	12500	
207 Pb	209	1	27.34	27.34	ppb	0.88	12500	
232 Th	209	1	2.64	2.64	ppb	1.27	550	
238 U	209	1	0.53	0.53	ppb	1.42	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	757758	2.33	775171	97.8	60 - 120	
89 Y	1	2610379	0.96	2551189	102.3	60 - 120	
115 In	1	2740410	0.10	2760750	99.3	60 - 120	
209 Bi	1	3637105	1.47	3514494	103.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\065SMPL.D\065SMPL.D#
Date Acquired: Dec 23 2009 03:30 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-14-b
Misc Info:
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	11.43	11.43	ppb	1.94	550	
9 Be	45	1	0.60	0.60	ppb	10.31	10000	
11 B	45	1	-3.21	-3.21	ppb	57.63	550	
23 Na	45	1	37.54	37.54	ppb	1.71	300000	
24 Mg	45	1	2,135.00	2135.00	ppb	0.94	125000	
27 Al	45	1	14,340.00	14340.00	ppb	0.68	62500	
29 Si	45	1	862.80	862.80	ppb	3.41	12500	
34 S	45	1	198.60	198.60	ppb	35.20	21000	
39 K	45	1	585.90	585.90	ppb	11.94	125000	
44 Ca	45	1	595.40	595.40	ppb	1.91	125000	
47 Ti	45	1	468.60	468.60	ppb	0.58	12500	
51 V	45	1	20.66	20.66	ppb	0.68	12500	
53 Cr	45	1	11.73	11.73	ppb	0.86	12500	
55 Mn	45	1	373.20	373.20	ppb	0.61	12500	
57 Fe	45	1	12,950.00	12950.00	ppb	1.14	65000	
59 Co	89	1	3.59	3.59	ppb	0.43	12500	
60 Ni	89	1	9.08	9.08	ppb	1.25	2500	
63 Cu	89	1	6.25	6.25	ppb	1.22	2500	
66 Zn	89	1	29.76	29.76	ppb	0.57	2500	
75 As	89	1	1.93	1.93	ppb	2.84	12500	
78 Se	89	1	1.29	1.29	ppb	17.70	10000	
90 Zr	89	1	0.96	0.96	ppb	2.18	550	
95 Mo	89	1	0.28	0.28	ppb	3.91	12500	
107 Ag	115	1	0.05	0.05	ppb	1.29	1000	
111 Cd	115	1	0.07	0.07	ppb	17.65	10000	
118 Sn	115	1	0.55	0.55	ppb	3.85	2500	
121 Sb	115	1	-0.05	-0.05	ppb	1.72	2500	
137 Ba	115	1	46.48	46.48	ppb	0.66	10000	
205 Tl	209	1	-0.17	-0.17	ppb	1.82	12500	
207 Pb	209	1	6.62	6.62	ppb	0.75	12500	
232 Th	209	1	3.13	3.13	ppb	1.31	550	
238 U	209	1	0.58	0.58	ppb	1.67	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	765033	1.28	775171	98.7	60 - 120	
89 Y	1	2676446	0.89	2551189	104.9	60 - 120	
115 In	1	2727031	0.16	2760750	98.8	60 - 120	
209 Bi	1	3612507	0.36	3514494	102.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\066SMPL.D\066SMPL.D#
Date Acquired: Dec 23 2009 03:33 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-15-b
Misc Info:
Vial Number: 3207
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	44.51	44.51	ppb	1.40	550	
9 Be	45	1	0.86	0.86	ppb	20.62	10000	
11 B	45	1	5.13	5.13	ppb	35.91	550	
23 Na	45	1	111.90	111.90	ppb	2.52	300000	
24 Mg	45	1	10,230.00	10230.00	ppb	1.21	125000	
27 Al	45	1	18,390.00	18390.00	ppb	1.52	62500	
29 Si	45	1	630.20	630.20	ppb	0.54	12500	
34 S	45	1	105.60	105.60	ppb	32.11	21000	
39 K	45	1	1,891.00	1891.00	ppb	1.31	125000	
44 Ca	45	1	646.10	646.10	ppb	1.42	125000	
47 Ti	45	1	345.30	345.30	ppb	1.23	12500	
51 V	45	1	43.22	43.22	ppb	1.06	12500	
53 Cr	45	1	28.98	28.98	ppb	1.29	12500	
55 Mn	45	1	704.50	704.50	ppb	1.59	12500	
57 Fe	45	1	25,930.00	25930.00	ppb	0.96	65000	
59 Co	89	1	14.12	14.12	ppb	0.32	12500	
60 Ni	89	1	28.99	28.99	ppb	0.44	2500	
63 Cu	89	1	37.46	37.46	ppb	0.46	2500	
66 Zn	89	1	66.10	66.10	ppb	0.46	2500	
75 As	89	1	3.38	3.38	ppb	2.73	12500	
78 Se	89	1	2.03	2.03	ppb	14.74	10000	
90 Zr	89	1	3.06	3.06	ppb	0.81	550	
95 Mo	89	1	0.31	0.31	ppb	5.35	12500	
107 Ag	115	1	0.01	0.01	ppb	75.77	1000	
111 Cd	115	1	0.13	0.13	ppb	9.66	10000	
118 Sn	115	1	0.77	0.77	ppb	7.85	2500	
121 Sb	115	1	-0.04	-0.04	ppb	18.15	2500	
137 Ba	115	1	79.47	79.47	ppb	1.06	10000	
205 Tl	209	1	-0.14	-0.14	ppb	1.65	12500	
207 Pb	209	1	12.67	12.67	ppb	2.02	12500	
232 Th	209	1	6.63	6.63	ppb	1.47	550	
238 U	209	1	0.98	0.98	ppb	0.52	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	781670	1.45	775171	100.8	60 - 120	
89 Y	1	2712757	0.04	2551189	106.3	60 - 120	
115 In	1	2679693	0.96	2760750	97.1	60 - 120	
209 Bi	1	3524242	1.03	3514494	100.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\067SMPL.D\067SMPL.D#
Date Acquired: Dec 23 2009 03:37 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-16-b
Misc Info:
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	29.36	29.36	ppb	2.94	550	
9 Be	45	1	0.55	0.55	ppb	22.88	10000	
11 B	45	1	2.00	2.00	ppb	13.19	550	
23 Na	45	1	75.25	75.25	ppb	1.22	300000	
24 Mg	45	1	7,100.00	7100.00	ppb	1.03	125000	
27 Al	45	1	15,330.00	15330.00	ppb	0.47	62500	
29 Si	45	1	751.80	751.80	ppb	2.11	12500	
34 S	45	1	184.70	184.70	ppb	43.14	21000	
39 K	45	1	1,047.00	1047.00	ppb	0.62	125000	
44 Ca	45	1	167.10	167.10	ppb	1.97	125000	
47 Ti	45	1	253.30	253.30	ppb	1.40	12500	
51 V	45	1	28.70	28.70	ppb	0.56	12500	
53 Cr	45	1	18.34	18.34	ppb	1.19	12500	
55 Mn	45	1	382.20	382.20	ppb	0.29	12500	
57 Fe	45	1	16,980.00	16980.00	ppb	0.69	65000	
59 Co	89	1	11.04	11.04	ppb	0.26	12500	
60 Ni	89	1	21.69	21.69	ppb	1.33	2500	
63 Cu	89	1	23.85	23.85	ppb	0.97	2500	
66 Zn	89	1	48.75	48.75	ppb	0.61	2500	
75 As	89	1	2.15	2.15	ppb	2.95	12500	
78 Se	89	1	1.00	1.00	ppb	35.30	10000	
90 Zr	89	1	3.26	3.26	ppb	0.62	550	
95 Mo	89	1	0.35	0.35	ppb	5.07	12500	
107 Ag	115	1	0.01	0.01	ppb	17.14	1000	
111 Cd	115	1	0.15	0.15	ppb	7.54	10000	
118 Sn	115	1	0.46	0.46	ppb	9.18	2500	
121 Sb	115	1	-0.06	-0.06	ppb	30.05	2500	
137 Ba	115	1	52.45	52.45	ppb	1.15	10000	
205 Tl	209	1	-0.17	-0.17	ppb	1.97	12500	
207 Pb	209	1	7.79	7.79	ppb	0.67	12500	
232 Th	209	1	3.91	3.91	ppb	1.34	550	
238 U	209	1	0.66	0.66	ppb	1.15	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	754012	0.23	775171	97.3	60 - 120	
89 Y	1	2576851	0.33	2551189	101.0	60 - 120	
115 In	1	2656722	0.87	2760750	96.2	60 - 120	
209 Bi	1	3549294	0.48	3514494	101.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\068SMPL.D\068SMPL.D#
Date Acquired: Dec 23 2009 03:40 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-17-b
Misc Info:
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	24.33	24.33	ppb	2.71	550	
9 Be	45	1	0.58	0.58	ppb	26.18	10000	
11 B	45	1	2.40	2.40	ppb	49.67	550	
23 Na	45	1	136.00	136.00	ppb	1.00	300000	
24 Mg	45	1	5,837.00	5837.00	ppb	0.44	125000	
27 Al	45	1	12,530.00	12530.00	ppb	0.80	62500	
29 Si	45	1	1,088.00	1088.00	ppb	0.71	12500	
34 S	45	1	280.50	280.50	ppb	15.72	21000	
39 K	45	1	1,270.00	1270.00	ppb	2.07	125000	
44 Ca	45	1	2,545.00	2545.00	ppb	1.26	125000	
47 Ti	45	1	388.00	388.00	ppb	1.06	12500	
51 V	45	1	32.62	32.62	ppb	0.87	12500	
53 Cr	45	1	16.13	16.13	ppb	1.67	12500	
55 Mn	45	1	534.80	534.80	ppb	1.10	12500	
57 Fe	45	1	17,580.00	17580.00	ppb	1.00	65000	
59 Co	89	1	9.85	9.85	ppb	0.27	12500	
60 Ni	89	1	19.18	19.18	ppb	0.45	2500	
63 Cu	89	1	41.22	41.22	ppb	0.19	2500	
66 Zn	89	1	52.62	52.62	ppb	1.04	2500	
75 As	89	1	2.79	2.79	ppb	2.14	12500	
78 Se	89	1	1.10	1.10	ppb	19.46	10000	
90 Zr	89	1	5.97	5.97	ppb	5.97	550	
95 Mo	89	1	0.48	0.48	ppb	1.83	12500	
107 Ag	115	1	0.14	0.14	ppb	0.96	1000	
111 Cd	115	1	0.17	0.17	ppb	4.67	10000	
118 Sn	115	1	0.51	0.51	ppb	11.90	2500	
121 Sb	115	1	-0.08	-0.08	ppb	7.23	2500	
137 Ba	115	1	100.80	100.80	ppb	0.68	10000	
205 Tl	209	1	-0.18	-0.18	ppb	1.58	12500	
207 Pb	209	1	12.02	12.02	ppb	0.97	12500	
232 Th	209	1	4.23	4.23	ppb	0.43	550	
238 U	209	1	1.20	1.20	ppb	1.25	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	745812	1.64	775171	96.2	60 - 120	
89 Y	1	2582231	1.05	2551189	101.2	60 - 120	
115 In	1	2655587	0.98	2760750	96.2	60 - 120	
209 Bi	1	3518265	1.91	3514494	100.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\069SMPL.D\069SMPL.D#
Date Acquired: Dec 23 2009 03:44 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-18-b
Misc Info:
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	19.50	19.50	ppb	2.31	550	
9 Be	45	1	0.59	0.59	ppb	7.62	10000	
11 B	45	1	-0.19	-0.19	ppb	749.22	550	
23 Na	45	1	91.68	91.68	ppb	0.41	300000	
24 Mg	45	1	3,780.00	3780.00	ppb	0.90	125000	
27 Al	45	1	13,110.00	13110.00	ppb	1.30	62500	
29 Si	45	1	1,106.00	1106.00	ppb	1.37	12500	
34 S	45	1	229.50	229.50	ppb	38.45	21000	
39 K	45	1	1,093.00	1093.00	ppb	1.81	125000	
44 Ca	45	1	1,153.00	1153.00	ppb	1.16	125000	
47 Ti	45	1	469.40	469.40	ppb	0.81	12500	
51 V	45	1	26.59	26.59	ppb	1.18	12500	
53 Cr	45	1	14.20	14.20	ppb	1.57	12500	
55 Mn	45	1	363.90	363.90	ppb	1.55	12500	
57 Fe	45	1	14,650.00	14650.00	ppb	0.67	65000	
59 Co	89	1	7.29	7.29	ppb	0.54	12500	
60 Ni	89	1	14.05	14.05	ppb	1.82	2500	
63 Cu	89	1	25.13	25.13	ppb	0.97	2500	
66 Zn	89	1	38.56	38.56	ppb	1.09	2500	
75 As	89	1	2.78	2.78	ppb	1.96	12500	
78 Se	89	1	1.46	1.46	ppb	23.50	10000	
90 Zr	89	1	4.48	4.48	ppb	1.12	550	
95 Mo	89	1	0.29	0.29	ppb	4.85	12500	
107 Ag	115	1	0.05	0.05	ppb	4.91	1000	
111 Cd	115	1	0.09	0.09	ppb	10.95	10000	
118 Sn	115	1	0.45	0.45	ppb	12.62	2500	
121 Sb	115	1	-0.09	-0.09	ppb	14.00	2500	
137 Ba	115	1	55.44	55.44	ppb	0.58	10000	
205 Tl	209	1	-0.16	-0.16	ppb	1.33	12500	
207 Pb	209	1	8.47	8.47	ppb	1.51	12500	
232 Th	209	1	4.34	4.34	ppb	1.34	550	
238 U	209	1	0.79	0.79	ppb	1.12	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	750832	1.11	775171	96.9	60 - 120	
89 Y	1	2604201	0.27	2551189	102.1	60 - 120	
115 In	1	2684435	0.11	2760750	97.2	60 - 120	
209 Bi	1	3579966	0.46	3514494	101.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\070SMPL.D\070SMPL.D#
Date Acquired: Dec 23 2009 03:47 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	82.80	82.80	ppb	1.21	550	
9 Be	45	1	120.70	120.70	ppb	1.33	10000	
11 B	45	1	186.90	186.90	ppb	1.08	550	
23 Na	45	1	2,079.00	2079.00	ppb	0.77	300000	
24 Mg	45	1	2,594.00	2594.00	ppb	1.26	125000	
27 Al	45	1	3,683.00	3683.00	ppb	1.86	62500	
29 Si	45	1	152.00	152.00	ppb	4.98	12500	
34 S	45	1	10,770.00	10770.00	ppb	2.79	21000	
39 K	45	1	4,167.00	4167.00	ppb	1.27	125000	
44 Ca	45	1	2,528.00	2528.00	ppb	1.06	125000	
47 Ti	45	1	194.90	194.90	ppb	1.45	12500	
51 V	45	1	61.29	61.29	ppb	0.84	12500	
53 Cr	45	1	57.36	57.36	ppb	0.68	12500	
55 Mn	45	1	41.30	41.30	ppb	1.19	12500	
57 Fe	45	1	987.20	987.20	ppb	1.76	65000	
59 Co	89	1	62.90	62.90	ppb	0.90	12500	
60 Ni	89	1	60.14	60.14	ppb	0.32	2500	
63 Cu	89	1	61.69	61.69	ppb	0.49	2500	
66 Zn	89	1	60.32	60.32	ppb	0.39	2500	
75 As	89	1	201.30	201.30	ppb	0.18	12500	
78 Se	89	1	99.34	99.34	ppb	1.95	10000	
90 Zr	89	1	160.50	160.50	ppb	1.81	550	
95 Mo	89	1	194.30	194.30	ppb	0.35	12500	
107 Ag	115	1	62.69	62.69	ppb	0.55	1000	
111 Cd	115	1	59.49	59.49	ppb	0.35	10000	
118 Sn	115	1	192.90	192.90	ppb	0.51	2500	
121 Sb	115	1	203.70	203.70	ppb	1.34	2500	
137 Ba	115	1	58.79	58.79	ppb	0.22	10000	
205 Tl	209	1	191.00	191.00	ppb	1.05	12500	
207 Pb	209	1	203.90	203.90	ppb	1.79	12500	
232 Th	209	1	72.52	72.52	ppb	1.23	550	
238 U	209	1	74.78	74.78	ppb	0.96	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	732954	1.13	775171	94.6	60 - 120	
89 Y	1	2461372	0.16	2551189	96.5	60 - 120	
115 In	1	2661076	0.59	2760750	96.4	60 - 120	
209 Bi	1	3498660	2.14	3514494	99.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\071SMPL.D\071SMPL.D#
Date Acquired: Dec 23 2009 03:54 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.02	0.02	ppb	285.67	550	
9 Be	45	1	0.05	0.05	ppb	65.47	10000	
11 B	45	1	-2.19	-2.19	ppb	48.45	550	
23 Na	45	1	1.20	1.20	ppb	90.62	300000	
24 Mg	45	1	4.80	4.80	ppb	71.24	125000	
27 Al	45	1	10.37	10.37	ppb	76.26	62500	
29 Si	45	1	-8.18	-8.18	ppb	97.08	12500	
34 S	45	1	249.80	249.80	ppb	47.72	21000	
39 K	45	1	9.75	9.75	ppb	21.67	125000	
44 Ca	45	1	4.37	4.37	ppb	88.90	125000	
47 Ti	45	1	0.47	0.47	ppb	73.30	12500	
51 V	45	1	0.04	0.04	ppb	52.84	12500	
53 Cr	45	1	0.05	0.05	ppb	60.97	12500	
55 Mn	45	1	0.35	0.35	ppb	65.73	12500	
57 Fe	45	1	12.32	12.32	ppb	55.94	65000	
59 Co	89	1	0.02	0.02	ppb	28.08	12500	
60 Ni	89	1	-0.01	-0.01	ppb	133.50	2500	
63 Cu	89	1	-0.09	-0.09	ppb	61.15	2500	
66 Zn	89	1	-0.41	-0.41	ppb	6.05	2500	
75 As	89	1	0.07	0.07	ppb	29.34	12500	
78 Se	89	1	-0.04	-0.04	ppb	235.78	10000	
90 Zr	89	1	-0.04	-0.04	ppb	40.98	550	
95 Mo	89	1	0.38	0.38	ppb	22.15	12500	
107 Ag	115	1	0.01	0.01	ppb	85.17	1000	
111 Cd	115	1	0.01	0.01	ppb	48.89	10000	
118 Sn	115	1	0.97	0.97	ppb	12.54	2500	
121 Sb	115	1	0.36	0.36	ppb	2.82	2500	
137 Ba	115	1	0.02	0.02	ppb	158.17	10000	
205 Tl	209	1	-0.19	-0.19	ppb	5.06	12500	
207 Pb	209	1	0.10	0.10	ppb	26.01	12500	
232 Th	209	1	0.40	0.40	ppb	4.51	550	
238 U	209	1	0.01	0.01	ppb	44.62	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	702755	0.17	775171	90.7	60 - 120	
89 Y	1	2435926	1.54	2551189	95.5	60 - 120	
115 In	1	2668824	1.19	2760750	96.7	60 - 120	
209 Bi	1	3537155	0.39	3514494	100.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\072SMPL.D\072SMPL.D#
Date Acquired: Dec 23 2009 03:58 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11061-a-19-b
Misc Info:
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	24.16	24.16	ppb	2.08	550	
9 Be	45	1	0.54	0.54	ppb	11.53	10000	
11 B	45	1	3.43	3.43	ppb	9.02	550	
23 Na	45	1	87.92	87.92	ppb	1.79	300000	
24 Mg	45	1	5,824.00	5824.00	ppb	0.64	125000	
27 Al	45	1	13,190.00	13190.00	ppb	0.92	62500	
29 Si	45	1	1,212.00	1212.00	ppb	3.16	12500	
34 S	45	1	129.00	129.00	ppb	87.21	21000	
39 K	45	1	1,301.00	1301.00	ppb	1.07	125000	
44 Ca	45	1	504.50	504.50	ppb	1.74	125000	
47 Ti	45	1	339.40	339.40	ppb	1.30	12500	
51 V	45	1	30.19	30.19	ppb	1.38	12500	
53 Cr	45	1	17.26	17.26	ppb	0.82	12500	
55 Mn	45	1	695.00	695.00	ppb	1.47	12500	
57 Fe	45	1	16,510.00	16510.00	ppb	1.58	65000	
59 Co	89	1	10.19	10.19	ppb	0.43	12500	
60 Ni	89	1	18.92	18.92	ppb	0.85	2500	
63 Cu	89	1	27.21	27.21	ppb	0.36	2500	
66 Zn	89	1	44.77	44.77	ppb	0.84	2500	
75 As	89	1	3.06	3.06	ppb	2.46	12500	
78 Se	89	1	1.12	1.12	ppb	18.34	10000	
90 Zr	89	1	3.51	3.51	ppb	1.41	550	
95 Mo	89	1	0.36	0.36	ppb	7.28	12500	
107 Ag	115	1	0.01	0.01	ppb	68.38	1000	
111 Cd	115	1	0.11	0.11	ppb	5.17	10000	
118 Sn	115	1	0.86	0.86	ppb	8.12	2500	
121 Sb	115	1	0.06	0.06	ppb	34.28	2500	
137 Ba	115	1	56.28	56.28	ppb	0.17	10000	
205 Tl	209	1	-0.15	-0.15	ppb	7.94	12500	
207 Pb	209	1	8.08	8.08	ppb	2.02	12500	
232 Th	209	1	4.44	4.44	ppb	3.95	550	
238 U	209	1	0.72	0.72	ppb	1.82	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	740359	1.57	775171	95.5	60 - 120	
89 Y	1	2559176	0.52	2551189	100.3	60 - 120	
115 In	1	2636076	0.48	2760750	95.5	60 - 120	
209 Bi	1	3497637	0.96	3514494	99.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\073SMPL.D\073SMPL.D#
Date Acquired: Dec 23 2009 04:01 pm
Acq. Method: STL5.M
Operator:
Sample Name: mb 220-34544/1-a
Misc Info:
Vial Number: 3302
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.02	0.02	ppb	245.21	550	
9 Be	45	1	0.02	0.02	ppb	155.87	10000	
11 B	45	1	-5.07	-5.07	ppb	11.35	550	
23 Na	45	1	1.59	1.59	ppb	82.29	300000	
24 Mg	45	1	4.83	4.83	ppb	65.14	125000	
27 Al	45	1	13.86	13.86	ppb	53.72	62500	
29 Si	45	1	16.87	16.87	ppb	50.38	12500	
34 S	45	1	251.80	251.80	ppb	15.50	21000	
39 K	45	1	8.97	8.97	ppb	23.31	125000	
44 Ca	45	1	5.48	5.48	ppb	74.78	125000	
47 Ti	45	1	0.49	0.49	ppb	43.44	12500	
51 V	45	1	0.10	0.10	ppb	13.72	12500	
53 Cr	45	1	0.20	0.20	ppb	27.78	12500	
55 Mn	45	1	0.30	0.30	ppb	75.50	12500	
57 Fe	45	1	16.69	16.69	ppb	46.77	65000	
59 Co	89	1	-0.04	-0.04	ppb	20.41	12500	
60 Ni	89	1	-0.02	-0.02	ppb	70.00	2500	
63 Cu	89	1	-0.06	-0.06	ppb	89.35	2500	
66 Zn	89	1	-0.10	-0.10	ppb	21.84	2500	
75 As	89	1	0.03	0.03	ppb	31.80	12500	
78 Se	89	1	0.03	0.03	ppb	424.29	10000	
90 Zr	89	1	0.81	0.81	ppb	4.57	550	
95 Mo	89	1	0.02	0.02	ppb	36.04	12500	
107 Ag	115	1	0.00	0.00	ppb	102.49	1000	
111 Cd	115	1	0.00	0.00	ppb	559.87	10000	
118 Sn	115	1	0.55	0.55	ppb	9.53	2500	
121 Sb	115	1	-0.05	-0.05	ppb	34.58	2500	
137 Ba	115	1	0.03	0.03	ppb	101.30	10000	
205 Tl	209	1	-0.26	-0.26	ppb	5.37	12500	
207 Pb	209	1	0.01	0.01	ppb	188.63	12500	
232 Th	209	1	0.11	0.11	ppb	18.63	550	
238 U	209	1	-0.01	-0.01	ppb	61.48	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	696422	1.34	775171	89.8	60 - 120	
89 Y	1	2377454	0.76	2551189	93.2	60 - 120	
115 In	1	2601529	0.88	2760750	94.2	60 - 120	
209 Bi	1	3493984	1.57	3514494	99.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\074SMPL.D\074SMPL.D#
Date Acquired: Dec 23 2009 04:05 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-21-b
Misc Info:
Vial Number: 3303
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.88	10.88	ppb	3.85	550	
9 Be	45	1	0.59	0.59	ppb	19.16	10000	
11 B	45	1	-2.17	-2.17	ppb	66.53	550	
23 Na	45	1	185.40	185.40	ppb	1.01	300000	
24 Mg	45	1	3,723.00	3723.00	ppb	1.12	125000	
27 Al	45	1	11,400.00	11400.00	ppb	1.33	62500	
29 Si	45	1	1,151.00	1151.00	ppb	2.89	12500	
34 S	45	1	256.10	256.10	ppb	13.80	21000	
39 K	45	1	1,258.00	1258.00	ppb	1.86	125000	
44 Ca	45	1	8,508.00	8508.00	ppb	0.48	125000	
47 Ti	45	1	342.40	342.40	ppb	0.14	12500	
51 V	45	1	23.38	23.38	ppb	0.16	12500	
53 Cr	45	1	17.95	17.95	ppb	1.31	12500	
55 Mn	45	1	370.00	370.00	ppb	0.79	12500	
57 Fe	45	1	14,420.00	14420.00	ppb	0.20	65000	
59 Co	89	1	7.59	7.59	ppb	0.97	12500	
60 Ni	89	1	24.33	24.33	ppb	0.57	2500	
63 Cu	89	1	17.89	17.89	ppb	0.80	2500	
66 Zn	89	1	33.82	33.82	ppb	1.03	2500	
75 As	89	1	3.16	3.16	ppb	3.16	12500	
78 Se	89	1	1.31	1.31	ppb	9.23	10000	
90 Zr	89	1	3.48	3.48	ppb	1.04	550	
95 Mo	89	1	0.30	0.30	ppb	1.49	12500	
107 Ag	115	1	0.02	0.02	ppb	8.79	1000	
111 Cd	115	1	0.07	0.07	ppb	9.55	10000	
118 Sn	115	1	1.08	1.08	ppb	2.17	2500	
121 Sb	115	1	0.02	0.02	ppb	41.32	2500	
137 Ba	115	1	54.29	54.29	ppb	0.44	10000	
205 Tl	209	1	-0.14	-0.14	ppb	8.82	12500	
207 Pb	209	1	15.92	15.92	ppb	1.54	12500	
232 Th	209	1	5.04	5.04	ppb	3.46	550	
238 U	209	1	0.72	0.72	ppb	1.70	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	738651	0.88	775171	95.3	60 - 120	
89 Y	1	2578341	0.18	2551189	101.1	60 - 120	
115 In	1	2663385	0.71	2760750	96.5	60 - 120	
209 Bi	1	3505299	1.24	3514494	99.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\075SMPL.D\075SMPL.D#
Date Acquired: Dec 23 2009 04:08 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-26-b
Misc Info:
Vial Number: 3304
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.25	13.25	ppb	2.16	550	
9 Be	45	1	0.72	0.72	ppb	20.34	10000	
11 B	45	1	-2.51	-2.51	ppb	47.09	550	
23 Na	45	1	158.90	158.90	ppb	2.29	300000	
24 Mg	45	1	4,278.00	4278.00	ppb	0.82	125000	
27 Al	45	1	13,450.00	13450.00	ppb	1.03	62500	
29 Si	45	1	705.50	705.50	ppb	1.16	12500	
34 S	45	1	251.30	251.30	ppb	23.17	21000	
39 K	45	1	1,528.00	1528.00	ppb	1.68	125000	
44 Ca	45	1	4,371.00	4371.00	ppb	0.88	125000	
47 Ti	45	1	455.30	455.30	ppb	1.79	12500	
51 V	45	1	31.88	31.88	ppb	0.84	12500	
53 Cr	45	1	23.65	23.65	ppb	1.19	12500	
55 Mn	45	1	369.50	369.50	ppb	1.44	12500	
57 Fe	45	1	17,090.00	17090.00	ppb	0.59	65000	
59 Co	89	1	10.59	10.59	ppb	0.74	12500	
60 Ni	89	1	47.11	47.11	ppb	1.01	2500	
63 Cu	89	1	19.18	19.18	ppb	0.62	2500	
66 Zn	89	1	48.66	48.66	ppb	0.45	2500	
75 As	89	1	3.45	3.45	ppb	2.18	12500	
78 Se	89	1	1.45	1.45	ppb	28.44	10000	
90 Zr	89	1	4.90	4.90	ppb	2.00	550	
95 Mo	89	1	0.47	0.47	ppb	1.94	12500	
107 Ag	115	1	0.01	0.01	ppb	79.82	1000	
111 Cd	115	1	0.05	0.05	ppb	31.98	10000	
118 Sn	115	1	0.63	0.63	ppb	9.51	2500	
121 Sb	115	1	-0.05	-0.05	ppb	35.49	2500	
137 Ba	115	1	46.54	46.54	ppb	1.25	10000	
205 Tl	209	1	-0.14	-0.14	ppb	16.49	12500	
207 Pb	209	1	11.57	11.57	ppb	0.08	12500	
232 Th	209	1	5.26	5.26	ppb	2.99	550	
238 U	209	1	1.45	1.45	ppb	1.70	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	746385	1.61	775171	96.3	60 - 120	
89 Y	1	2591679	0.31	2551189	101.6	60 - 120	
115 In	1	2677267	0.79	2760750	97.0	60 - 120	
209 Bi	1	3530208	1.37	3514494	100.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\076SMPL.D\076SMPL.D#
Date Acquired: Dec 23 2009 04:12 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-31-b
Misc Info:
Vial Number: 3305
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	14.73	14.73	ppb	1.61	550	
9 Be	45	1	0.62	0.62	ppb	17.95	10000	
11 B	45	1	-4.95	-4.95	ppb	5.99	550	
23 Na	45	1	82.19	82.19	ppb	1.76	300000	
24 Mg	45	1	2,688.00	2688.00	ppb	0.27	125000	
27 Al	45	1	15,760.00	15760.00	ppb	0.99	62500	
29 Si	45	1	370.80	370.80	ppb	2.55	12500	
34 S	45	1	214.80	214.80	ppb	29.13	21000	
39 K	45	1	891.20	891.20	ppb	2.08	125000	
44 Ca	45	1	1,304.00	1304.00	ppb	1.21	125000	
47 Ti	45	1	251.50	251.50	ppb	1.00	12500	
51 V	45	1	30.64	30.64	ppb	0.80	12500	
53 Cr	45	1	21.48	21.48	ppb	1.42	12500	
55 Mn	45	1	400.50	400.50	ppb	1.06	12500	
57 Fe	45	1	18,040.00	18040.00	ppb	0.75	65000	
59 Co	89	1	7.28	7.28	ppb	0.48	12500	
60 Ni	89	1	23.00	23.00	ppb	1.11	2500	
63 Cu	89	1	151.20	151.20	ppb	0.80	2500	
66 Zn	89	1	84.12	84.12	ppb	1.48	2500	
75 As	89	1	5.35	5.35	ppb	0.87	12500	
78 Se	89	1	1.81	1.81	ppb	23.94	10000	
90 Zr	89	1	4.61	4.61	ppb	2.99	550	
95 Mo	89	1	0.62	0.62	ppb	4.48	12500	
107 Ag	115	1	0.35	0.35	ppb	2.44	1000	
111 Cd	115	1	0.14	0.14	ppb	5.59	10000	
118 Sn	115	1	5.64	5.64	ppb	1.11	2500	
121 Sb	115	1	0.31	0.31	ppb	3.33	2500	
137 Ba	115	1	71.04	71.04	ppb	0.91	10000	
205 Tl	209	1	-0.13	-0.13	ppb	8.35	12500	
207 Pb	209	1	148.40	148.40	ppb	0.50	12500	
232 Th	209	1	3.96	3.96	ppb	0.46	550	
238 U	209	1	1.02	1.02	ppb	0.92	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	743445	1.28	775171	95.9	60 - 120	
89 Y	1	2641285	0.49	2551189	103.5	60 - 120	
115 In	1	2661456	0.56	2760750	96.4	60 - 120	
209 Bi	1	3524657	1.22	3514494	100.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\077SMPL.D\077SMPL.D#
Date Acquired: Dec 23 2009 04:15 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-36-b
Misc Info:
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	11.49	11.49	ppb	2.54	550	
9 Be	45	1	0.58	0.58	ppb	10.85	10000	
11 B	45	1	-2.23	-2.23	ppb	56.85	550	
23 Na	45	1	284.60	284.60	ppb	2.10	300000	
24 Mg	45	1	2,265.00	2265.00	ppb	0.81	125000	
27 Al	45	1	9,411.00	9411.00	ppb	1.77	62500	
29 Si	45	1	327.10	327.10	ppb	7.32	12500	
34 S	45	1	723.90	723.90	ppb	6.34	21000	
39 K	45	1	1,080.00	1080.00	ppb	2.08	125000	
44 Ca	45	1	3,639.00	3639.00	ppb	2.11	125000	
47 Ti	45	1	253.70	253.70	ppb	1.63	12500	
51 V	45	1	67.49	67.49	ppb	1.24	12500	
53 Cr	45	1	34.34	34.34	ppb	0.64	12500	
55 Mn	45	1	429.60	429.60	ppb	2.00	12500	
57 Fe	45	1	40,710.00	40710.00	ppb	1.06	65000	
59 Co	89	1	10.22	10.22	ppb	0.50	12500	
60 Ni	89	1	36.38	36.38	ppb	0.52	2500	
63 Cu	89	1	304.50	304.50	ppb	0.40	2500	
66 Zn	89	1	373.50	373.50	ppb	0.08	2500	
75 As	89	1	15.16	15.16	ppb	0.89	12500	
78 Se	89	1	2.51	2.51	ppb	10.83	10000	
90 Zr	89	1	2.67	2.67	ppb	4.69	550	
95 Mo	89	1	2.59	2.59	ppb	1.31	12500	
107 Ag	115	1	1.68	1.68	ppb	0.84	1000	
111 Cd	115	1	2.06	2.06	ppb	2.57	10000	
118 Sn	115	1	49.99	49.99	ppb	0.41	2500	
121 Sb	115	1	6.66	6.66	ppb	1.84	2500	
137 Ba	115	1	183.40	183.40	ppb	0.35	10000	
205 Tl	209	1	-0.09	-0.09	ppb	20.64	12500	
207 Pb	209	1	844.30	844.30	ppb	0.33	12500	
232 Th	209	1	2.85	2.85	ppb	1.00	550	
238 U	209	1	0.65	0.65	ppb	0.66	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	719837	1.88	775171	92.9	60 - 120	
89 Y	1	2520621	0.36	2551189	98.8	60 - 120	
115 In	1	2612073	0.62	2760750	94.6	60 - 120	
209 Bi	1	3488876	0.69	3514494	99.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\078SMPL.D\078SMPL.D#
Date Acquired: Dec 23 2009 04:19 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-41-b
Misc Info:
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.04	10.04	ppb	1.76	550	
9 Be	45	1	0.54	0.54	ppb	7.58	10000	
11 B	45	1	-4.82	-4.82	ppb	3.33	550	
23 Na	45	1	326.30	326.30	ppb	0.87	300000	
24 Mg	45	1	3,351.00	3351.00	ppb	0.07	125000	
27 Al	45	1	10,350.00	10350.00	ppb	0.48	62500	
29 Si	45	1	331.80	331.80	ppb	6.19	12500	
34 S	45	1	260.20	260.20	ppb	13.01	21000	
39 K	45	1	1,666.00	1666.00	ppb	1.03	125000	
44 Ca	45	1	1,484.00	1484.00	ppb	0.64	125000	
47 Ti	45	1	466.10	466.10	ppb	0.55	12500	
51 V	45	1	29.49	29.49	ppb	0.69	12500	
53 Cr	45	1	24.31	24.31	ppb	0.63	12500	
55 Mn	45	1	403.50	403.50	ppb	0.74	12500	
57 Fe	45	1	15,500.00	15500.00	ppb	0.60	65000	
59 Co	89	1	8.93	8.93	ppb	1.17	12500	
60 Ni	89	1	61.54	61.54	ppb	1.43	2500	
63 Cu	89	1	23.40	23.40	ppb	0.73	2500	
66 Zn	89	1	58.19	58.19	ppb	1.92	2500	
75 As	89	1	3.55	3.55	ppb	2.46	12500	
78 Se	89	1	1.13	1.13	ppb	19.48	10000	
90 Zr	89	1	2.37	2.37	ppb	1.52	550	
95 Mo	89	1	0.66	0.66	ppb	0.84	12500	
107 Ag	115	1	0.01	0.01	ppb	96.59	1000	
111 Cd	115	1	0.10	0.10	ppb	9.96	10000	
118 Sn	115	1	1.45	1.45	ppb	2.07	2500	
121 Sb	115	1	-0.05	-0.05	ppb	33.82	2500	
137 Ba	115	1	46.81	46.81	ppb	0.52	10000	
205 Tl	209	1	-0.16	-0.16	ppb	2.15	12500	
207 Pb	209	1	7.79	7.79	ppb	1.36	12500	
232 Th	209	1	4.58	4.58	ppb	3.09	550	
238 U	209	1	0.90	0.90	ppb	0.14	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	734704	0.94	775171	94.8	60 - 120	
89 Y	1	2552721	0.53	2551189	100.1	60 - 120	
115 In	1	2622637	0.40	2760750	95.0	60 - 120	
209 Bi	1	3485806	1.05	3514494	99.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\079SMPL.D\079SMPL.D#
Date Acquired: Dec 23 2009 04:22 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-46-b
Misc Info:
Vial Number: 3308
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	18.35	18.35	ppb	2.98	550	
9 Be	45	1	0.75	0.75	ppb	19.40	10000	
11 B	45	1	-4.15	-4.15	ppb	19.67	550	
23 Na	45	1	251.00	251.00	ppb	1.34	300000	
24 Mg	45	1	6,752.00	6752.00	ppb	0.40	125000	
27 Al	45	1	15,430.00	15430.00	ppb	1.09	62500	
29 Si	45	1	308.60	308.60	ppb	5.06	12500	
34 S	45	1	237.60	237.60	ppb	44.02	21000	
39 K	45	1	3,813.00	3813.00	ppb	1.12	125000	
44 Ca	45	1	2,398.00	2398.00	ppb	1.19	125000	
47 Ti	45	1	909.70	909.70	ppb	1.16	12500	
51 V	45	1	47.74	47.74	ppb	1.72	12500	
53 Cr	45	1	32.22	32.22	ppb	1.37	12500	
55 Mn	45	1	577.10	577.10	ppb	1.31	12500	
57 Fe	45	1	25,470.00	25470.00	ppb	0.37	65000	
59 Co	89	1	14.24	14.24	ppb	1.50	12500	
60 Ni	89	1	75.20	75.20	ppb	1.45	2500	
63 Cu	89	1	33.93	33.93	ppb	1.65	2500	
66 Zn	89	1	79.19	79.19	ppb	0.98	2500	
75 As	89	1	4.53	4.53	ppb	2.26	12500	
78 Se	89	1	2.07	2.07	ppb	13.66	10000	
90 Zr	89	1	3.76	3.76	ppb	1.44	550	
95 Mo	89	1	0.22	0.22	ppb	8.32	12500	
107 Ag	115	1	0.00	0.00	ppb	109.66	1000	
111 Cd	115	1	0.11	0.11	ppb	9.41	10000	
118 Sn	115	1	0.95	0.95	ppb	3.01	2500	
121 Sb	115	1	-0.09	-0.09	ppb	19.07	2500	
137 Ba	115	1	95.52	95.52	ppb	0.81	10000	
205 Tl	209	1	-0.06	-0.06	ppb	11.32	12500	
207 Pb	209	1	9.64	9.64	ppb	0.76	12500	
232 Th	209	1	7.79	7.79	ppb	1.27	550	
238 U	209	1	1.66	1.66	ppb	1.34	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	750112	1.41	775171	96.8	60 - 120	
89 Y	1	2632330	1.14	2551189	103.2	60 - 120	
115 In	1	2590054	0.61	2760750	93.8	60 - 120	
209 Bi	1	3443416	0.70	3514494	98.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\080SMPL.D\080SMPL.D#
Date Acquired: Dec 23 2009 04:26 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-51-b
Misc Info:
Vial Number: 3309
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	10.59	10.59	ppb	2.74	550	
9 Be	45	1	0.54	0.54	ppb	6.39	10000	
11 B	45	1	-3.88	-3.88	ppb	14.51	550	
23 Na	45	1	350.20	350.20	ppb	3.51	300000	
24 Mg	45	1	8,702.00	8702.00	ppb	0.59	125000	
27 Al	45	1	10,300.00	10300.00	ppb	0.81	62500	
29 Si	45	1	366.70	366.70	ppb	8.78	12500	
34 S	45	1	552.60	552.60	ppb	9.29	21000	
39 K	45	1	1,641.00	1641.00	ppb	1.16	125000	
44 Ca	45	1	12,950.00	12950.00	ppb	1.11	125000	
47 Ti	45	1	425.50	425.50	ppb	0.36	12500	
51 V	45	1	27.84	27.84	ppb	0.75	12500	
53 Cr	45	1	19.01	19.01	ppb	0.90	12500	
55 Mn	45	1	358.00	358.00	ppb	0.25	12500	
57 Fe	45	1	15,020.00	15020.00	ppb	0.20	65000	
59 Co	89	1	8.55	8.55	ppb	0.89	12500	
60 Ni	89	1	44.54	44.54	ppb	0.27	2500	
63 Cu	89	1	29.99	29.99	ppb	0.52	2500	
66 Zn	89	1	92.08	92.08	ppb	0.61	2500	
75 As	89	1	3.71	3.71	ppb	1.93	12500	
78 Se	89	1	1.01	1.01	ppb	8.95	10000	
90 Zr	89	1	5.73	5.73	ppb	0.75	550	
95 Mo	89	1	0.36	0.36	ppb	6.68	12500	
107 Ag	115	1	0.26	0.26	ppb	3.33	1000	
111 Cd	115	1	0.13	0.13	ppb	5.27	10000	
118 Sn	115	1	5.31	5.31	ppb	1.89	2500	
121 Sb	115	1	0.32	0.32	ppb	8.38	2500	
137 Ba	115	1	58.79	58.79	ppb	0.35	10000	
205 Tl	209	1	-0.18	-0.18	ppb	2.61	12500	
207 Pb	209	1	60.66	60.66	ppb	0.41	12500	
232 Th	209	1	4.06	4.06	ppb	1.65	550	
238 U	209	1	0.91	0.91	ppb	1.95	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	719706	0.35	775171	92.8	60 - 120	
89 Y	1	2533306	0.58	2551189	99.3	60 - 120	
115 In	1	2574858	0.62	2760750	93.3	60 - 120	
209 Bi	1	3458845	0.61	3514494	98.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\081SMPL.D\081SMPL.D#
Date Acquired: Dec 23 2009 04:29 pm
Acq. Method: STL5.M
Operator:
Sample Name: lcs 220-34544/2-a
Misc Info:
Vial Number: 3310
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.10	0.10	ppb	87.93	550	
9 Be	45	1	26.58	26.58	ppb	3.85	10000	
11 B	45	1	247.90	247.90	ppb	0.51	550	
23 Na	45	1	7,828.00	7828.00	ppb	1.11	300000	
24 Mg	45	1	3,776.00	3776.00	ppb	0.73	125000	
27 Al	45	1	1,587.00	1587.00	ppb	1.62	62500	
29 Si	45	1	237.80	237.80	ppb	1.72	12500	
34 S	45	1	417.80	417.80	ppb	36.64	21000	
39 K	45	1	5,404.00	5404.00	ppb	1.14	125000	
44 Ca	45	1	7,295.00	7295.00	ppb	0.64	125000	
47 Ti	45	1	261.00	261.00	ppb	1.02	12500	
51 V	45	1	81.16	81.16	ppb	1.06	12500	
53 Cr	45	1	76.11	76.11	ppb	1.40	12500	
55 Mn	45	1	53.60	53.60	ppb	0.43	12500	
57 Fe	45	1	5,928.00	5928.00	ppb	0.64	65000	
59 Co	89	1	83.40	83.40	ppb	0.97	12500	
60 Ni	89	1	79.20	79.20	ppb	0.53	2500	
63 Cu	89	1	80.85	80.85	ppb	0.90	2500	
66 Zn	89	1	78.83	78.83	ppb	0.55	2500	
75 As	89	1	267.90	267.90	ppb	0.93	12500	
78 Se	89	1	129.10	129.10	ppb	1.67	10000	
90 Zr	89	1	270.00	270.00	ppb	1.10	550	
95 Mo	89	1	259.20	259.20	ppb	0.82	12500	
107 Ag	115	1	80.78	80.78	ppb	0.69	1000	
111 Cd	115	1	77.25	77.25	ppb	0.79	10000	
118 Sn	115	1	256.30	256.30	ppb	1.05	2500	
121 Sb	115	1	272.50	272.50	ppb	0.79	2500	
137 Ba	115	1	75.64	75.64	ppb	1.01	10000	
205 Tl	209	1	238.60	238.60	ppb	1.36	12500	
207 Pb	209	1	263.80	263.80	ppb	0.90	12500	
232 Th	209	1	0.41	0.41	ppb	25.34	550	
238 U	209	1	-0.01	-0.01	ppb	15.99	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	731494	0.47	775171	94.4	60 - 120	
89 Y	1	2434149	0.71	2551189	95.4	60 - 120	
115 In	1	2649547	1.39	2760750	96.0	60 - 120	
209 Bi	1	3504761	1.40	3514494	99.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\082SMPL.D\082SMPL.D#
Date Acquired: Dec 23 2009 04:34 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3311
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	83.50	83.50	ppb	1.45	550	
9 Be	45	1	120.20	120.20	ppb	1.07	10000	
11 B	45	1	189.10	189.10	ppb	1.11	550	
23 Na	45	1	2,080.00	2080.00	ppb	1.47	300000	
24 Mg	45	1	2,613.00	2613.00	ppb	1.20	125000	
27 Al	45	1	3,707.00	3707.00	ppb	1.26	62500	
29 Si	45	1	164.90	164.90	ppb	1.08	12500	
34 S	45	1	11,060.00	11060.00	ppb	1.59	21000	
39 K	45	1	4,216.00	4216.00	ppb	1.77	125000	
44 Ca	45	1	2,538.00	2538.00	ppb	0.60	125000	
47 Ti	45	1	198.20	198.20	ppb	0.98	12500	
51 V	45	1	61.68	61.68	ppb	0.73	12500	
53 Cr	45	1	58.33	58.33	ppb	1.19	12500	
55 Mn	45	1	41.91	41.91	ppb	1.29	12500	
57 Fe	45	1	996.00	996.00	ppb	1.17	65000	
59 Co	89	1	63.08	63.08	ppb	1.58	12500	
60 Ni	89	1	59.90	59.90	ppb	1.06	2500	
63 Cu	89	1	61.24	61.24	ppb	0.58	2500	
66 Zn	89	1	60.47	60.47	ppb	0.43	2500	
75 As	89	1	201.80	201.80	ppb	0.65	12500	
78 Se	89	1	97.98	97.98	ppb	2.23	10000	
90 Zr	89	1	168.90	168.90	ppb	0.57	550	
95 Mo	89	1	195.10	195.10	ppb	0.44	12500	
107 Ag	115	1	62.13	62.13	ppb	0.98	1000	
111 Cd	115	1	59.41	59.41	ppb	0.52	10000	
118 Sn	115	1	192.10	192.10	ppb	0.34	2500	
121 Sb	115	1	204.20	204.20	ppb	0.71	2500	
137 Ba	115	1	57.85	57.85	ppb	0.17	10000	
205 Tl	209	1	192.70	192.70	ppb	2.73	12500	
207 Pb	209	1	205.80	205.80	ppb	1.99	12500	
232 Th	209	1	72.05	72.05	ppb	1.02	550	
238 U	209	1	74.76	74.76	ppb	1.68	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	729318	1.14	775171	94.1	60 - 120	
89 Y	1	2462504	0.82	2551189	96.5	60 - 120	
115 In	1	2692452	1.15	2760750	97.5	60 - 120	
209 Bi	1	3449554	3.01	3514494	98.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\083SMPL.D\083SMPL.D#
Date Acquired: Dec 23 2009 04:41 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3312
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.00	0.00	ppb	3996.80	550	
9 Be	45	1	0.03	0.03	ppb	3.32	10000	
11 B	45	1	-2.32	-2.32	ppb	22.46	550	
23 Na	45	1	1.12	1.12	ppb	25.30	300000	
24 Mg	45	1	3.65	3.65	ppb	38.73	125000	
27 Al	45	1	8.07	8.07	ppb	44.30	62500	
29 Si	45	1	-8.20	-8.20	ppb	91.25	12500	
34 S	45	1	417.00	417.00	ppb	18.08	21000	
39 K	45	1	10.61	10.61	ppb	7.16	125000	
44 Ca	45	1	3.81	3.81	ppb	62.62	125000	
47 Ti	45	1	0.26	0.26	ppb	10.05	12500	
51 V	45	1	0.04	0.04	ppb	43.58	12500	
53 Cr	45	1	0.03	0.03	ppb	74.84	12500	
55 Mn	45	1	0.28	0.28	ppb	37.14	12500	
57 Fe	45	1	11.15	11.15	ppb	43.12	65000	
59 Co	89	1	0.02	0.02	ppb	22.02	12500	
60 Ni	89	1	-0.02	-0.02	ppb	46.81	2500	
63 Cu	89	1	-0.12	-0.12	ppb	24.69	2500	
66 Zn	89	1	-0.42	-0.42	ppb	9.09	2500	
75 As	89	1	0.07	0.07	ppb	23.70	12500	
78 Se	89	1	0.08	0.08	ppb	71.73	10000	
90 Zr	89	1	-0.01	-0.01	ppb	96.84	550	
95 Mo	89	1	0.44	0.44	ppb	15.39	12500	
107 Ag	115	1	0.01	0.01	ppb	31.44	1000	
111 Cd	115	1	0.01	0.01	ppb	46.71	10000	
118 Sn	115	1	1.35	1.35	ppb	7.24	2500	
121 Sb	115	1	0.43	0.43	ppb	9.07	2500	
137 Ba	115	1	0.04	0.04	ppb	71.84	10000	
205 Tl	209	1	-0.10	-0.10	ppb	12.41	12500	
207 Pb	209	1	0.14	0.14	ppb	24.10	12500	
232 Th	209	1	0.46	0.46	ppb	8.99	550	
238 U	209	1	0.01	0.01	ppb	50.92	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	694447	1.82	775171	89.6	60 - 120	
89 Y	1	2421498	1.01	2551189	94.9	60 - 120	
115 In	1	2661033	1.04	2760750	96.4	60 - 120	
209 Bi	1	3475743	0.38	3514494	98.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\084SMPL.D\084SMPL.D#
Date Acquired: Dec 23 2009 04:44 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-56-b
Misc Info:
Vial Number: 3401
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	15.80	15.80	ppb	2.32	550	
9 Be	45	1	0.83	0.83	ppb	14.85	10000	
11 B	45	1	-1.67	-1.67	ppb	4.40	550	
23 Na	45	1	154.10	154.10	ppb	0.20	300000	
24 Mg	45	1	4,272.00	4272.00	ppb	0.40	125000	
27 Al	45	1	14,920.00	14920.00	ppb	0.38	62500	
29 Si	45	1	290.60	290.60	ppb	2.23	12500	
34 S	45	1	249.80	249.80	ppb	26.21	21000	
39 K	45	1	1,926.00	1926.00	ppb	0.95	125000	
44 Ca	45	1	1,197.00	1197.00	ppb	0.17	125000	
47 Ti	45	1	538.40	538.40	ppb	0.86	12500	
51 V	45	1	37.90	37.90	ppb	0.12	12500	
53 Cr	45	1	32.56	32.56	ppb	0.66	12500	
55 Mn	45	1	476.80	476.80	ppb	0.19	12500	
57 Fe	45	1	21,380.00	21380.00	ppb	0.42	65000	
59 Co	89	1	10.87	10.87	ppb	0.88	12500	
60 Ni	89	1	43.63	43.63	ppb	0.61	2500	
63 Cu	89	1	31.48	31.48	ppb	0.61	2500	
66 Zn	89	1	57.09	57.09	ppb	0.41	2500	
75 As	89	1	3.92	3.92	ppb	0.39	12500	
78 Se	89	1	1.36	1.36	ppb	14.95	10000	
90 Zr	89	1	4.87	4.87	ppb	1.60	550	
95 Mo	89	1	0.67	0.67	ppb	4.19	12500	
107 Ag	115	1	0.05	0.05	ppb	24.48	1000	
111 Cd	115	1	0.06	0.06	ppb	16.75	10000	
118 Sn	115	1	2.09	2.09	ppb	5.86	2500	
121 Sb	115	1	0.24	0.24	ppb	2.31	2500	
137 Ba	115	1	59.33	59.33	ppb	0.38	10000	
205 Tl	209	1	-0.04	-0.04	ppb	32.95	12500	
207 Pb	209	1	20.98	20.98	ppb	1.30	12500	
232 Th	209	1	4.78	4.78	ppb	3.81	550	
238 U	209	1	0.95	0.95	ppb	1.64	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	749306	0.75	775171	96.7	60 - 120	
89 Y	1	2579207	0.23	2551189	101.1	60 - 120	
115 In	1	2645849	0.36	2760750	95.8	60 - 120	
209 Bi	1	3478447	0.54	3514494	99.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\085SMPL.D\085SMPL.D#
Date Acquired: Dec 23 2009 04:48 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-61-b
Misc Info:
Vial Number: 3402
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	16.63	16.63	ppb	1.73	550	
9 Be	45	1	0.84	0.84	ppb	20.31	10000	
11 B	45	1	-2.64	-2.64	ppb	13.11	550	
23 Na	45	1	168.90	168.90	ppb	1.06	300000	
24 Mg	45	1	6,382.00	6382.00	ppb	0.44	125000	
27 Al	45	1	13,790.00	13790.00	ppb	0.50	62500	
29 Si	45	1	444.70	444.70	ppb	2.81	12500	
34 S	45	1	254.30	254.30	ppb	49.82	21000	
39 K	45	1	2,929.00	2929.00	ppb	0.67	125000	
44 Ca	45	1	2,784.00	2784.00	ppb	0.73	125000	
47 Ti	45	1	894.30	894.30	ppb	0.67	12500	
51 V	45	1	44.48	44.48	ppb	0.64	12500	
53 Cr	45	1	32.56	32.56	ppb	1.96	12500	
55 Mn	45	1	470.20	470.20	ppb	1.20	12500	
57 Fe	45	1	24,860.00	24860.00	ppb	1.05	65000	
59 Co	89	1	12.19	12.19	ppb	0.47	12500	
60 Ni	89	1	33.61	33.61	ppb	0.06	2500	
63 Cu	89	1	25.91	25.91	ppb	0.68	2500	
66 Zn	89	1	69.70	69.70	ppb	0.49	2500	
75 As	89	1	2.33	2.33	ppb	2.56	12500	
78 Se	89	1	2.02	2.02	ppb	14.96	10000	
90 Zr	89	1	3.86	3.86	ppb	1.14	550	
95 Mo	89	1	0.29	0.29	ppb	9.16	12500	
107 Ag	115	1	0.03	0.03	ppb	41.12	1000	
111 Cd	115	1	0.10	0.10	ppb	14.12	10000	
118 Sn	115	1	1.30	1.30	ppb	5.06	2500	
121 Sb	115	1	0.06	0.06	ppb	46.58	2500	
137 Ba	115	1	94.86	94.86	ppb	0.84	10000	
205 Tl	209	1	0.00	0.00	ppb	375.27	12500	
207 Pb	209	1	9.78	9.78	ppb	1.86	12500	
232 Th	209	1	7.05	7.05	ppb	1.00	550	
238 U	209	1	0.91	0.91	ppb	2.37	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	753823	1.20	775171	97.2	60 - 120	
89 Y	1	2672682	0.31	2551189	104.8	60 - 120	
115 In	1	2640310	0.68	2760750	95.6	60 - 120	
209 Bi	1	3498939	1.05	3514494	99.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\086SMPL.D\086SMPL.D#
Date Acquired: Dec 23 2009 04:51 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-66-b
Misc Info:
Vial Number: 3403
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	14.70	14.70	ppb	2.29	550	
9 Be	45	1	0.55	0.55	ppb	3.39	10000	
11 B	45	1	-4.11	-4.11	ppb	55.31	550	
23 Na	45	1	114.10	114.10	ppb	0.81	300000	
24 Mg	45	1	2,534.00	2534.00	ppb	0.89	125000	
27 Al	45	1	13,370.00	13370.00	ppb	0.74	62500	
29 Si	45	1	193.80	193.80	ppb	5.73	12500	
34 S	45	1	369.60	369.60	ppb	8.79	21000	
39 K	45	1	1,223.00	1223.00	ppb	0.79	125000	
44 Ca	45	1	1,513.00	1513.00	ppb	0.54	125000	
47 Ti	45	1	254.80	254.80	ppb	0.39	12500	
51 V	45	1	32.90	32.90	ppb	0.98	12500	
53 Cr	45	1	22.33	22.33	ppb	1.71	12500	
55 Mn	45	1	417.80	417.80	ppb	1.40	12500	
57 Fe	45	1	17,020.00	17020.00	ppb	1.17	65000	
59 Co	89	1	6.79	6.79	ppb	0.46	12500	
60 Ni	89	1	20.54	20.54	ppb	0.47	2500	
63 Cu	89	1	59.92	59.92	ppb	0.87	2500	
66 Zn	89	1	113.50	113.50	ppb	0.17	2500	
75 As	89	1	4.29	4.29	ppb	1.69	12500	
78 Se	89	1	1.45	1.45	ppb	16.71	10000	
90 Zr	89	1	6.52	6.52	ppb	0.50	550	
95 Mo	89	1	1.14	1.14	ppb	2.73	12500	
107 Ag	115	1	0.33	0.33	ppb	0.04	1000	
111 Cd	115	1	2.22	2.22	ppb	1.06	10000	
118 Sn	115	1	4.59	4.59	ppb	1.29	2500	
121 Sb	115	1	0.70	0.70	ppb	6.98	2500	
137 Ba	115	1	102.60	102.60	ppb	0.84	10000	
205 Tl	209	1	-0.06	-0.06	ppb	32.69	12500	
207 Pb	209	1	70.79	70.79	ppb	0.73	12500	
232 Th	209	1	5.10	5.10	ppb	0.75	550	
238 U	209	1	1.20	1.20	ppb	2.43	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	741048	0.68	775171	95.6	60 - 120	
89 Y	1	2566707	0.60	2551189	100.6	60 - 120	
115 In	1	2636444	1.27	2760750	95.5	60 - 120	
209 Bi	1	3483906	1.41	3514494	99.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\087SMPL.D\087SMPL.D#
Date Acquired: Dec 23 2009 04:55 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-71-b
Misc Info:
Vial Number: 3404
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	7.80	7.80	ppb	4.61	550	
9 Be	45	1	0.40	0.40	ppb	22.13	10000	
11 B	45	1	-3.30	-3.30	ppb	59.41	550	
23 Na	45	1	457.40	457.40	ppb	3.24	300000	
24 Mg	45	1	4,150.00	4150.00	ppb	1.02	125000	
27 Al	45	1	5,994.00	5994.00	ppb	1.28	62500	
29 Si	45	1	424.40	424.40	ppb	10.04	12500	
34 S	45	1	233.70	233.70	ppb	54.90	21000	
39 K	45	1	1,460.00	1460.00	ppb	1.91	125000	
44 Ca	45	1	2,133.00	2133.00	ppb	1.32	125000	
47 Ti	45	1	393.20	393.20	ppb	1.06	12500	
51 V	45	1	22.56	22.56	ppb	1.25	12500	
53 Cr	45	1	28.84	28.84	ppb	1.72	12500	
55 Mn	45	1	313.00	313.00	ppb	0.52	12500	
57 Fe	45	1	12,300.00	12300.00	ppb	0.93	65000	
59 Co	89	1	6.88	6.88	ppb	1.73	12500	
60 Ni	89	1	40.11	40.11	ppb	0.56	2500	
63 Cu	89	1	19.29	19.29	ppb	1.12	2500	
66 Zn	89	1	37.46	37.46	ppb	1.03	2500	
75 As	89	1	1.89	1.89	ppb	4.17	12500	
78 Se	89	1	0.95	0.95	ppb	27.09	10000	
90 Zr	89	1	2.82	2.82	ppb	1.13	550	
95 Mo	89	1	1.76	1.76	ppb	1.56	12500	
107 Ag	115	1	0.00	0.00	ppb	148.11	1000	
111 Cd	115	1	0.10	0.10	ppb	32.21	10000	
118 Sn	115	1	0.82	0.82	ppb	10.37	2500	
121 Sb	115	1	-0.05	-0.05	ppb	37.73	2500	
137 Ba	115	1	33.18	33.18	ppb	0.96	10000	
205 Tl	209	1	-0.19	-0.19	ppb	1.04	12500	
207 Pb	209	1	5.28	5.28	ppb	1.57	12500	
232 Th	209	1	4.25	4.25	ppb	0.92	550	
238 U	209	1	0.80	0.80	ppb	1.81	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	726429	1.46	775171	93.7	60 - 120	
89 Y	1	2538975	0.52	2551189	99.5	60 - 120	
115 In	1	2627515	0.40	2760750	95.2	60 - 120	
209 Bi	1	3481105	0.85	3514494	99.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\088SMPL.D\088SMPL.D#
Date Acquired: Dec 23 2009 04:58 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11115-b-76-b
Misc Info:
Vial Number: 3405
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	14.21	14.21	ppb	1.25	550	
9 Be	45	1	0.32	0.32	ppb	11.58	10000	
11 B	45	1	9.80	9.80	ppb	11.52	550	
23 Na	45	1	581.50	581.50	ppb	0.66	300000	
24 Mg	45	1	7,348.00	7348.00	ppb	0.85	125000	
27 Al	45	1	7,383.00	7383.00	ppb	0.05	62500	
29 Si	45	1	454.10	454.10	ppb	9.00	12500	
34 S	45	1	305.30	305.30	ppb	20.97	21000	
39 K	45	1	1,652.00	1652.00	ppb	1.80	125000	
44 Ca	45	1	3,061.00	3061.00	ppb	1.26	125000	
47 Ti	45	1	439.60	439.60	ppb	0.79	12500	
51 V	45	1	25.52	25.52	ppb	0.24	12500	
53 Cr	45	1	20.59	20.59	ppb	1.12	12500	
55 Mn	45	1	359.10	359.10	ppb	0.44	12500	
57 Fe	45	1	13,250.00	13250.00	ppb	0.13	65000	
59 Co	89	1	8.61	8.61	ppb	0.96	12500	
60 Ni	89	1	48.41	48.41	ppb	0.51	2500	
63 Cu	89	1	21.79	21.79	ppb	0.90	2500	
66 Zn	89	1	42.49	42.49	ppb	1.88	2500	
75 As	89	1	1.84	1.84	ppb	5.01	12500	
78 Se	89	1	0.94	0.94	ppb	49.74	10000	
90 Zr	89	1	3.18	3.18	ppb	1.38	550	
95 Mo	89	1	1.01	1.01	ppb	3.94	12500	
107 Ag	115	1	0.02	0.02	ppb	40.17	1000	
111 Cd	115	1	0.07	0.07	ppb	20.62	10000	
118 Sn	115	1	0.82	0.82	ppb	2.53	2500	
121 Sb	115	1	-0.05	-0.05	ppb	26.12	2500	
137 Ba	115	1	33.60	33.60	ppb	0.54	10000	
205 Tl	209	1	-0.16	-0.16	ppb	5.75	12500	
207 Pb	209	1	6.56	6.56	ppb	1.90	12500	
232 Th	209	1	5.04	5.04	ppb	1.07	550	
238 U	209	1	0.90	0.90	ppb	4.00	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	735107	0.76	775171	94.8	60 - 120	
89 Y	1	2571878	0.68	2551189	100.8	60 - 120	
115 In	1	2648434	0.44	2760750	95.9	60 - 120	
209 Bi	1	3491644	1.43	3514494	99.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\089SMPL.D\089SMPL.D#
Date Acquired: Dec 23 2009 05:02 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-1-d
Misc Info:
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	8.40	8.40	ppb	1.53	550	
9 Be	45	1	0.67	0.67	ppb	19.19	10000	
11 B	45	1	1.50	1.50	ppb	132.76	550	
23 Na	45	1	382.40	382.40	ppb	0.38	300000	
24 Mg	45	1	4,380.00	4380.00	ppb	0.06	125000	
27 Al	45	1	10,090.00	10090.00	ppb	1.10	62500	
29 Si	45	1	1,236.00	1236.00	ppb	3.52	12500	
34 S	45	1	1,243.00	1243.00	ppb	5.14	21000	
39 K	45	1	892.50	892.50	ppb	1.37	125000	
44 Ca	45	1	17,360.00	17360.00	ppb	0.58	125000	
47 Ti	45	1	197.50	197.50	ppb	0.86	12500	
51 V	45	1	24.54	24.54	ppb	0.30	12500	
53 Cr	45	1	21.77	21.77	ppb	0.61	12500	
55 Mn	45	1	331.20	331.20	ppb	0.74	12500	
57 Fe	45	1	11,780.00	11780.00	ppb	1.02	65000	
59 Co	89	1	3.37	3.37	ppb	0.44	12500	
60 Ni	89	1	8.04	8.04	ppb	1.64	2500	
63 Cu	89	1	11.68	11.68	ppb	0.61	2500	
66 Zn	89	1	38.81	38.81	ppb	0.69	2500	
75 As	89	1	4.83	4.83	ppb	2.66	12500	
78 Se	89	1	0.96	0.96	ppb	16.93	10000	
90 Zr	89	1	9.24	9.24	ppb	0.17	550	
95 Mo	89	1	0.78	0.78	ppb	4.26	12500	
107 Ag	115	1	0.04	0.04	ppb	29.95	1000	
111 Cd	115	1	0.11	0.11	ppb	12.42	10000	
118 Sn	115	1	0.89	0.89	ppb	4.52	2500	
121 Sb	115	1	0.07	0.07	ppb	47.26	2500	
137 Ba	115	1	40.03	40.03	ppb	0.56	10000	
205 Tl	209	1	-0.20	-0.20	ppb	15.21	12500	
207 Pb	209	1	11.31	11.31	ppb	0.77	12500	
232 Th	209	1	2.20	2.20	ppb	1.14	550	
238 U	209	1	0.82	0.82	ppb	0.89	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	733614	0.84	775171	94.6	60 - 120	
89 Y	1	2529179	0.70	2551189	99.1	60 - 120	
115 In	1	2668126	0.75	2760750	96.6	60 - 120	
209 Bi	1	3522648	1.26	3514494	100.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\090SMPL.D\090SMPL.D#
Date Acquired: Dec 23 2009 05:05 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-2-d
Misc Info:
Vial Number: 3407
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	33.90	33.90	ppb	1.14	550	
9 Be	45	1	1.32	1.32	ppb	6.27	10000	
11 B	45	1	7.56	7.56	ppb	25.64	550	
23 Na	45	1	1,913.00	1913.00	ppb	1.22	300000	
24 Mg	45	1	6,298.00	6298.00	ppb	0.88	125000	
27 Al	45	1	20,120.00	20120.00	ppb	1.23	62500	
29 Si	45	1	362.10	362.10	ppb	4.75	12500	
34 S	45	1	777.70	777.70	ppb	10.65	21000	
39 K	45	1	3,107.00	3107.00	ppb	1.70	125000	
44 Ca	45	1	2,022.00	2022.00	ppb	2.10	125000	
47 Ti	45	1	495.70	495.70	ppb	0.40	12500	
51 V	45	1	47.83	47.83	ppb	0.99	12500	
53 Cr	45	1	80.55	80.55	ppb	0.76	12500	
55 Mn	45	1	456.20	456.20	ppb	0.61	12500	
57 Fe	45	1	28,330.00	28330.00	ppb	0.86	65000	
59 Co	89	1	9.22	9.22	ppb	0.53	12500	
60 Ni	89	1	22.44	22.44	ppb	0.86	2500	
63 Cu	89	1	42.31	42.31	ppb	0.21	2500	
66 Zn	89	1	181.10	181.10	ppb	0.19	2500	
75 As	89	1	16.26	16.26	ppb	0.62	12500	
78 Se	89	1	2.62	2.62	ppb	4.44	10000	
90 Zr	89	1	12.39	12.39	ppb	0.66	550	
95 Mo	89	1	0.33	0.33	ppb	4.79	12500	
107 Ag	115	1	0.41	0.41	ppb	1.64	1000	
111 Cd	115	1	0.23	0.23	ppb	5.08	10000	
118 Sn	115	1	6.69	6.69	ppb	1.85	2500	
121 Sb	115	1	0.36	0.36	ppb	8.49	2500	
137 Ba	115	1	82.06	82.06	ppb	0.72	10000	
205 Tl	209	1	-0.08	-0.08	ppb	31.78	12500	
207 Pb	209	1	96.01	96.01	ppb	0.39	12500	
232 Th	209	1	6.61	6.61	ppb	1.07	550	
238 U	209	1	1.15	1.15	ppb	0.78	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	757105	1.85	775171	97.7	60 - 120	
89 Y	1	2664611	0.95	2551189	104.4	60 - 120	
115 In	1	2619669	0.34	2760750	94.9	60 - 120	
209 Bi	1	3456477	0.63	3514494	98.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\091SMPL.D\091SMPL.D#
Date Acquired: Dec 23 2009 05:09 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-3-d
Misc Info:
Vial Number: 3408
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	24.60	24.60	ppb	2.01	550	
9 Be	45	1	0.75	0.75	ppb	7.03	10000	
11 B	45	1	8.23	8.23	ppb	26.93	550	
23 Na	45	1	1,490.00	1490.00	ppb	0.97	300000	
24 Mg	45	1	5,694.00	5694.00	ppb	0.34	125000	
27 Al	45	1	13,850.00	13850.00	ppb	0.23	62500	
29 Si	45	1	405.90	405.90	ppb	6.11	12500	
34 S	45	1	1,546.00	1546.00	ppb	6.62	21000	
39 K	45	1	2,514.00	2514.00	ppb	0.56	125000	
44 Ca	45	1	2,278.00	2278.00	ppb	0.76	125000	
47 Ti	45	1	462.10	462.10	ppb	0.64	12500	
51 V	45	1	32.54	32.54	ppb	0.35	12500	
53 Cr	45	1	32.54	32.54	ppb	2.37	12500	
55 Mn	45	1	606.20	606.20	ppb	0.43	12500	
57 Fe	45	1	21,820.00	21820.00	ppb	0.35	65000	
59 Co	89	1	7.65	7.65	ppb	0.39	12500	
60 Ni	89	1	17.30	17.30	ppb	0.50	2500	
63 Cu	89	1	6.72	6.72	ppb	0.77	2500	
66 Zn	89	1	47.95	47.95	ppb	1.56	2500	
75 As	89	1	5.22	5.22	ppb	0.45	12500	
78 Se	89	1	1.64	1.64	ppb	26.77	10000	
90 Zr	89	1	11.15	11.15	ppb	1.41	550	
95 Mo	89	1	0.19	0.19	ppb	13.61	12500	
107 Ag	115	1	0.03	0.03	ppb	32.02	1000	
111 Cd	115	1	0.06	0.06	ppb	27.84	10000	
118 Sn	115	1	0.71	0.71	ppb	4.60	2500	
121 Sb	115	1	-0.07	-0.07	ppb	26.69	2500	
137 Ba	115	1	39.15	39.15	ppb	0.48	10000	
205 Tl	209	1	-0.16	-0.16	ppb	10.60	12500	
207 Pb	209	1	7.66	7.66	ppb	1.51	12500	
232 Th	209	1	4.99	4.99	ppb	0.67	550	
238 U	209	1	1.27	1.27	ppb	1.52	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	770746	0.10	775171	99.4	60 - 120	
89 Y	1	2670153	0.56	2551189	104.7	60 - 120	
115 In	1	2700264	0.31	2760750	97.8	60 - 120	
209 Bi	1	3485632	1.24	3514494	99.2	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\092SMPL.D\092SMPL.D#
Date Acquired: Dec 23 2009 05:12 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-4-d
Misc Info:
Vial Number: 3409
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	12.19	12.19	ppb	2.32	550	
9 Be	45	1	0.58	0.58	ppb	8.83	10000	
11 B	45	1	1.11	1.11	ppb	68.60	550	
23 Na	45	1	376.30	376.30	ppb	2.03	300000	
24 Mg	45	1	4,838.00	4838.00	ppb	0.85	125000	
27 Al	45	1	9,997.00	9997.00	ppb	1.07	62500	
29 Si	45	1	934.60	934.60	ppb	2.42	12500	
34 S	45	1	1,489.00	1489.00	ppb	4.52	21000	
39 K	45	1	1,213.00	1213.00	ppb	1.75	125000	
44 Ca	45	1	9,627.00	9627.00	ppb	0.53	125000	
47 Ti	45	1	269.60	269.60	ppb	0.45	12500	
51 V	45	1	22.54	22.54	ppb	0.82	12500	
53 Cr	45	1	23.94	23.94	ppb	2.96	12500	
55 Mn	45	1	482.30	482.30	ppb	0.61	12500	
57 Fe	45	1	14,700.00	14700.00	ppb	0.54	65000	
59 Co	89	1	5.96	5.96	ppb	1.91	12500	
60 Ni	89	1	16.60	16.60	ppb	0.70	2500	
63 Cu	89	1	15.73	15.73	ppb	0.34	2500	
66 Zn	89	1	97.31	97.31	ppb	0.44	2500	
75 As	89	1	6.84	6.84	ppb	1.47	12500	
78 Se	89	1	1.33	1.33	ppb	18.25	10000	
90 Zr	89	1	8.78	8.78	ppb	1.54	550	
95 Mo	89	1	0.70	0.70	ppb	6.27	12500	
107 Ag	115	1	0.12	0.12	ppb	12.07	1000	
111 Cd	115	1	0.29	0.29	ppb	3.07	10000	
118 Sn	115	1	1.30	1.30	ppb	2.44	2500	
121 Sb	115	1	0.03	0.03	ppb	46.24	2500	
137 Ba	115	1	39.83	39.83	ppb	1.24	10000	
205 Tl	209	1	-0.19	-0.19	ppb	8.63	12500	
207 Pb	209	1	17.56	17.56	ppb	0.64	12500	
232 Th	209	1	3.30	3.30	ppb	1.06	550	
238 U	209	1	0.72	0.72	ppb	2.55	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	761451	0.50	775171	98.2	60 - 120	
89 Y	1	2628666	0.16	2551189	103.0	60 - 120	
115 In	1	2710521	0.81	2760750	98.2	60 - 120	
209 Bi	1	3524031	0.57	3514494	100.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\093SMPL.D\093SMPL.D#
Date Acquired: Dec 23 2009 05:16 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-5-c
Misc Info:
Vial Number: 3410
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	31.09	31.09	ppb	2.36	550	
9 Be	45	1	0.92	0.92	ppb	3.95	10000	
11 B	45	1	6.40	6.40	ppb	8.49	550	
23 Na	45	1	1,356.00	1356.00	ppb	1.57	300000	
24 Mg	45	1	5,782.00	5782.00	ppb	0.48	125000	
27 Al	45	1	18,450.00	18450.00	ppb	0.96	62500	
29 Si	45	1	405.70	405.70	ppb	5.23	12500	
34 S	45	1	1,170.00	1170.00	ppb	8.87	21000	
39 K	45	1	2,788.00	2788.00	ppb	0.43	125000	
44 Ca	45	1	2,014.00	2014.00	ppb	0.99	125000	
47 Ti	45	1	639.10	639.10	ppb	0.39	12500	
51 V	45	1	62.97	62.97	ppb	0.16	12500	
53 Cr	45	1	97.78	97.78	ppb	0.55	12500	
55 Mn	45	1	1,280.00	1280.00	ppb	0.63	12500	
57 Fe	45	1	29,010.00	29010.00	ppb	0.73	65000	
59 Co	89	1	17.85	17.85	ppb	0.63	12500	
60 Ni	89	1	22.74	22.74	ppb	0.45	2500	
63 Cu	89	1	64.57	64.57	ppb	0.19	2500	
66 Zn	89	1	236.00	236.00	ppb	0.41	2500	
75 As	89	1	19.84	19.84	ppb	0.66	12500	
78 Se	89	1	3.33	3.33	ppb	17.96	10000	
90 Zr	89	1	18.11	18.11	ppb	1.42	550	
95 Mo	89	1	0.77	0.77	ppb	3.53	12500	
107 Ag	115	1	1.01	1.01	ppb	2.23	1000	
111 Cd	115	1	0.24	0.24	ppb	13.56	10000	
118 Sn	115	1	6.48	6.48	ppb	0.36	2500	
121 Sb	115	1	0.55	0.55	ppb	5.26	2500	
137 Ba	115	1	67.50	67.50	ppb	1.46	10000	
205 Tl	209	1	-0.11	-0.11	ppb	10.63	12500	
207 Pb	209	1	118.20	118.20	ppb	0.69	12500	
232 Th	209	1	6.73	6.73	ppb	1.85	550	
238 U	209	1	2.15	2.15	ppb	1.47	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	761555	0.50	775171	98.2	60 - 120	
89 Y	1	2662174	0.41	2551189	104.4	60 - 120	
115 In	1	2653060	0.89	2760750	96.1	60 - 120	
209 Bi	1	3439607	1.50	3514494	97.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\094SMPL.D\094SMPL.D#
Date Acquired: Dec 23 2009 05:19 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3411
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	80.10	80.10	ppb	1.13	550	
9 Be	45	1	116.40	116.40	ppb	1.83	10000	
11 B	45	1	180.90	180.90	ppb	3.72	550	
23 Na	45	1	2,056.00	2056.00	ppb	0.78	300000	
24 Mg	45	1	2,583.00	2583.00	ppb	1.87	125000	
27 Al	45	1	3,648.00	3648.00	ppb	1.68	62500	
29 Si	45	1	145.70	145.70	ppb	4.99	12500	
34 S	45	1	10,790.00	10790.00	ppb	3.08	21000	
39 K	45	1	4,153.00	4153.00	ppb	0.52	125000	
44 Ca	45	1	2,500.00	2500.00	ppb	0.53	125000	
47 Ti	45	1	195.80	195.80	ppb	1.53	12500	
51 V	45	1	61.09	61.09	ppb	0.99	12500	
53 Cr	45	1	57.20	57.20	ppb	0.84	12500	
55 Mn	45	1	41.40	41.40	ppb	2.02	12500	
57 Fe	45	1	989.60	989.60	ppb	2.84	65000	
59 Co	89	1	63.26	63.26	ppb	0.23	12500	
60 Ni	89	1	59.75	59.75	ppb	0.24	2500	
63 Cu	89	1	61.30	61.30	ppb	0.41	2500	
66 Zn	89	1	60.70	60.70	ppb	0.93	2500	
75 As	89	1	199.10	199.10	ppb	0.57	12500	
78 Se	89	1	97.80	97.80	ppb	3.81	10000	
90 Zr	89	1	163.50	163.50	ppb	0.42	550	
95 Mo	89	1	194.30	194.30	ppb	0.71	12500	
107 Ag	115	1	62.71	62.71	ppb	1.41	1000	
111 Cd	115	1	59.62	59.62	ppb	0.89	10000	
118 Sn	115	1	191.40	191.40	ppb	1.31	2500	
121 Sb	115	1	202.90	202.90	ppb	0.57	2500	
137 Ba	115	1	57.76	57.76	ppb	1.32	10000	
205 Tl	209	1	189.40	189.40	ppb	0.60	12500	
207 Pb	209	1	204.50	204.50	ppb	1.57	12500	
232 Th	209	1	71.58	71.58	ppb	1.23	550	
238 U	209	1	73.58	73.58	ppb	1.13	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	747534	1.97	775171	96.4	60 - 120	
89 Y	1	2496931	0.46	2551189	97.9	60 - 120	
115 In	1	2683918	1.80	2760750	97.2	60 - 120	
209 Bi	1	3440530	1.33	3514494	97.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\095SMPL.D\095SMPL.D#
Date Acquired: Dec 23 2009 05:25 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3412
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	0.02	0.02	ppb	126.44	550	
9 Be	45	1	0.05	0.05	ppb	39.34	10000	
11 B	45	1	-2.91	-2.91	ppb	77.56	550	
23 Na	45	1	0.23	0.23	ppb	234.29	300000	
24 Mg	45	1	2.69	2.69	ppb	37.35	125000	
27 Al	45	1	6.35	6.35	ppb	43.91	62500	
29 Si	45	1	-14.59	-14.59	ppb	27.52	12500	
34 S	45	1	301.10	301.10	ppb	42.84	21000	
39 K	45	1	9.43	9.43	ppb	20.05	125000	
44 Ca	45	1	1.71	1.71	ppb	98.48	125000	
47 Ti	45	1	0.33	0.33	ppb	16.34	12500	
51 V	45	1	0.03	0.03	ppb	22.27	12500	
53 Cr	45	1	0.07	0.07	ppb	71.62	12500	
55 Mn	45	1	0.27	0.27	ppb	25.66	12500	
57 Fe	45	1	8.23	8.23	ppb	35.10	65000	
59 Co	89	1	0.01	0.01	ppb	5.21	12500	
60 Ni	89	1	-0.04	-0.04	ppb	38.53	2500	
63 Cu	89	1	-0.14	-0.14	ppb	8.16	2500	
66 Zn	89	1	-0.44	-0.44	ppb	3.51	2500	
75 As	89	1	0.07	0.07	ppb	5.15	12500	
78 Se	89	1	-0.03	-0.03	ppb	188.34	10000	
90 Zr	89	1	-0.01	-0.01	ppb	86.73	550	
95 Mo	89	1	0.50	0.50	ppb	18.99	12500	
107 Ag	115	1	0.01	0.01	ppb	40.44	1000	
111 Cd	115	1	0.01	0.01	ppb	33.13	10000	
118 Sn	115	1	1.23	1.23	ppb	12.36	2500	
121 Sb	115	1	0.58	0.58	ppb	4.72	2500	
137 Ba	115	1	0.01	0.01	ppb	175.38	10000	
205 Tl	209	1	-0.17	-0.17	ppb	3.41	12500	
207 Pb	209	1	0.10	0.10	ppb	22.81	12500	
232 Th	209	1	0.39	0.39	ppb	12.31	550	
238 U	209	1	0.01	0.01	ppb	13.90	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	712092	1.54	775171	91.9	60 - 120	
89 Y	1	2421845	1.28	2551189	94.9	60 - 120	
115 In	1	2653097	0.65	2760750	96.1	60 - 120	
209 Bi	1	3429442	1.95	3514494	97.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\096SMPL.D\096SMPL.D#
Date Acquired: Dec 23 2009 05:28 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-6-i
Misc Info:
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	35.74	35.74	ppb	0.71	550	
9 Be	45	1	1.06	1.06	ppb	11.89	10000	
11 B	45	1	12.55	12.55	ppb	7.80	550	
23 Na	45	1	2,099.00	2099.00	ppb	1.59	300000	
24 Mg	45	1	8,444.00	8444.00	ppb	1.35	125000	
27 Al	45	1	20,670.00	20670.00	ppb	1.71	62500	
29 Si	45	1	351.30	351.30	ppb	7.25	12500	
34 S	45	1	2,129.00	2129.00	ppb	7.03	21000	
39 K	45	1	3,636.00	3636.00	ppb	2.52	125000	
44 Ca	45	1	3,521.00	3521.00	ppb	1.80	125000	
47 Ti	45	1	640.20	640.20	ppb	1.81	12500	
51 V	45	1	48.62	48.62	ppb	2.10	12500	
53 Cr	45	1	48.10	48.10	ppb	1.47	12500	
55 Mn	45	1	1,087.00	1087.00	ppb	2.15	12500	
57 Fe	45	1	34,350.00	34350.00	ppb	1.46	65000	
59 Co	89	1	10.89	10.89	ppb	0.47	12500	
60 Ni	89	1	24.83	24.83	ppb	1.04	2500	
63 Cu	89	1	9.51	9.51	ppb	0.36	2500	
66 Zn	89	1	68.48	68.48	ppb	1.01	2500	
75 As	89	1	7.60	7.60	ppb	2.89	12500	
78 Se	89	1	2.04	2.04	ppb	32.84	10000	
90 Zr	89	1	14.70	14.70	ppb	1.10	550	
95 Mo	89	1	0.53	0.53	ppb	7.89	12500	
107 Ag	115	1	0.05	0.05	ppb	14.35	1000	
111 Cd	115	1	0.10	0.10	ppb	4.71	10000	
118 Sn	115	1	1.53	1.53	ppb	4.17	2500	
121 Sb	115	1	0.13	0.13	ppb	9.13	2500	
137 Ba	115	1	61.41	61.41	ppb	0.18	10000	
205 Tl	209	1	-0.12	-0.12	ppb	7.37	12500	
207 Pb	209	1	11.36	11.36	ppb	2.03	12500	
232 Th	209	1	7.28	7.28	ppb	2.48	550	
238 U	209	1	1.74	1.74	ppb	0.59	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	772897	2.62	775171	99.7	60 - 120	
89 Y	1	2699794	0.98	2551189	105.8	60 - 120	
115 In	1	2664460	0.19	2760750	96.5	60 - 120	
209 Bi	1	3387512	2.06	3514494	96.4	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\097SMPL.D\097SMPL.D#
Date Acquired: Dec 23 2009 05:32 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-6-j du
Misc Info:
Vial Number: 3502
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	23.92	23.92	ppb	4.64	550	
9 Be	45	1	0.50	0.50	ppb	10.76	10000	
11 B	45	1	8.32	8.32	ppb	11.67	550	
23 Na	45	1	1,399.00	1399.00	ppb	2.00	300000	
24 Mg	45	1	5,577.00	5577.00	ppb	1.47	125000	
27 Al	45	1	13,600.00	13600.00	ppb	1.48	62500	
29 Si	45	1	416.20	416.20	ppb	8.61	12500	
34 S	45	1	1,613.00	1613.00	ppb	3.94	21000	
39 K	45	1	2,456.00	2456.00	ppb	0.86	125000	
44 Ca	45	1	2,252.00	2252.00	ppb	0.99	125000	
47 Ti	45	1	491.90	491.90	ppb	0.95	12500	
51 V	45	1	33.16	33.16	ppb	0.82	12500	
53 Cr	45	1	32.30	32.30	ppb	1.18	12500	
55 Mn	45	1	547.30	547.30	ppb	0.79	12500	
57 Fe	45	1	21,290.00	21290.00	ppb	1.43	65000	
59 Co	89	1	7.45	7.45	ppb	1.10	12500	
60 Ni	89	1	17.00	17.00	ppb	0.76	2500	
63 Cu	89	1	6.70	6.70	ppb	0.43	2500	
66 Zn	89	1	46.28	46.28	ppb	1.39	2500	
75 As	89	1	5.28	5.28	ppb	1.61	12500	
78 Se	89	1	1.60	1.60	ppb	15.93	10000	
90 Zr	89	1	10.24	10.24	ppb	0.24	550	
95 Mo	89	1	0.30	0.30	ppb	0.96	12500	
107 Ag	115	1	0.03	0.03	ppb	5.30	1000	
111 Cd	115	1	0.07	0.07	ppb	20.94	10000	
118 Sn	115	1	0.92	0.92	ppb	5.74	2500	
121 Sb	115	1	0.00	0.00	ppb	282.80	2500	
137 Ba	115	1	39.14	39.14	ppb	0.82	10000	
205 Tl	209	1	-0.17	-0.17	ppb	0.89	12500	
207 Pb	209	1	7.48	7.48	ppb	0.87	12500	
232 Th	209	1	4.97	4.97	ppb	0.76	550	
238 U	209	1	1.17	1.17	ppb	1.49	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	754044	0.62	775171	97.3	60 - 120	
89 Y	1	2613773	0.90	2551189	102.5	60 - 120	
115 In	1	2652378	0.57	2760750	96.1	60 - 120	
209 Bi	1	3437228	1.46	3514494	97.8	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\098SMPL.D\098SMPL.D#
Date Acquired: Dec 23 2009 05:36 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-6-k ms
Misc Info:
Vial Number: 3503
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	27.78	27.78	ppb	3.35	550	
9 Be	45	1	6.05	6.05	ppb	5.26	10000	
11 B	45	1	58.57	58.57	ppb	3.38	550	
23 Na	45	1	1,903.00	1903.00	ppb	0.66	300000	
24 Mg	45	1	6,647.00	6647.00	ppb	1.64	125000	
27 Al	45	1	16,430.00	16430.00	ppb	0.01	62500	
29 Si	45	1	372.00	372.00	ppb	2.05	12500	
34 S	45	1	1,755.00	1755.00	ppb	4.62	21000	
39 K	45	1	4,197.00	4197.00	ppb	0.35	125000	
44 Ca	45	1	2,912.00	2912.00	ppb	0.83	125000	
47 Ti	45	1	611.10	611.10	ppb	1.00	12500	
51 V	45	1	53.45	53.45	ppb	0.63	12500	
53 Cr	45	1	51.62	51.62	ppb	1.42	12500	
55 Mn	45	1	650.20	650.20	ppb	0.49	12500	
57 Fe	45	1	23,960.00	23960.00	ppb	0.38	65000	
59 Co	89	1	24.02	24.02	ppb	1.66	12500	
60 Ni	89	1	34.39	34.39	ppb	1.00	2500	
63 Cu	89	1	22.42	22.42	ppb	0.76	2500	
66 Zn	89	1	67.42	67.42	ppb	0.55	2500	
75 As	89	1	55.84	55.84	ppb	2.21	12500	
78 Se	89	1	25.18	25.18	ppb	1.18	10000	
90 Zr	89	1	55.49	55.49	ppb	0.77	550	
95 Mo	89	1	47.84	47.84	ppb	0.74	12500	
107 Ag	115	1	16.49	16.49	ppb	0.62	1000	
111 Cd	115	1	15.57	15.57	ppb	0.47	10000	
118 Sn	115	1	50.41	50.41	ppb	0.43	2500	
121 Sb	115	1	15.75	15.75	ppb	1.56	2500	
137 Ba	115	1	61.43	61.43	ppb	1.02	10000	
205 Tl	209	1	48.08	48.08	ppb	1.87	12500	
207 Pb	209	1	60.38	60.38	ppb	1.56	12500	
232 Th	209	1	5.65	5.65	ppb	2.03	550	
238 U	209	1	1.29	1.29	ppb	2.42	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	753462	0.77	775171	97.2	60 - 120	
89 Y	1	2591806	1.36	2551189	101.6	60 - 120	
115 In	1	2611475	0.24	2760750	94.6	60 - 120	
209 Bi	1	3412553	2.49	3514494	97.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\099SMPL.D\099SMPL.D#
Date Acquired: Dec 23 2009 05:39 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-6-l msd
Misc Info:
Vial Number: 3504
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	30.83	30.83	ppb	0.15	550	
9 Be	45	1	6.05	6.05	ppb	8.87	10000	
11 B	45	1	62.33	62.33	ppb	0.76	550	
23 Na	45	1	2,076.00	2076.00	ppb	0.47	300000	
24 Mg	45	1	7,282.00	7282.00	ppb	0.62	125000	
27 Al	45	1	17,870.00	17870.00	ppb	0.37	62500	
29 Si	45	1	486.00	486.00	ppb	0.51	12500	
34 S	45	1	2,013.00	2013.00	ppb	2.43	21000	
39 K	45	1	4,423.00	4423.00	ppb	0.85	125000	
44 Ca	45	1	4,085.00	4085.00	ppb	1.09	125000	
47 Ti	45	1	660.40	660.40	ppb	1.10	12500	
51 V	45	1	56.55	56.55	ppb	0.91	12500	
53 Cr	45	1	55.49	55.49	ppb	0.54	12500	
55 Mn	45	1	773.60	773.60	ppb	0.32	12500	
57 Fe	45	1	26,820.00	26820.00	ppb	0.67	65000	
59 Co	89	1	24.70	24.70	ppb	0.38	12500	
60 Ni	89	1	35.58	35.58	ppb	0.38	2500	
63 Cu	89	1	23.70	23.70	ppb	0.71	2500	
66 Zn	89	1	71.70	71.70	ppb	0.64	2500	
75 As	89	1	55.90	55.90	ppb	0.97	12500	
78 Se	89	1	25.51	25.51	ppb	4.94	10000	
90 Zr	89	1	58.01	58.01	ppb	0.18	550	
95 Mo	89	1	47.56	47.56	ppb	0.31	12500	
107 Ag	115	1	16.47	16.47	ppb	0.83	1000	
111 Cd	115	1	15.60	15.60	ppb	2.56	10000	
118 Sn	115	1	51.12	51.12	ppb	0.65	2500	
121 Sb	115	1	15.48	15.48	ppb	0.87	2500	
137 Ba	115	1	64.48	64.48	ppb	0.46	10000	
205 Tl	209	1	48.64	48.64	ppb	0.10	12500	
207 Pb	209	1	61.75	61.75	ppb	0.87	12500	
232 Th	209	1	6.17	6.17	ppb	0.62	550	
238 U	209	1	1.48	1.48	ppb	1.87	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	752538	1.14	775171	97.1	60 - 120	
89 Y	1	2631303	0.55	2551189	103.1	60 - 120	
115 In	1	2631591	0.37	2760750	95.3	60 - 120	
209 Bi	1	3391999	1.78	3514494	96.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\100SMPL.D\100SMPL.D#
Date Acquired: Dec 23 2009 05:43 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-6-i pds
Misc Info:
Vial Number: 3505
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	40.18	40.18	ppb	2.59	550	
9 Be	45	1	5.54	5.54	ppb	6.31	10000	
11 B	45	1	18.07	18.07	ppb	4.52	550	
23 Na	45	1	2,139.00	2139.00	ppb	0.67	300000	
24 Mg	45	1	8,529.00	8529.00	ppb	0.96	125000	
27 Al	45	1	20,880.00	20880.00	ppb	1.23	62500	
29 Si	45	1	362.60	362.60	ppb	2.52	12500	
34 S	45	1	2,383.00	2383.00	ppb	6.92	21000	
39 K	45	1	3,727.00	3727.00	ppb	0.99	125000	
44 Ca	45	1	3,553.00	3553.00	ppb	0.55	125000	
47 Ti	45	1	646.60	646.60	ppb	1.04	12500	
51 V	45	1	53.59	53.59	ppb	0.67	12500	
53 Cr	45	1	53.00	53.00	ppb	1.91	12500	
55 Mn	45	1	1,092.00	1092.00	ppb	0.70	12500	
57 Fe	45	1	34,390.00	34390.00	ppb	0.83	65000	
59 Co	89	1	15.42	15.42	ppb	1.51	12500	
60 Ni	89	1	29.19	29.19	ppb	0.95	2500	
63 Cu	89	1	14.07	14.07	ppb	1.33	2500	
66 Zn	89	1	72.67	72.67	ppb	0.62	2500	
75 As	89	1	12.07	12.07	ppb	2.35	12500	
78 Se	89	1	6.39	6.39	ppb	12.42	10000	
90 Zr	89	1	20.75	20.75	ppb	1.22	550	
95 Mo	89	1	5.05	5.05	ppb	1.93	12500	
107 Ag	115	1	5.06	5.06	ppb	1.77	1000	
111 Cd	115	1	4.79	4.79	ppb	1.42	10000	
118 Sn	115	1	6.39	6.39	ppb	0.62	2500	
121 Sb	115	1	10.06	10.06	ppb	1.94	2500	
137 Ba	115	1	66.09	66.09	ppb	1.23	10000	
205 Tl	209	1	4.96	4.96	ppb	0.84	12500	
207 Pb	209	1	16.03	16.03	ppb	0.77	12500	
232 Th	209	1	12.01	12.01	ppb	0.41	550	
238 U	209	1	6.39	6.39	ppb	0.51	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	755905	0.98	775171	97.5	60 - 120	
89 Y	1	2659779	0.64	2551189	104.3	60 - 120	
115 In	1	2634246	1.58	2760750	95.4	60 - 120	
209 Bi	1	3378402	0.36	3514494	96.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\101SMPL.D\101SMPL.D#
Date Acquired: Dec 23 2009 05:46 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-6-i sd@5
Misc Info:
Vial Number: 3506
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	7.30	7.30	ppb	1.92	550	
9 Be	45	1	0.22	0.22	ppb	20.73	10000	
11 B	45	1	-1.01	-1.01	ppb	142.14	550	
23 Na	45	1	449.20	449.20	ppb	1.12	300000	
24 Mg	45	1	1,836.00	1836.00	ppb	0.95	125000	
27 Al	45	1	4,424.00	4424.00	ppb	1.44	62500	
29 Si	45	1	82.25	82.25	ppb	23.61	12500	
34 S	45	1	580.80	580.80	ppb	26.14	21000	
39 K	45	1	790.20	790.20	ppb	1.92	125000	
44 Ca	45	1	731.80	731.80	ppb	2.26	125000	
47 Ti	45	1	132.90	132.90	ppb	1.27	12500	
51 V	45	1	10.25	10.25	ppb	2.52	12500	
53 Cr	45	1	10.27	10.27	ppb	2.53	12500	
55 Mn	45	1	235.70	235.70	ppb	1.64	12500	
57 Fe	45	1	7,485.00	7485.00	ppb	1.13	65000	
59 Co	89	1	2.32	2.32	ppb	1.29	12500	
60 Ni	89	1	5.37	5.37	ppb	1.29	2500	
63 Cu	89	1	2.04	2.04	ppb	1.65	2500	
66 Zn	89	1	15.65	15.65	ppb	1.06	2500	
75 As	89	1	1.58	1.58	ppb	3.59	12500	
78 Se	89	1	0.59	0.59	ppb	22.22	10000	
90 Zr	89	1	2.33	2.33	ppb	2.45	550	
95 Mo	89	1	0.17	0.17	ppb	16.37	12500	
107 Ag	115	1	0.00	0.00	ppb	165.83	1000	
111 Cd	115	1	0.02	0.02	ppb	57.23	10000	
118 Sn	115	1	0.29	0.29	ppb	16.23	2500	
121 Sb	115	1	-0.07	-0.07	ppb	10.38	2500	
137 Ba	115	1	12.21	12.21	ppb	1.83	10000	
205 Tl	209	1	-0.12	-0.12	ppb	11.62	12500	
207 Pb	209	1	2.35	2.35	ppb	5.54	12500	
232 Th	209	1	1.22	1.22	ppb	0.44	550	
238 U	209	1	0.34	0.34	ppb	1.92	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	730589	1.29	775171	94.2	60 - 120	
89 Y	1	2512521	0.60	2551189	98.5	60 - 120	
115 In	1	2679056	0.46	2760750	97.0	60 - 120	
209 Bi	1	3369258	2.87	3514494	95.9	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\102SMPL.D\102SMPL.D#
Date Acquired: Dec 23 2009 05:50 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-7-c
Misc Info:
Vial Number: 3507
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	20.62	20.62	ppb	1.76	550	
9 Be	45	1	0.55	0.55	ppb	27.27	10000	
11 B	45	1	6.53	6.53	ppb	26.30	550	
23 Na	45	1	1,274.00	1274.00	ppb	1.37	300000	
24 Mg	45	1	4,978.00	4978.00	ppb	0.85	125000	
27 Al	45	1	12,250.00	12250.00	ppb	0.62	62500	
29 Si	45	1	309.00	309.00	ppb	4.93	12500	
34 S	45	1	1,539.00	1539.00	ppb	5.39	21000	
39 K	45	1	2,203.00	2203.00	ppb	2.29	125000	
44 Ca	45	1	1,875.00	1875.00	ppb	1.19	125000	
47 Ti	45	1	421.30	421.30	ppb	1.55	12500	
51 V	45	1	29.38	29.38	ppb	1.14	12500	
53 Cr	45	1	28.97	28.97	ppb	0.88	12500	
55 Mn	45	1	457.00	457.00	ppb	0.90	12500	
57 Fe	45	1	18,580.00	18580.00	ppb	0.88	65000	
59 Co	89	1	6.54	6.54	ppb	0.85	12500	
60 Ni	89	1	15.14	15.14	ppb	1.73	2500	
63 Cu	89	1	5.88	5.88	ppb	0.64	2500	
66 Zn	89	1	41.38	41.38	ppb	0.95	2500	
75 As	89	1	5.34	5.34	ppb	3.15	12500	
78 Se	89	1	1.66	1.66	ppb	29.03	10000	
90 Zr	89	1	9.12	9.12	ppb	0.39	550	
95 Mo	89	1	0.24	0.24	ppb	1.65	12500	
107 Ag	115	1	0.02	0.02	ppb	19.18	1000	
111 Cd	115	1	0.07	0.07	ppb	11.80	10000	
118 Sn	115	1	0.59	0.59	ppb	13.35	2500	
121 Sb	115	1	-0.07	-0.07	ppb	21.74	2500	
137 Ba	115	1	33.86	33.86	ppb	1.27	10000	
205 Tl	209	1	-0.13	-0.13	ppb	4.08	12500	
207 Pb	209	1	6.57	6.57	ppb	1.63	12500	
232 Th	209	1	4.16	4.16	ppb	1.59	550	
238 U	209	1	1.09	1.09	ppb	1.91	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	747009	1.14	775171	96.4	60 - 120	
89 Y	1	2635024	0.92	2551189	103.3	60 - 120	
115 In	1	2672083	0.44	2760750	96.8	60 - 120	
209 Bi	1	3479543	1.13	3514494	99.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\103SMPL.D\103SMPL.D#
Date Acquired: Dec 23 2009 05:53 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-8-c
Misc Info:
Vial Number: 3508
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	8.67	8.67	ppb	2.32	550	
9 Be	45	1	0.71	0.71	ppb	9.63	10000	
11 B	45	1	0.15	0.15	ppb	299.02	550	
23 Na	45	1	170.60	170.60	ppb	2.15	300000	
24 Mg	45	1	5,343.00	5343.00	ppb	1.44	125000	
27 Al	45	1	7,447.00	7447.00	ppb	1.61	62500	
29 Si	45	1	1,955.00	1955.00	ppb	2.85	12500	
34 S	45	1	1,221.00	1221.00	ppb	4.00	21000	
39 K	45	1	1,056.00	1056.00	ppb	1.95	125000	
44 Ca	45	1	15,940.00	15940.00	ppb	2.69	125000	
47 Ti	45	1	250.70	250.70	ppb	2.49	12500	
51 V	45	1	14.26	14.26	ppb	1.90	12500	
53 Cr	45	1	16.19	16.19	ppb	2.79	12500	
55 Mn	45	1	262.00	262.00	ppb	2.40	12500	
57 Fe	45	1	8,435.00	8435.00	ppb	1.57	65000	
59 Co	89	1	2.94	2.94	ppb	1.39	12500	
60 Ni	89	1	6.72	6.72	ppb	0.41	2500	
63 Cu	89	1	8.28	8.28	ppb	0.91	2500	
66 Zn	89	1	42.94	42.94	ppb	0.95	2500	
75 As	89	1	4.27	4.27	ppb	4.00	12500	
78 Se	89	1	1.05	1.05	ppb	38.87	10000	
90 Zr	89	1	7.76	7.76	ppb	1.02	550	
95 Mo	89	1	0.58	0.58	ppb	5.08	12500	
107 Ag	115	1	0.04	0.04	ppb	18.22	1000	
111 Cd	115	1	0.09	0.09	ppb	26.94	10000	
118 Sn	115	1	0.88	0.88	ppb	3.41	2500	
121 Sb	115	1	-0.01	-0.01	ppb	169.74	2500	
137 Ba	115	1	45.63	45.63	ppb	1.04	10000	
205 Tl	209	1	-0.21	-0.21	ppb	7.09	12500	
207 Pb	209	1	10.16	10.16	ppb	0.60	12500	
232 Th	209	1	1.79	1.79	ppb	1.16	550	
238 U	209	1	0.63	0.63	ppb	2.85	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	722204	1.91	775171	93.2	60 - 120	
89 Y	1	2513982	0.89	2551189	98.5	60 - 120	
115 In	1	2632251	0.79	2760750	95.3	60 - 120	
209 Bi	1	3460480	1.01	3514494	98.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\104SMPL.D\104SMPL.D#
Date Acquired: Dec 23 2009 05:57 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11060-a-20-c
Misc Info:
Vial Number: 3509
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	20.69	20.69	ppb	4.40	550	
9 Be	45	1	0.72	0.72	ppb	7.99	10000	
11 B	45	1	4.44	4.44	ppb	26.04	550	
23 Na	45	1	1,368.00	1368.00	ppb	1.11	300000	
24 Mg	45	1	4,241.00	4241.00	ppb	0.48	125000	
27 Al	45	1	12,270.00	12270.00	ppb	0.46	62500	
29 Si	45	1	741.20	741.20	ppb	2.20	12500	
34 S	45	1	1,959.00	1959.00	ppb	1.94	21000	
39 K	45	1	1,858.00	1858.00	ppb	0.71	125000	
44 Ca	45	1	1,871.00	1871.00	ppb	0.38	125000	
47 Ti	45	1	367.20	367.20	ppb	0.42	12500	
51 V	45	1	27.97	27.97	ppb	0.18	12500	
53 Cr	45	1	56.60	56.60	ppb	0.45	12500	
55 Mn	45	1	611.00	611.00	ppb	0.22	12500	
57 Fe	45	1	19,040.00	19040.00	ppb	0.82	65000	
59 Co	89	1	11.81	11.81	ppb	0.85	12500	
60 Ni	89	1	18.73	18.73	ppb	1.22	2500	
63 Cu	89	1	30.87	30.87	ppb	0.91	2500	
66 Zn	89	1	235.40	235.40	ppb	0.71	2500	
75 As	89	1	26.83	26.83	ppb	1.57	12500	
78 Se	89	1	2.08	2.08	ppb	13.13	10000	
90 Zr	89	1	7.75	7.75	ppb	1.33	550	
95 Mo	89	1	0.40	0.40	ppb	7.40	12500	
107 Ag	115	1	0.17	0.17	ppb	1.18	1000	
111 Cd	115	1	0.56	0.56	ppb	6.13	10000	
118 Sn	115	1	5.16	5.16	ppb	1.57	2500	
121 Sb	115	1	0.16	0.16	ppb	26.19	2500	
137 Ba	115	1	55.88	55.88	ppb	0.91	10000	
205 Tl	209	1	-0.03	-0.03	ppb	58.40	12500	
207 Pb	209	1	51.82	51.82	ppb	1.32	12500	
232 Th	209	1	4.18	4.18	ppb	0.51	550	
238 U	209	1	1.13	1.13	ppb	1.02	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	734956	0.72	775171	94.8	60 - 120	
89 Y	1	2587501	0.40	2551189	101.4	60 - 120	
115 In	1	2618584	0.73	2760750	94.9	60 - 120	
209 Bi	1	3453463	1.61	3514494	98.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\105SMPL.D\105SMPL.D#
Date Acquired: Dec 23 2009 06:00 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11141-b-1-a
Misc Info:
Vial Number: 3510
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	11.15	11.15	ppb	5.69	550	
9 Be	45	1	0.27	0.27	ppb	19.73	10000	
11 B	45	1	-3.30	-3.30	ppb	19.75	550	
23 Na	45	1	104.80	104.80	ppb	1.97	300000	
24 Mg	45	1	6,490.00	6490.00	ppb	0.42	125000	
27 Al	45	1	6,216.00	6216.00	ppb	0.22	62500	
29 Si	45	1	1,045.00	1045.00	ppb	4.57	12500	
34 S	45	1	531.30	531.30	ppb	21.42	21000	
39 K	45	1	1,400.00	1400.00	ppb	1.62	125000	
44 Ca	45	1	13,150.00	13150.00	ppb	0.47	125000	
47 Ti	45	1	351.90	351.90	ppb	0.74	12500	
51 V	45	1	19.02	19.02	ppb	1.21	12500	
53 Cr	45	1	12.01	12.01	ppb	1.40	12500	
55 Mn	45	1	266.30	266.30	ppb	0.63	12500	
57 Fe	45	1	12,160.00	12160.00	ppb	0.13	65000	
59 Co	89	1	5.06	5.06	ppb	0.72	12500	
60 Ni	89	1	13.89	13.89	ppb	1.05	2500	
63 Cu	89	1	31.53	31.53	ppb	0.40	2500	
66 Zn	89	1	164.30	164.30	ppb	0.56	2500	
75 As	89	1	3.75	3.75	ppb	2.57	12500	
78 Se	89	1	1.07	1.07	ppb	35.64	10000	
90 Zr	89	1	3.06	3.06	ppb	6.02	550	
95 Mo	89	1	0.29	0.29	ppb	3.87	12500	
107 Ag	115	1	0.16	0.16	ppb	8.02	1000	
111 Cd	115	1	0.26	0.26	ppb	21.86	10000	
118 Sn	115	1	4.12	4.12	ppb	1.64	2500	
121 Sb	115	1	0.33	0.33	ppb	6.74	2500	
137 Ba	115	1	40.98	40.98	ppb	0.85	10000	
205 Tl	209	1	-0.15	-0.15	ppb	2.56	12500	
207 Pb	209	1	55.17	55.17	ppb	0.90	12500	
232 Th	209	1	3.50	3.50	ppb	0.89	550	
238 U	209	1	0.74	0.74	ppb	1.47	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	746648	1.13	775171	96.3	60 - 120	
89 Y	1	2553714	1.14	2551189	100.1	60 - 120	
115 In	1	2644457	1.29	2760750	95.8	60 - 120	
209 Bi	1	3447057	1.13	3514494	98.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\106SMPL.D\106SMPL.D#
Date Acquired: Dec 23 2009 06:04 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 3511
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	80.27	80.27	ppb	0.96	550	
9 Be	45	1	116.60	116.60	ppb	0.97	10000	
11 B	45	1	188.80	188.80	ppb	2.23	550	
23 Na	45	1	2,088.00	2088.00	ppb	0.73	300000	
24 Mg	45	1	2,614.00	2614.00	ppb	0.35	125000	
27 Al	45	1	3,679.00	3679.00	ppb	0.25	62500	
29 Si	45	1	166.40	166.40	ppb	7.49	12500	
34 S	45	1	10,830.00	10830.00	ppb	1.41	21000	
39 K	45	1	4,201.00	4201.00	ppb	0.83	125000	
44 Ca	45	1	2,518.00	2518.00	ppb	0.56	125000	
47 Ti	45	1	199.30	199.30	ppb	2.00	12500	
51 V	45	1	61.33	61.33	ppb	0.79	12500	
53 Cr	45	1	58.37	58.37	ppb	0.58	12500	
55 Mn	45	1	41.47	41.47	ppb	0.95	12500	
57 Fe	45	1	997.50	997.50	ppb	0.68	65000	
59 Co	89	1	62.63	62.63	ppb	0.43	12500	
60 Ni	89	1	60.01	60.01	ppb	0.48	2500	
63 Cu	89	1	61.45	61.45	ppb	0.54	2500	
66 Zn	89	1	60.67	60.67	ppb	0.60	2500	
75 As	89	1	200.70	200.70	ppb	0.41	12500	
78 Se	89	1	95.15	95.15	ppb	2.83	10000	
90 Zr	89	1	162.10	162.10	ppb	1.27	550	
95 Mo	89	1	193.90	193.90	ppb	0.58	12500	
107 Ag	115	1	62.75	62.75	ppb	0.29	1000	
111 Cd	115	1	59.08	59.08	ppb	0.59	10000	
118 Sn	115	1	193.00	193.00	ppb	0.29	2500	
121 Sb	115	1	204.30	204.30	ppb	0.66	2500	
137 Ba	115	1	57.71	57.71	ppb	0.54	10000	
205 Tl	209	1	196.10	196.10	ppb	0.39	12500	
207 Pb	209	1	206.10	206.10	ppb	0.57	12500	
232 Th	209	1	71.94	71.94	ppb	1.79	550	
238 U	209	1	74.73	74.73	ppb	2.47	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	724138	1.10	775171	93.4	60 - 120	
89 Y	1	2458114	0.18	2551189	96.4	60 - 120	
115 In	1	2659350	0.46	2760750	96.3	60 - 120	
209 Bi	1	3362747	1.01	3514494	95.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\107SMPL.D\107SMPL.D#
Date Acquired: Dec 23 2009 06:10 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 3512
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	-0.03	-0.03	ppb	26.40	550	
9 Be	45	1	0.02	0.02	ppb	44.61	10000	
11 B	45	1	-2.30	-2.30	ppb	41.76	550	
23 Na	45	1	0.03	0.03	ppb	1530.40	300000	
24 Mg	45	1	2.82	2.82	ppb	32.84	125000	
27 Al	45	1	5.92	5.92	ppb	34.28	62500	
29 Si	45	1	-9.00	-9.00	ppb	117.67	12500	
34 S	45	1	483.40	483.40	ppb	12.25	21000	
39 K	45	1	9.58	9.58	ppb	22.15	125000	
44 Ca	45	1	3.08	3.08	ppb	28.68	125000	
47 Ti	45	1	0.34	0.34	ppb	19.90	12500	
51 V	45	1	0.03	0.03	ppb	18.21	12500	
53 Cr	45	1	0.03	0.03	ppb	52.36	12500	
55 Mn	45	1	0.29	0.29	ppb	27.01	12500	
57 Fe	45	1	8.62	8.62	ppb	28.96	65000	
59 Co	89	1	0.02	0.02	ppb	13.75	12500	
60 Ni	89	1	-0.03	-0.03	ppb	15.75	2500	
63 Cu	89	1	-0.16	-0.16	ppb	2.15	2500	
66 Zn	89	1	-0.46	-0.46	ppb	7.62	2500	
75 As	89	1	0.06	0.06	ppb	12.96	12500	
78 Se	89	1	0.14	0.14	ppb	185.36	10000	
90 Zr	89	1	-0.04	-0.04	ppb	11.91	550	
95 Mo	89	1	0.37	0.37	ppb	6.27	12500	
107 Ag	115	1	0.01	0.01	ppb	31.13	1000	
111 Cd	115	1	0.00	0.00	ppb	210.49	10000	
118 Sn	115	1	1.05	1.05	ppb	14.24	2500	
121 Sb	115	1	0.43	0.43	ppb	8.60	2500	
137 Ba	115	1	0.02	0.02	ppb	126.81	10000	
205 Tl	209	1	-0.17	-0.17	ppb	2.80	12500	
207 Pb	209	1	0.11	0.11	ppb	30.49	12500	
232 Th	209	1	0.40	0.40	ppb	7.27	550	
238 U	209	1	0.01	0.01	ppb	28.74	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	708212	0.06	775171	91.4	60 - 120	
89 Y	1	2459233	1.16	2551189	96.4	60 - 120	
115 In	1	2660218	1.83	2760750	96.4	60 - 120	
209 Bi	1	3431119	0.69	3514494	97.6	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\108SMPL.D\108SMPL.D#
Date Acquired: Dec 23 2009 06:14 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11141-b-6-a
Misc Info:
Vial Number: 4101
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	11.86	11.86	ppb	0.96	550	
9 Be	45	1	0.37	0.37	ppb	17.54	10000	
11 B	45	1	2.05	2.05	ppb	31.17	550	
23 Na	45	1	186.80	186.80	ppb	0.72	300000	
24 Mg	45	1	7,193.00	7193.00	ppb	0.75	125000	
27 Al	45	1	7,472.00	7472.00	ppb	0.80	62500	
29 Si	45	1	3,676.00	3676.00	ppb	1.39	12500	
34 S	45	1	1,429.00	1429.00	ppb	6.42	21000	
39 K	45	1	1,507.00	1507.00	ppb	1.07	125000	
44 Ca	45	1	32,010.00	32010.00	ppb	0.96	125000	
47 Ti	45	1	441.20	441.20	ppb	1.26	12500	
51 V	45	1	21.36	21.36	ppb	1.23	12500	
53 Cr	45	1	14.45	14.45	ppb	0.95	12500	
55 Mn	45	1	255.30	255.30	ppb	0.75	12500	
57 Fe	45	1	13,750.00	13750.00	ppb	0.62	65000	
59 Co	89	1	5.34	5.34	ppb	1.45	12500	
60 Ni	89	1	14.69	14.69	ppb	0.31	2500	
63 Cu	89	1	35.35	35.35	ppb	0.30	2500	
66 Zn	89	1	74.04	74.04	ppb	1.06	2500	
75 As	89	1	4.66	4.66	ppb	3.03	12500	
78 Se	89	1	0.85	0.85	ppb	13.29	10000	
90 Zr	89	1	7.23	7.23	ppb	1.14	550	
95 Mo	89	1	0.54	0.54	ppb	0.45	12500	
107 Ag	115	1	0.17	0.17	ppb	6.40	1000	
111 Cd	115	1	0.32	0.32	ppb	14.49	10000	
118 Sn	115	1	3.50	3.50	ppb	2.12	2500	
121 Sb	115	1	0.38	0.38	ppb	3.49	2500	
137 Ba	115	1	46.20	46.20	ppb	0.72	10000	
205 Tl	209	1	-0.17	-0.17	ppb	8.95	12500	
207 Pb	209	1	69.42	69.42	ppb	0.65	12500	
232 Th	209	1	2.42	2.42	ppb	3.12	550	
238 U	209	1	0.69	0.69	ppb	0.86	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	730804	1.36	775171	94.3	60 - 120	
89 Y	1	2533597	0.58	2551189	99.3	60 - 120	
115 In	1	2634279	0.58	2760750	95.4	60 - 120	
209 Bi	1	3425335	0.64	3514494	97.5	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\109SMPL.D\109SMPL.D#
Date Acquired: Dec 23 2009 06:17 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11141-b-11-a
Misc Info:
Vial Number: 4102
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	9.27	9.27	ppb	3.28	550	
9 Be	45	1	0.53	0.53	ppb	9.60	10000	
11 B	45	1	-3.28	-3.28	ppb	36.13	550	
23 Na	45	1	41.59	41.59	ppb	2.31	300000	
24 Mg	45	1	2,176.00	2176.00	ppb	1.60	125000	
27 Al	45	1	7,544.00	7544.00	ppb	1.95	62500	
29 Si	45	1	638.10	638.10	ppb	0.86	12500	
34 S	45	1	468.40	468.40	ppb	26.94	21000	
39 K	45	1	1,043.00	1043.00	ppb	1.04	125000	
44 Ca	45	1	490.30	490.30	ppb	0.61	125000	
47 Ti	45	1	328.60	328.60	ppb	2.01	12500	
51 V	45	1	26.32	26.32	ppb	1.62	12500	
53 Cr	45	1	14.47	14.47	ppb	1.32	12500	
55 Mn	45	1	687.30	687.30	ppb	0.73	12500	
57 Fe	45	1	15,120.00	15120.00	ppb	1.09	65000	
59 Co	89	1	9.34	9.34	ppb	0.45	12500	
60 Ni	89	1	18.05	18.05	ppb	0.53	2500	
63 Cu	89	1	46.48	46.48	ppb	0.48	2500	
66 Zn	89	1	79.85	79.85	ppb	0.34	2500	
75 As	89	1	3.49	3.49	ppb	3.86	12500	
78 Se	89	1	1.19	1.19	ppb	31.60	10000	
90 Zr	89	1	3.72	3.72	ppb	1.45	550	
95 Mo	89	1	0.60	0.60	ppb	6.46	12500	
107 Ag	115	1	0.13	0.13	ppb	4.83	1000	
111 Cd	115	1	0.66	0.66	ppb	9.34	10000	
118 Sn	115	1	4.89	4.89	ppb	2.38	2500	
121 Sb	115	1	0.80	0.80	ppb	2.57	2500	
137 Ba	115	1	40.49	40.49	ppb	1.02	10000	
205 Tl	209	1	-0.13	-0.13	ppb	5.51	12500	
207 Pb	209	1	55.77	55.77	ppb	0.67	12500	
232 Th	209	1	3.12	3.12	ppb	1.34	550	
238 U	209	1	0.90	0.90	ppb	1.31	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	766633	1.68	775171	98.9	60 - 120	
89 Y	1	2623084	0.27	2551189	102.8	60 - 120	
115 In	1	2681810	0.66	2760750	97.1	60 - 120	
209 Bi	1	3525478	1.10	3514494	100.3	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\110SMPL.D\110SMPL.D#
Date Acquired: Dec 23 2009 06:21 pm
Acq. Method: STL5.M
Operator:
Sample Name: 220-11141-b-16-a
Misc Info:
Vial Number: 4103
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	13.91	13.91	ppb	3.99	550	
9 Be	45	1	0.52	0.52	ppb	8.84	10000	
11 B	45	1	3.75	3.75	ppb	13.76	550	
23 Na	45	1	208.20	208.20	ppb	1.32	300000	
24 Mg	45	1	10,890.00	10890.00	ppb	0.34	125000	
27 Al	45	1	9,171.00	9171.00	ppb	1.39	62500	
29 Si	45	1	2,287.00	2287.00	ppb	2.31	12500	
34 S	45	1	1,838.00	1838.00	ppb	7.79	21000	
39 K	45	1	1,599.00	1599.00	ppb	1.81	125000	
44 Ca	45	1	45,110.00	45110.00	ppb	1.34	125000	
47 Ti	45	1	512.90	512.90	ppb	0.89	12500	
51 V	45	1	28.86	28.86	ppb	1.19	12500	
53 Cr	45	1	19.87	19.87	ppb	1.07	12500	
55 Mn	45	1	278.90	278.90	ppb	1.76	12500	
57 Fe	45	1	12,790.00	12790.00	ppb	1.11	65000	
59 Co	89	1	5.24	5.24	ppb	0.27	12500	
60 Ni	89	1	15.73	15.73	ppb	1.07	2500	
63 Cu	89	1	30.47	30.47	ppb	0.47	2500	
66 Zn	89	1	101.20	101.20	ppb	0.39	2500	
75 As	89	1	5.29	5.29	ppb	1.66	12500	
78 Se	89	1	0.95	0.95	ppb	21.94	10000	
90 Zr	89	1	9.12	9.12	ppb	0.51	550	
95 Mo	89	1	0.72	0.72	ppb	2.64	12500	
107 Ag	115	1	0.18	0.18	ppb	4.99	1000	
111 Cd	115	1	0.39	0.39	ppb	8.10	10000	
118 Sn	115	1	4.54	4.54	ppb	2.67	2500	
121 Sb	115	1	0.34	0.34	ppb	4.40	2500	
137 Ba	115	1	63.73	63.73	ppb	0.94	10000	
205 Tl	209	1	-0.17	-0.17	ppb	4.72	12500	
207 Pb	209	1	103.70	103.70	ppb	0.96	12500	
232 Th	209	1	3.11	3.11	ppb	0.71	550	
238 U	209	1	0.97	0.97	ppb	0.24	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	750424	1.92	775171	96.8	60 - 120	
89 Y	1	2604966	0.63	2551189	102.1	60 - 120	
115 In	1	2654303	0.26	2760750	96.1	60 - 120	
209 Bi	1	3411154	0.57	3514494	97.1	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\111SMPL.D\111SMPL.D#
Date Acquired: Dec 23 2009 06:24 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 4104
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	80.99	80.99	ppb	1.49	550	
9 Be	45	1	118.00	118.00	ppb	2.03	10000	
11 B	45	1	186.90	186.90	ppb	2.37	550	
23 Na	45	1	2,080.00	2080.00	ppb	1.05	300000	
24 Mg	45	1	2,600.00	2600.00	ppb	1.15	125000	
27 Al	45	1	3,651.00	3651.00	ppb	1.29	62500	
29 Si	45	1	152.40	152.40	ppb	7.02	12500	
34 S	45	1	10,860.00	10860.00	ppb	3.48	21000	
39 K	45	1	4,185.00	4185.00	ppb	1.17	125000	
44 Ca	45	1	2,532.00	2532.00	ppb	0.41	125000	
47 Ti	45	1	194.80	194.80	ppb	0.74	12500	
51 V	45	1	61.27	61.27	ppb	0.67	12500	
53 Cr	45	1	58.00	58.00	ppb	1.31	12500	
55 Mn	45	1	41.25	41.25	ppb	0.81	12500	
57 Fe	45	1	987.30	987.30	ppb	0.98	65000	
59 Co	89	1	63.53	63.53	ppb	0.90	12500	
60 Ni	89	1	60.40	60.40	ppb	0.97	2500	
63 Cu	89	1	62.07	62.07	ppb	0.95	2500	
66 Zn	89	1	60.87	60.87	ppb	0.75	2500	
75 As	89	1	200.60	200.60	ppb	1.53	12500	
78 Se	89	1	95.82	95.82	ppb	3.35	10000	
90 Zr	89	1	165.40	165.40	ppb	0.81	550	
95 Mo	89	1	196.20	196.20	ppb	2.54	12500	
107 Ag	115	1	63.20	63.20	ppb	0.38	1000	
111 Cd	115	1	59.40	59.40	ppb	1.46	10000	
118 Sn	115	1	191.80	191.80	ppb	0.48	2500	
121 Sb	115	1	202.80	202.80	ppb	1.02	2500	
137 Ba	115	1	57.40	57.40	ppb	0.53	10000	
205 Tl	209	1	191.80	191.80	ppb	0.70	12500	
207 Pb	209	1	204.70	204.70	ppb	0.72	12500	
232 Th	209	1	71.90	71.90	ppb	0.77	550	
238 U	209	1	73.78	73.78	ppb	0.96	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	748949	1.16	775171	96.6	60 - 120	
89 Y	1	2493507	1.07	2551189	97.7	60 - 120	
115 In	1	2669360	0.25	2760750	96.7	60 - 120	
209 Bi	1	3363482	0.68	3514494	95.7	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09L23100.B\112SMPL.D\112SMPL.D#
Date Acquired: Dec 23 2009 06:30 pm
Acq. Method: STL5.M
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4105
Current Method: C:\ICPCHEM\1\METHODS\STL5.M
Calibration File: C:\ICPCHEM\1\CALIB\STL5.C
Last Cal. Update: Dec 23 2009 11:31 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
7 Li	45	1	-0.01	-0.01	ppb	876.61	550	
9 Be	45	1	0.03	0.03	ppb	2.86	10000	
11 B	45	1	-3.03	-3.03	ppb	19.35	550	
23 Na	45	1	0.84	0.84	ppb	95.67	300000	
24 Mg	45	1	4.58	4.58	ppb	53.87	125000	
27 Al	45	1	9.37	9.37	ppb	50.46	62500	
29 Si	45	1	-15.85	-15.85	ppb	42.48	12500	
34 S	45	1	455.90	455.90	ppb	25.16	21000	
39 K	45	1	10.77	10.77	ppb	27.47	125000	
44 Ca	45	1	8.17	8.17	ppb	58.40	125000	
47 Ti	45	1	0.36	0.36	ppb	59.98	12500	
51 V	45	1	0.05	0.05	ppb	32.16	12500	
53 Cr	45	1	0.07	0.07	ppb	38.76	12500	
55 Mn	45	1	0.33	0.33	ppb	59.92	12500	
57 Fe	45	1	11.89	11.89	ppb	59.14	65000	
59 Co	89	1	0.02	0.02	ppb	11.99	12500	
60 Ni	89	1	-0.02	-0.02	ppb	40.71	2500	
63 Cu	89	1	-0.13	-0.13	ppb	16.44	2500	
66 Zn	89	1	-0.40	-0.40	ppb	5.44	2500	
75 As	89	1	0.10	0.10	ppb	11.66	12500	
78 Se	89	1	0.15	0.15	ppb	144.76	10000	
90 Zr	89	1	-0.02	-0.02	ppb	92.07	550	
95 Mo	89	1	0.58	0.58	ppb	14.18	12500	
107 Ag	115	1	0.02	0.02	ppb	36.83	1000	
111 Cd	115	1	0.02	0.02	ppb	38.88	10000	
118 Sn	115	1	1.43	1.43	ppb	12.31	2500	
121 Sb	115	1	0.61	0.61	ppb	4.37	2500	
137 Ba	115	1	0.02	0.02	ppb	174.86	10000	
205 Tl	209	1	-0.16	-0.16	ppb	12.20	12500	
207 Pb	209	1	0.15	0.15	ppb	21.34	12500	
232 Th	209	1	0.48	0.48	ppb	11.20	550	
238 U	209	1	0.02	0.02	ppb	41.42	550	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	726714	1.52	775171	93.7	60 - 120	
89 Y	1	2451532	0.72	2551189	96.1	60 - 120	
115 In	1	2652661	1.42	2760750	96.1	60 - 120	
209 Bi	1	3373262	2.07	3514494	96.0	60 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\09L23100.B\001CALB.D\001CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

TestAmerica

128 Long Hill Cross Roads
Shelton, Connecticut, 06484

METALS QUALITY CONTROL APPROVAL REPORT

Batch Number 34405

	1st Level Review	Comments
Chain of Custody forms have been completed.	JM 12/17/09	
Initial Calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
Continuing calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other		
Correct analytical sequence followed (CRI, ICSA,etc.) and criteria* met.		
All blank criteria* met. ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other		
IDLs, Linear Range and IECs current.		
LSC, MS,MD, MSD (if required) meet acceptance limits*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	✓	
Serial dilution analyzed once per SDG or 20 samples.	N/A →	
Post digestion spike performed as required.	NA →	
Flagging correct.	JM 12/17/09	
All raw data submitted as per deliverable requiements.	✓	
Prep batch completed with proper information.		
All deviations, prep and anlaysis methods noted in NCMs.	✓	

* Reference SOPs for appropriate acceptance criteria.

This data meets the requirements of the Metals SOP's, unless otherwise documented in a NCM.

Date 12/17/09

Authorizing Signature (2nd level Review)

TestAmerica Form #MEF01105.CT

Sample Information File C:\AAUSER\SAMPINFO\121719.SIF

Description : msnclsol_149, mhclsol_129
Batch ID : 7470A
Volume Units : mL
Weight Units :
Analyst : JV
Sample Volume : 0.50

AS Loc	Sample ID	Sample Weight	Sample Units	User Dilution	Remarks
9	ICV				
10	ICB				
11	MB 220-34373/1-A			1.0000	
12	LCS 220-34373/2-A			1.0000	
13	LB 220-34290/1-F			1.0000	
14	220-11019-C-21-I			1.0000	
15	LB 220-34376/1-B			1.0000	
16	220-11061-C-20-B			1.0000	
17	220-10983-C-2-B			1.0000	
18	220-10983-C-3-B			1.0000	
19	220-10983-C-4-B			1.0000	
20	220-10983-C-5-B			1.0000	
21	CCV				
22	CCB				
23	220-10983-C-6-B			1.0000	
24	220-10983-C-7-B			1.0000	
25	220-10983-C-9-B			1.0000	
26	220-10983-C-10-B			1.0000	
27	220-10983-C-11-E			1.0000	
28	220-10983-C-11-F DU			1.0000	
29	220-10983-C-11-G MS			1.0000	
30	220-10983-C-11-H MSD			1.0000	
31	220-10983-C-12-B			1.0000	
32	220-10983-C-13-B			1.0000	
33	CCV				
34	CCB				
35	220-10986-D-1-B			1.0000	
36	220-10989-D-1-A			1.0000	
37	220-10989-D-2-A			1.0000	
38	220-11066-C-14-A			1.0000	
39	220-11066-C-15-A			1.0000	
40	220-11066-C-16-A			1.0000	
41	220-11027-A-1-A			1.0000	
42	1				
43	2				
44	3				
45	CCV				
46	CCB				

Method Name: STLHG1
Method Description: STLHG1
Element: Hg

Date: 12/17/2009
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 121719.SIF Results Data Set Name: CV121719

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 12/17/2009
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0004	0.0016	0.0004	03:59:30	No

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 12/17/2009
Sample ID: Standard 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0031	0.0143	0.0034	04:00:26	No

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.01534
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 12/17/2009
Sample ID: Standard 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0164	0.0666	0.0168	04:01:44	No

[Hg] Standard number 2 applied. [1.000]
Correlation Coefficient: 0.99991 Slope: 0.01648
Intercept : -0.00010

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 12/17/2009
Sample ID: Standard 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0337	0.1336	0.0341	04:03:03	No

[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient: 0.99989 Slope: 0.01690
Intercept : -0.00022

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 12/17/2009
Sample ID: Standard 4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0823	0.3258	0.0827	04:04:23	No

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99993 Slope: 0.01650
Intercept : 0.00004

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 12/17/2009
Sample ID: Standard 5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1609	0.6361	0.1613	04:05:44	No

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99990 Slope: 0.01611
Intercept : 0.00052

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0004	---	----	----	----
Standard 1	0.0031	0.200	0.158	----	----
Standard 2	0.0164	1.000	0.986	----	----
Standard 3	0.0337	2.000	2.061	----	----
Standard 4	0.0823	5.000	5.076	----	----
Standard 5	0.1609	10.000	9.952	----	----
Calib Blank	0.0004	---	----	----	----

Correlation Coefficient: 0.99990 Slope: 0.01611 Intercept: 0.0005

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 12/17/2009
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.217	5.217	0.0846	0.3353	0.0850	04:07:03	No

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 12/17/2009
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	0.0005	0.0040	0.0009	04:08:20	No

Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 12/17/2009
Sample ID: MB 220-34373/1-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.039	-0.039	-0.0001	0.0010	0.0003	04:09:15	No

Element: Hg Seq. No.: 10 AS Loc.: 12 Date: 12/17/2009
Sample ID: LCS 220-34373/2-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.982	4.982	0.0808	0.3172	0.0812	04:10:10	No

Element: Hg Seq. No.: 11 AS Loc.: 13 Date: 12/17/2009
Sample ID: LB 220-34290/1-F

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.010	-0.010	0.0004	0.0020	0.0007	04:11:29	No

Element: Hg Seq. No.: 12 AS Loc.: 14 Date: 12/17/2009
Sample ID: 220-11019-C-21-I

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0001	0.0008	0.0003	04:12:24	No

Element: Hg Seq. No.: 13 AS Loc.: 15 Date: 12/17/2009
Sample ID: LB 220-34376/1-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.042	-0.042	-0.0002	0.0006	0.0002	04:13:19	No

Element: Hg Seq. No.: 14 AS Loc.: 16 Date: 12/17/2009
Sample ID: 220-11061-C-20-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	0.0000	0.0016	0.0004	04:14:14	No

Element: Hg Seq. No.: 15 AS Loc.: 17 Date: 12/17/2009
Sample ID: 220-10983-C-2-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.039	-0.039	-0.0001	0.0021	0.0003	04:15:12	No

Element: Hg Seq. No.: 16 AS Loc.: 18 Date: 12/17/2009
Sample ID: 220-10983-C-3-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.053	-0.053	-0.0003	-0.0030	0.0000	04:16:07	No

Element: Hg Seq. No.: 17 AS Loc.: 19 Date: 12/17/2009
Sample ID: 220-10983-C-4-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.020	-0.020	0.0002	0.0010	0.0006	04:17:02	No

Element: Hg Seq. No.: 18 AS Loc.: 20 Date: 12/17/2009
Sample ID: 220-10983-C-5-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.034	-0.034	0.0000	0.0025	0.0004	04:17:57	No

Element: Hg Seq. No.: 19 AS Loc.: 21 Date: 12/17/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.999	4.999	0.0811	0.3187	0.0815	04:18:52	No

Element: Hg Seq. No.: 20 AS Loc.: 22 Date: 12/17/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.020	-0.020	0.0002	0.0025	0.0006	04:20:09	No

Element: Hg Seq. No.: 21 AS Loc.: 23 Date: 12/17/2009
Sample ID: 220-10983-C-6-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.041	-0.041	-0.0001	0.0011	0.0003	04:21:04	No

Element: Hg Seq. No.: 22 AS Loc.: 24 Date: 12/17/2009
Sample ID: 220-10983-C-7-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.045	-0.045	-0.0002	0.0004	0.0002	04:21:59	No

Element: Hg Seq. No.: 23 AS Loc.: 25 Date: 12/17/2009
Sample ID: 220-10983-C-9-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.041	-0.041	-0.0001	0.0012	0.0003	04:22:54	No

Element: Hg Seq. No.: 24 AS Loc.: 26 Date: 12/17/2009
Sample ID: 220-10983-C-10-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.041	-0.041	-0.0001	0.0009	0.0003	04:23:49	No

Element: Hg Seq. No.: 25 AS Loc.: 27 Date: 12/17/2009
Sample ID: 220-10983-C-11-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.047	-0.047	-0.0002	-0.0007	0.0002	04:24:44	No

Element: Hg Seq. No.: 26 AS Loc.: 28 Date: 12/17/2009
Sample ID: 220-10983-C-11-F DU

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.038	-0.038	-0.0001	0.0012	0.0003	04:25:39	No

Element: Hg Seq. No.: 27 AS Loc.: 29 Date: 12/17/2009
Sample ID: 220-10983-C-11-G MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.955	0.955	0.0159	0.0629	0.0163	04:26:34	No

Element: Hg Seq. No.: 28 AS Loc.: 30 Date: 12/17/2009
Sample ID: 220-10983-C-11-H MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.000	1.000	0.0166	0.0674	0.0170	04:27:55	No

Element: Hg Seq. No.: 29 AS Loc.: 31 Date: 12/17/2009
Sample ID: 220-10983-C-12-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.038	-0.038	-0.0001	0.0009	0.0003	04:29:16	No

Element: Hg Seq. No.: 30 AS Loc.: 32 Date: 12/17/2009
Sample ID: 220-10983-C-13-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0001	0.0001	0.0003	04:30:15	No

Element: Hg Seq. No.: 31 AS Loc.: 33 Date: 12/17/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.050	5.050	0.0819	0.3239	0.0823	04:31:09	No

Element: Hg Seq. No.: 32 AS Loc.: 34 Date: 12/17/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	0.0001	0.0004	0.0005	04:32:24	No

Element: Hg Seq. No.: 33 AS Loc.: 35 Date: 12/17/2009
Sample ID: 220-10986-D-1-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.043	-0.043	-0.0002	0.0005	0.0002	04:33:19	No

Element: Hg Seq. No.: 34 AS Loc.: 36 Date: 12/17/2009
Sample ID: 220-10989-D-1-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0001	0.0006	0.0003	04:34:13	No

Element: Hg Seq. No.: 35 AS Loc.: 37 Date: 12/17/2009
Sample ID: 220-10989-D-2-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.041	-0.041	-0.0001	0.0007	0.0002	04:35:08	No

Element: Hg Seq. No.: 36 AS Loc.: 38 Date: 12/17/2009
Sample ID: 220-11066-C-14-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0001	0.0010	0.0003	04:36:03	No

Element: Hg Seq. No.: 37 AS Loc.: 39 Date: 12/17/2009
Sample ID: 220-11066-C-15-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.048	-0.048	-0.0002	-0.0001	0.0001	04:36:58	No

Element: Hg Seq. No.: 38 AS Loc.: 40 Date: 12/17/2009
Sample ID: 220-11066-C-16-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.042	-0.042	-0.0002	0.0002	0.0002	04:37:53	No

Element: Hg Seq. No.: 39 AS Loc.: 41 Date: 12/17/2009
Sample ID: 220-11027-A-1-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.045	-0.045	-0.0002	0.0004	0.0002	04:38:48	No

Element: Hg Seq. No.: 40 AS Loc.: 42 Date: 12/17/2009
Sample ID: 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

Element: Hg Seq. No.: 40 AS Loc.: 45 Date: 12/17/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.146	5.146	0.0835	0.3261	0.0838	04:40:10	No

Element: Hg Seq. No.: 41 AS Loc.: 46 Date: 12/17/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.017	-0.017	0.0002	0.0019	0.0006	04:41:31	No

TestAmerica

128 Long Hill Cross Roads
Shelton, Connecticut, 06484

METALS QUALITY CONTROL APPROVAL REPORT

Batch Number 34389

	1st Level Review	Comments
Chain of Custody forms have been completed.	JV 12/17/09	
Initial Calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	↓	
Continuing calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	↓	
Correct analytical sequence followed (CRI, ICSA,etc.) and criteria* met.	↓	
All blank criteria* met. ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	↓	
IDLs, Linear Range and IECs current.	↓	
LSC, MS,MD, MSD (if required) meet acceptance limits*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other	↓	
Serial dilution analyzed once per SDG or 20 samples.	NA →	
Post digestion spike performed as required.	NA →	
Flagging correct.	JV 12/17/09	
All raw data submitted as per deliverable requiements.	↓	
Prep batch completed with proper information.	↓	
All deviations, prep and anlaysis methods noted in NCMs.	↓	

* Reference SOPs for appropriate acceptance criteria.

This data meets the requirements of the Metals SOP's, unless otherwise documented in a NCM.

Authorizing Signature (2nd level Review) Date 12/17/09

TestAmerica Form #MEF01105.CT

Sample Information File C:\AAUSER\SAMPINFO\121709.SIF

Description : msnclsol_149, mhclsol_129
Batch ID : 7471A
Volume Units : mL
Weight Units :
Analyst : JV
Sample Volume : 0.50

AS Loc	Sample ID	Sample Weight	Sample Units	User Dilution	Remarks
9	ICV				
10	ICB				
11	MB 220-34334/1-A			1.0000	
12	LCS 220-34334/2-A			1.0000	
13	220-10916-B-2-J			1.0000	
14	220-10916-B-2-K DU			1.0000	
15	220-10916-B-2-L MS			1.0000	
16	220-10916-B-2-M MSD			1.0000	
17	220-10984-A-11-F			1.0000	
18	220-10984-A-16-E			1.0000	
19	220-10984-A-21-E			1.0000	
20	220-10984-A-26-E			1.0000	
21	CCV				
22	CCB				
23	220-10984-A-31-E			1.0000	
24	220-10984-A-36-E			1.0000	
25	220-10984-A-41-E			1.0000	
26	220-10984-A-46-E			1.0000	
27	220-11019-B-21-D			1.0000	
28	220-11066-A-5-A			1.0000	
29	220-11066-A-6-A			1.0000	
30	220-11066-A-7-A			1.0000	
31	220-11066-A-8-A			1.0000	
32	220-11066-A-9-A			1.0000	
33	CCV				
34	CCB				
35	220-11066-A-10-A			1.0000	
36	220-11066-A-11-A			1.0000	
37	220-11066-A-12-A			1.0000	
38	220-11066-A-13-A			1.0000	
39	220-10985-A-1-D			1.0000	
40	+ 220-11066-A-9-A			5x	JV 12/17/09
41	2				
42	3				
43	4				
44	5				
45	CCV				
46	CCB				

Method Name: STLHG1
Method Description: STLHG1
Element: Hg

Date: 12/17/2009
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 121709.SIF Results Data Set Name: CV121709

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 12/17/2009
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0002	0.0000	0.0002	01:39:25	No

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 12/17/2009
Sample ID: Standard 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0010	0.0036	0.0011	01:40:21	No

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.00477
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 12/17/2009
Sample ID: Standard 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0059	0.0286	0.0060	01:41:17	No

[Hg] Standard number 2 applied. [1.000]
Correlation Coefficient: 0.99927 Slope: 0.00595
Intercept : -0.00011

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 12/17/2009
Sample ID: Standard 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0124	0.0606	0.0126	01:42:36	No

[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient: 0.99953 Slope: 0.00624
Intercept : -0.00019

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 12/17/2009
Sample ID: Standard 4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0319	0.1605	0.0321	01:43:56	No

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99986 Slope: 0.00643
Intercept : -0.00031

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 12/17/2009
Sample ID: Standard 5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0631	0.3227	0.0633	01:45:16	No

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99995 Slope: 0.00635
Intercept : -0.00021

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0002	---	----	----	----
Standard 1	0.0010	0.200	0.183	----	----
Standard 2	0.0059	1.000	0.958	----	----
Standard 3	0.0124	2.000	1.987	----	----
Standard 4	0.0319	5.000	5.063	----	----
Standard 5	0.0631	10.000	9.976	----	----
Calib Blank	0.0002	---	----	----	----

Correlation Coefficient: 0.99995 Slope: 0.00635 Intercept: -0.0002

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 12/17/2009
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.303	5.303	0.0335	0.1701	0.0336	01:46:35	No

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 12/17/2009
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.075	0.075	0.0003	0.0015	0.0004	01:47:52	No

Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 12/17/2009
Sample ID: MB 220-34334/1-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.039	0.039	0.0000	0.0013	0.0002	01:48:47	No

Element: Hg Seq. No.: 10 AS Loc.: 12 Date: 12/17/2009
Sample ID: LCS 220-34334/2-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.945	4.945	0.0312	0.1604	0.0313	01:49:42	No

Element: Hg Seq. No.: 11 AS Loc.: 13 Date: 12/17/2009
Sample ID: 220-10916-B-2-J

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.184	0.184	0.0010	0.0050	0.0011	01:51:01	No

Element: Hg Seq. No.: 12 AS Loc.: 14 Date: 12/17/2009
Sample ID: 220-10916-B-2-K DU

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.179	0.179	0.0009	0.0037	0.0011	01:51:56	No

Element: Hg Seq. No.: 13 AS Loc.: 15 Date: 12/17/2009
Sample ID: 220-10916-B-2-L MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.007	2.007	0.0125	0.0639	0.0127	01:52:51	No

Element: Hg Seq. No.: 14 AS Loc.: 16 Date: 12/17/2009
Sample ID: 220-10916-B-2-M MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.069	2.069	0.0129	0.0638	0.0131	01:54:13	No

Element: Hg Seq. No.: 15 AS Loc.: 17 Date: 12/17/2009
Sample ID: 220-10984-A-11-F

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.286	0.286	0.0016	0.0078	0.0018	01:55:32	No

Element: Hg Seq. No.: 16 AS Loc.: 18 Date: 12/17/2009
Sample ID: 220-10984-A-16-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.493	1.493	0.0093	0.0472	0.0094	01:56:29	No

Element: Hg Seq. No.: 17 AS Loc.: 19 Date: 12/17/2009
Sample ID: 220-10984-A-21-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.194	1.194	0.0074	0.0388	0.0075	01:57:45	No

Element: Hg Seq. No.: 18 AS Loc.: 20 Date: 12/17/2009
Sample ID: 220-10984-A-26-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.127	0.127	0.0006	0.0022	0.0008	01:59:02	No

Element: Hg Seq. No.: 19 AS Loc.: 21 Date: 12/17/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.899	4.899	0.0309	0.1570	0.0311	01:59:57	No

Element: Hg Seq. No.: 20 AS Loc.: 22 Date: 12/17/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.052	0.052	0.0001	0.0002	0.0003	02:01:13	No

Element: Hg Seq. No.: 21 AS Loc.: 23 Date: 12/17/2009
Sample ID: 220-10984-A-31-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.922	0.922	0.0056	0.0280	0.0058	02:02:07	No

Element: Hg Seq. No.: 22 AS Loc.: 24 Date: 12/17/2009
Sample ID: 220-10984-A-36-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.734	0.734	0.0044	0.0224	0.0046	02:03:26	No

Element: Hg Seq. No.: 23 AS Loc.: 25 Date: 12/17/2009
Sample ID: 220-10984-A-41-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.045	0.045	0.0001	0.0006	0.0002	02:04:46	No

Element: Hg Seq. No.: 24 AS Loc.: 26 Date: 12/17/2009
Sample ID: 220-10984-A-46-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	-0.0002	-0.0022	0.0000	02:05:41	No

Element: Hg Seq. No.: 25 AS Loc.: 27 Date: 12/17/2009
Sample ID: 220-11019-B-21-D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.215	0.215	0.0012	0.0055	0.0013	02:06:36	No

Element: Hg Seq. No.: 26 AS Loc.: 28 Date: 12/17/2009
Sample ID: 220-11066-A-5-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.678	2.678	0.0168	0.0837	0.0170	02:07:31	No

Element: Hg Seq. No.: 27 AS Loc.: 29 Date: 12/17/2009
Sample ID: 220-11066-A-6-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.519	0.519	0.0031	0.0140	0.0032	02:08:52	No

Element: Hg Seq. No.: 28 AS Loc.: 30 Date: 12/17/2009
Sample ID: 220-11066-A-7-A

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	0.711	0.711	0.0043	0.0212	0.0045	02:10:13	No

Element: Hg Seq. No.: 29 AS Loc.: 31 Date: 12/17/2009
Sample ID: 220-11066-A-8-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	15.95	15.95	0.1010	0.5035	0.1012	02:11:34	No

Sample absorbance is greater than that of the highest standard.

Element: Hg Seq. No.: 30 AS Loc.: 32 Date: 12/17/2009
Sample ID: 220-11066-A-9-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	32.93	32.93	0.2088	1.0606	0.2090	02:12:53	No

Sample absorbance is greater than that of the highest standard.

Element: Hg Seq. No.: 31 AS Loc.: 33 Date: 12/17/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.991	4.991	0.0315	0.1596	0.0316	02:14:08	No

Element: Hg Seq. No.: 32 AS Loc.: 34 Date: 12/17/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.047	0.047	0.0001	0.0003	0.0003	02:15:23	No

Element: Hg Seq. No.: 33 AS Loc.: 35 Date: 12/17/2009
Sample ID: 220-11066-A-10-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.481	0.481	0.0028	0.0142	0.0030	02:16:18	No

Element: Hg Seq. No.: 34 AS Loc.: 36 Date: 12/17/2009
Sample ID: 220-11066-A-11-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.486	0.486	0.0029	0.0149	0.0030	02:17:13	No

Element: Hg Seq. No.: 35 AS Loc.: 37 Date: 12/17/2009
Sample ID: 220-11066-A-12-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.459	0.459	0.0027	0.0138	0.0029	02:18:08	No

Element: Hg Seq. No.: 36 AS Loc.: 38 Date: 12/17/2009
Sample ID: 220-11066-A-13-A

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	5.252	5.252	0.0331	0.1656	0.0333	02:19:03	No

Element: Hg Seq. No.: 37 AS Loc.: 39 Date: 12/17/2009
Sample ID: 220-10985-A-1-D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.107	0.107	0.0005	0.0024	0.0006	02:20:21	No

Element: Hg Seq. No.: 38 AS Loc.: 40 Date: 12/17/2009
Sample ID: 220-11066-A-9-A DIL: 5x JV 12/17/09

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.218	6.218	0.0393	0.1986	0.0394	02:21:16	No

Element: Hg Seq. No.: 39 AS Loc.: 45 Date: 12/17/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.931	4.931	0.0311	0.1555	0.0313	02:22:28	No

Element: Hg Seq. No.: 40 AS Loc.: 46 Date: 12/17/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.071	0.071	0.0002	0.0008	0.0004	02:23:50	No

TestAmerica

128 Long Hill Cross Roads
Shelton, Connecticut, 06484

METALS QUALITY CONTROL APPROVAL REPORT

Batch Number 34534

	1st Level Review	Comments
Chain of Custody forms have been completed.	JV 12/22/09	
Initial Calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other		
Continuing calibration meets the following criteria*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other		
Correct analytical sequence followed (CRI, ICSA,etc.) and criteria* met.		
All blank criteria* met. ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other		
IDLs, Linear Range and IECs current.		
LSC, MS,MD, MSD (if required) meet acceptance limits*: ( )CLP ( )EPA200.7 ( )NYSDEC (✓)SW846 ( )Other		
Serial dilution analyzed once per SDG or 20 samples.	NA	
Post digestion spike performed as required.	NA	
Flagging correct.	JV 12/22/09	
All raw data submitted as per deliverable requiements.		
Prep batch completed with proper information.		
All deviations, prep and anlaysis methods noted in NCMs.		

* Reference SOPs for appropriate acceptance criteria.

This data meets the requirements of the Metals SOP's, unless otherwise documented in a NCM.

Authorizing Signature (2nd level Review) Date 12/22/09

TestAmerica Form #MEF01105.CT

Sample Information File C:\AAUSER\SAMPINFO\122209.SIF

Description : msnclsol_150, mhclsol_130
Batch ID : 7471A
Volume Units : mL
Weight Units :
Analyst : JV
Sample Volume : 0.50

AS Loc	Sample ID	Sample Weight	Sample Units	User Dilution	Remarks
9	ICV				
10	ICB				
11	MB 220-34466/1-A			1.0000	
12	LCS 220-34466/2-A			1.0000	
13	220-11076-B-86-B			1.0000	
14	220-11076-B-91-B			1.0000	
15	220-10986-A-3-M			1.0000	
16	220-10986-A-3-N DU			1.0000	
17	220-10986-A-3-O MS			1.0000	
18	220-10986-A-3-P MSD			1.0000	
19	220-10986-A-4-E			1.0000	
20	220-10986-A-5-E			1.0000	
21	CCV				
22	CCB				
23	220-11066-A-1-B			1.0000	
24	220-11066-A-2-B			1.0000	
25	220-11066-A-3-B			1.0000	
26	220-11066-A-4-B			1.0000	
27	220-11091-A-1-I			1.0000	
28	220-11091-A-6-F			1.0000	
29	220-11091-A-11-F			1.0000	
30	220-11091-A-16-F			1.0000	
31	220-11091-A-21-C			1.0000	
32	220-11091-A-26-C			1.0000	
33	CCV				
34	CCB				
35	220-11091-A-31-C			1.0000	
36	220-11091-A-36-C			1.0000	
37	220-11091-A-41-C			1.0000	
38	220-11091-A-46-C			1.0000	
39	220-11091-A-51-C			1.0000	
40	MB 220-34469/1-A			1.0000	
41	LCS 220-34469/2-A			1.0000	
42	220-11115-B-1-A			1.0000	
43	220-11115-B-6-A			1.0000	
44	220-11115-B-6-B DU			1.0000	
45	CCV				
46	CCB				
47	220-11115-B-6-C MS			1.0000	
48	220-11115-B-11-A			1.0000	
49	220-11115-B-16-A			1.0000	
50	220-11115-B-21-A			1.0000	
51	220-11115-B-26-A			1.0000	
52	220-11115-B-31-A			1.0000	
53	220-11115-B-36-A			1.0000	
54	220-11115-B-41-A			1.0000	
55	220-11115-B-46-A			1.0000	
56	220-11115-B-51-A			1.0000	
57	CCV				
58	CCB				
59	220-11115-B-56-A			1.0000	
60	220-11115-B-61-A			1.0000	

61	220-11115-B-66-A	1.0000
62	220-11115-B-71-A	1.0000
63	220-11115-B-76-A	1.0000
64	220-11060-A-1-C	1.0000
65	220-11060-A-2-C	1.0000
66	220-11060-A-3-C	1.0000
67	220-11060-A-4-C	1.0000
68	220-10986-A-3-N DU	1.0000
69	CCV	
70	CCB	
71	220-10986-A-3-O MS	1.0000
72	3	
73	4	
74	5	
75	6	
76	7	
77	8	
78	9	
79	10	
80	11	
81	CCV	
82	CCB	

Method Name: STLHG1
Method Description: STLHG1
Element: Hg

Date: 12/22/2009
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 122209.SIF Results Data Set Name: CV122209

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 12/22/2009
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0001	-0.0015	0.0001	10:34:34	No

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 12/22/2009
Sample ID: Standard 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0006	-0.0003	0.0007	10:35:30	No

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.00281
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 12/22/2009
Sample ID: Standard 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0051	0.0223	0.0052	10:36:26	No

[Hg] Standard number 2 applied. [1.000]
Correlation Coefficient: 0.99604 Slope: 0.00524
Intercept : -0.00022

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 12/22/2009
Sample ID: Standard 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0105	0.0515	0.0107	10:37:44	No

[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient: 0.99905 Slope: 0.00538
Intercept : -0.00026

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 12/22/2009
Sample ID: Standard 4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0229	0.1174	0.0231	10:39:04	No

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99751 Slope: 0.00463
Intercept : 0.00023

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 12/22/2009
Sample ID: Standard 5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0504	0.2575	0.0505	10:40:24	No

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99878 Slope: 0.00499
Intercept : -0.00021

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0001	---	----	----	----
Standard 1	0.0006	0.200	0.155	----	----
Standard 2	0.0051	1.000	1.061	----	----
Standard 3	0.0105	2.000	2.158	----	----
Standard 4	0.0229	5.000	4.640	----	----
Standard 5	0.0504	10.000	10.14	----	----
Calib Blank	0.0001	---	----	----	----

Correlation Coefficient: 0.99878 Slope: 0.00499 Intercept: -0.0002

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 12/22/2009
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.431	5.431	0.0269	0.1358	0.0270	10:41:42	No

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 12/22/2009
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.080	0.080	0.0002	0.0017	0.0003	10:42:59	No

Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 12/22/2009
Sample ID: MB 220-34466/1-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	-0.0002	-0.0042	0.0000	10:43:54	No

Element: Hg Seq. No.: 10 AS Loc.: 12 Date: 12/22/2009
Sample ID: LCS 220-34466/2-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.345	5.345	0.0264	0.1338	0.0266	10:44:49	No

Element: Hg Seq. No.: 11 AS Loc.: 13 Date: 12/22/2009
Sample ID: 220-11076-B-86-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.016	0.016	-0.0001	-0.0035	0.0000	10:46:08	No

Element: Hg Seq. No.: 12 AS Loc.: 14 Date: 12/22/2009
Sample ID: 220-11076-B-91-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.003	1.003	0.0048	0.0217	0.0049	10:47:03	No

Element: Hg Seq. No.: 13 AS Loc.: 15 Date: 12/22/2009
Sample ID: 220-10986-A-3-M

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.024	0.024	-0.0001	-0.0026	0.0000	10:48:24	No

Element: Hg Seq. No.: 14 AS Loc.: 16 Date: 12/22/2009
Sample ID: 220-10986-A-3-N DU

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.095	2.095	0.0102	0.0519	0.0104	10:49:10	No

12/22/09 *incorrect Sample order on A/S rack

Element: Hg Seq. No.: 15 AS Loc.: 17 Date: 12/22/2009
Sample ID: 220-10986-A-3-O MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.019	0.019	-0.0001	-0.0017	0.0000	10:50:38	No

Element: Hg Seq. No.: 16 AS Loc.: 18 Date: 12/22/2009
Sample ID: 220-10986-A-3-P MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.894	1.894	0.0092	0.0476	0.0094	10:51:33	No

Element: Hg Seq. No.: 17 AS Loc.: 19 Date: 12/22/2009
Sample ID: 220-10986-A-4-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.089	0.089	0.0002	0.0011	0.0004	10:52:49	No

Element: Hg Seq. No.: 18 AS Loc.: 20 Date: 12/22/2009
Sample ID: 220-10986-A-5-E

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.028	0.028	-0.0001	-0.0014	0.0001	10:53:44	No

Element: Hg Seq. No.: 19 AS Loc.: 21 Date: 12/22/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.196	5.196	0.0257	0.1308	0.0258	10:54:39	No

Element: Hg Seq. No.: 20 AS Loc.: 22 Date: 12/22/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	-0.0001	-0.0021	0.0000	10:55:57	No

Element: Hg Seq. No.: 21 AS Loc.: 23 Date: 12/22/2009
Sample ID: 220-11066-A-1-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.320	1.320	0.0064	0.0323	0.0065	10:56:52	No

Element: Hg Seq. No.: 22 AS Loc.: 24 Date: 12/22/2009
Sample ID: 220-11066-A-2-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.920	9.920	0.0493	0.2590	0.0494	10:58:13	No

Element: Hg Seq. No.: 23 AS Loc.: 25 Date: 12/22/2009
Sample ID: 220-11066-A-3-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.415	1.415	0.0068	0.0345	0.0070	10:59:32	No

Element: Hg Seq. No.: 24 AS Loc.: 26 Date: 12/22/2009
Sample ID: 220-11066-A-4-B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.365	0.365	0.0016	0.0074	0.0017	11:00:51	No

Element: Hg Seq. No.: 25 AS Loc.: 27 Date: 12/22/2009
Sample ID: 220-11091-A-1-I

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.327	0.327	0.0014	0.0066	0.0015	11:01:46	No

Element: Hg Seq. No.: 26 AS Loc.: 28 Date: 12/22/2009
Sample ID: 220-11091-A-6-F

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.234	0.234	0.0010	0.0044	0.0011	11:02:41	No

Element: Hg Seq. No.: 27 AS Loc.: 29 Date: 12/22/2009
Sample ID: 220-11091-A-11-F

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.114	0.114	0.0004	0.0013	0.0005	11:03:35	No

Element: Hg Seq. No.: 28 AS Loc.: 30 Date: 12/22/2009
Sample ID: 220-11091-A-16-F

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	0.029	0.029	-0.0001	-0.0026	0.0001	11:04:30	No

Element: Hg Seq. No.: 29 AS Loc.: 31 Date: 12/22/2009
Sample ID: 220-11091-A-21-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.337	0.337	0.0015	0.0066	0.0016	11:05:24	No

Element: Hg Seq. No.: 30 AS Loc.: 32 Date: 12/22/2009
Sample ID: 220-11091-A-26-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.089	1.089	0.0052	0.0263	0.0053	11:06:22	No

Element: Hg Seq. No.: 31 AS Loc.: 33 Date: 12/22/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.214	5.214	0.0258	0.1313	0.0259	11:07:37	No

Element: Hg Seq. No.: 32 AS Loc.: 34 Date: 12/22/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	-0.0002	-0.0029	0.0000	11:08:52	No

Element: Hg Seq. No.: 33 AS Loc.: 35 Date: 12/22/2009
Sample ID: 220-11091-A-31-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	-0.0002	-0.0028	0.0000	11:09:47	No

Element: Hg Seq. No.: 34 AS Loc.: 36 Date: 12/22/2009
Sample ID: 220-11091-A-36-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.977	0.977	0.0047	0.0229	0.0048	11:10:42	No

Element: Hg Seq. No.: 35 AS Loc.: 37 Date: 12/22/2009
Sample ID: 220-11091-A-41-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.106	1.106	0.0053	0.0266	0.0054	11:11:58	No

Element: Hg Seq. No.: 36 AS Loc.: 38 Date: 12/22/2009
Sample ID: 220-11091-A-46-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.995	0.995	0.0047	0.0244	0.0049	11:13:15	No

Element: Hg Seq. No.: 37 AS Loc.: 39 Date: 12/22/2009
Sample ID: 220-11091-A-51-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.049	0.049	0.0000	-0.0001	0.0002	11:14:33	No

Element: Hg Seq. No.: 38 AS Loc.: 40 Date: 12/22/2009
Sample ID: MB 220-34469/1-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.020	0.020	-0.0001	-0.0010	0.0000	11:15:28	No

Element: Hg Seq. No.: 39 AS Loc.: 41 Date: 12/22/2009
Sample ID: LCS 220-34469/2-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.094	5.094	0.0252	0.1277	0.0253	11:16:23	No

Element: Hg Seq. No.: 40 AS Loc.: 42 Date: 12/22/2009
Sample ID: 220-11115-B-1-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.271	0.271	0.0011	0.0052	0.0013	11:17:42	No

Element: Hg Seq. No.: 41 AS Loc.: 43 Date: 12/22/2009
Sample ID: 220-11115-B-6-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.098	0.098	0.0003	0.0016	0.0004	11:18:37	No

Element: Hg Seq. No.: 42 AS Loc.: 44 Date: 12/22/2009
Sample ID: 220-11115-B-6-B DU

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.080	0.080	0.0002	0.0009	0.0003	11:19:32	No

Element: Hg Seq. No.: 43 AS Loc.: 45 Date: 12/22/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.989	4.989	0.0247	0.1263	0.0248	11:20:27	No

Element: Hg Seq. No.: 44 AS Loc.: 46 Date: 12/22/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.060	0.060	0.0001	0.0009	0.0002	11:21:48	No

Element: Hg Seq. No.: 45 AS Loc.: 47 Date: 12/22/2009
Sample ID: 220-11115-B-6-C MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.755	1.755	0.0085	0.0451	0.0087	11:22:43	No

Element: Hg Seq. No.: 46 AS Loc.: 48 Date: 12/22/2009
Sample ID: 220-11115-B-11-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.046	0.046	0.0000	0.0000	0.0001	11:24:00	No

Element: Hg Seq. No.: 47 AS Loc.: 49 Date: 12/22/2009
Sample ID: 220-11115-B-16-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.93	10.93	0.0543	0.2853	0.0544	11:24:55	No

Element: Hg Seq. No.: 48 AS Loc.: 50 Date: 12/22/2009
Sample ID: 220-11115-B-21-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.300	0.300	0.0013	0.0059	0.0014	11:26:09	No

Element: Hg Seq. No.: 49 AS Loc.: 51 Date: 12/22/2009
Sample ID: 220-11115-B-26-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.190	0.190	0.0007	0.0035	0.0009	11:27:04	No

Element: Hg Seq. No.: 50 AS Loc.: 52 Date: 12/22/2009
Sample ID: 220-11115-B-31-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.803	0.803	0.0038	0.0193	0.0039	11:27:59	No

Element: Hg Seq. No.: 51 AS Loc.: 53 Date: 12/22/2009
Sample ID: 220-11115-B-36-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.468	8.468	0.0420	0.2126	0.0421	11:29:16	No

Element: Hg Seq. No.: 52 AS Loc.: 54 Date: 12/22/2009
Sample ID: 220-11115-B-41-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.076	0.076	0.0002	0.0003	0.0003	11:30:33	No

Element: Hg Seq. No.: 53 AS Loc.: 55 Date: 12/22/2009
Sample ID: 220-11115-B-46-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.027	0.027	-0.0001	-0.0009	0.0000	11:31:28	No

Element: Hg Seq. No.: 54 AS Loc.: 56 Date: 12/22/2009
Sample ID: 220-11115-B-51-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.541	1.541	0.0075	0.0373	0.0076	11:32:23	No

Element: Hg Seq. No.: 55 AS Loc.: 57 Date: 12/22/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.862	4.862	0.0240	0.1221	0.0242	11:33:42	No

Element: Hg Seq. No.: 56 AS Loc.: 58 Date: 12/22/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.027	0.027	-0.0001	-0.0009	0.0000	11:35:01	No

Element: Hg Seq. No.: 57 AS Loc.: 59 Date: 12/22/2009
Sample ID: 220-11115-B-56-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.478	0.478	0.0022	0.0101	0.0023	11:35:56	No

Element: Hg Seq. No.: 58 AS Loc.: 60 Date: 12/22/2009
Sample ID: 220-11115-B-61-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.092	0.092	0.0002	0.0014	0.0004	11:36:50	No

Element: Hg Seq. No.: 59 AS Loc.: 61 Date: 12/22/2009
Sample ID: 220-11115-B-66-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.593	0.593	0.0027	0.0136	0.0029	11:37:45	No

Element: Hg Seq. No.: 60 AS Loc.: 62 Date: 12/22/2009
Sample ID: 220-11115-B-71-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.064	0.064	0.0001	0.0002	0.0002	11:38:40	No

Element: Hg Seq. No.: 61 AS Loc.: 63 Date: 12/22/2009
Sample ID: 220-11115-B-76-A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.027	0.027	-0.0001	-0.0004	0.0000	11:39:38	No

Element: Hg Seq. No.: 62 AS Loc.: 64 Date: 12/22/2009
Sample ID: 220-11060-A-1-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.402	0.402	0.0018	0.0094	0.0019	11:40:33	No

Element: Hg Seq. No.: 63 AS Loc.: 65 Date: 12/22/2009
Sample ID: 220-11060-A-2-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.898	3.898	0.0192	0.0944	0.0194	11:41:28	No

Element: Hg Seq. No.: 64 AS Loc.: 66 Date: 12/22/2009
Sample ID: 220-11060-A-3-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.158	0.158	0.0006	0.0035	0.0007	11:42:43	No

Element: Hg Seq. No.: 65 AS Loc.: 67 Date: 12/22/2009
Sample ID: 220-11060-A-4-C

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.162	1.162	0.0056	0.0276	0.0057	11:43:38	No

Element: Hg Seq. No.: 66 AS Loc.: 68 Date: 12/22/2009
Sample ID: 220-10986-A-3-N DU

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.081	0.081	0.0002	0.0021	0.0003	11:51:55	No

Element: Hg Seq. No.: 67 AS Loc.: 69 Date: 12/22/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.779	4.779	0.0236	0.1223	0.0237	11:52:50	No

Element: Hg Seq. No.: 68 AS Loc.: 70 Date: 12/22/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.039	0.039	0.0000	0.0001	0.0001	11:54:08	No

Element: Hg Seq. No.: 69 AS Loc.: 71 Date: 12/22/2009
Sample ID: 220-10986-A-3-O MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.909	1.909	0.0093	0.0489	0.0094	11:55:03	No

Element: Hg Seq. No.: 70 AS Loc.: 81 Date: 12/22/2009
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.848	4.848	0.0240	0.1242	0.0241	11:56:25	No

Element: Hg Seq. No.: 71 AS Loc.: 82 Date: 12/22/2009
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.042	0.042	0.0000	0.0001	0.0001	11:57:40	No

Metals Worksheet

Batch Number: 220-34334
Method: 7471A
Analyst: Voytek, Joseph F

Date Open: Dec 16 2009 11:04AM
Batch End: Dec 16 2009 1:22PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	mhgcal_00032	mhgcalver_00034	mhgccv_00412	mhgicv_00412
MB~220-34334/1		7471A, 7471A		0.60 g	50 mL				
LCS~220-34334/2		7471A, 7471A		0.60 g	50 mL		0.5 mL		
220-10916-B-2	SB-3 (7-9')		T	0.61 g	50 mL				
220-10916-B-2~DU			T	0.61 g	50 mL				
220-10916-B-2~MS	SB-3 (7-9')		T	0.60 g	50 mL	0.2 mL			
220-10916-B-2~MSD	SB-3 (7-9')		T	0.60 g	50 mL	0.2 mL			
220-10984-A-11	E7/18-26		T	0.65 g	50 mL				
220-10984-A-16	F7/3-11		T	0.60 g	50 mL				
220-10984-A-21	F7/11-19		T	0.64 g	50 mL				
220-10984-A-26	F7/19-27		T	0.63 g	50 mL				
220-10984-A-31	L7/4-12		T	0.62 g	50 mL				
220-10984-A-36	L7/12-20		T	0.65 g	50 mL				
220-10984-A-41	L7/20-28		T	0.60 g	50 mL				
220-10984-A-46	L7/28-36		T	0.62 g	50 mL				
220-11019-B-21	AOC21-01-04		T	0.65 g	50 mL				
220-11066-A-5	PBL-5-10-S(2')	7471A, 7471A	T	0.65 g	50 mL				
220-11066-A-6	PBL-1-30-E(9')	7471A, 7471A	T	0.62 g	50 mL				
220-11066-A-7	PBL-1-30-E(9') F.D.	7471A, 7471A	T	0.64 g	50 mL				
220-11066-A-8	PBL-2-60-E(4')	7471A, 7471A	T	0.60 g	50 mL				
220-11066-A-9	PBL-2-60-E(4') F.D.	7471A, 7471A	T	0.61 g	50 mL				
220-11066-A-10	PBL-2-30-N(10')	7471A, 7471A	T	0.63 g	50 mL				
220-11066-A-11	PBL-2-30-N(10') F.D.	7471A, 7471A	T	0.65 g	50 mL				
220-11066-A-12	PBL-2-60-N(11')	7471A, 7471A	T	0.65 g	50 mL				
220-11066-A-13	PBL-8-60-S(12')	7471A, 7471A	T	0.65 g	50 mL				
220-10985-A-1	SB-5 (6-8)		T	0.65 g	50 mL				

Metals Worksheet

Batch Number: 220-34334
Method: 7471A
Analyst: Voytek, Joseph F

Date Open: Dec 16 2009 11:04AM
Batch End: Dec 16 2009 1:22PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	mhgcal_00032	mhgcalver_00034	mhgccv_00412	mhgicv_00412
ICV~220-34334/26				50 mL	50 mL				50 mL
ICB~220-34334/27				50 mL	50 mL				
CCV~220-34334/28				50 mL	50 mL			50 mL	
CCB~220-34334/29				50 mL	50 mL				
cal~1				50 mL	50 mL	0.02 mL			
cal~2				50 mL	50 mL	0.1 mL			
cal~3				50 mL	50 mL	0.2 mL			
cal~4				50 mL	50 mL	0.5 mL			
cal~5				50 mL	50 mL	1 mL			

DigestionTubes:	A905LS269
Hot Block ID number:	hb1
Hood ID or number:	hood 1
Balance ID:	t2
Lot # of Nitric Acid:	MNITRICACD-00008
ID number of the thermometer:	2k0511
Lot # of hydrochloric acid:	WHCLACD-00012
Potassium Permanganate Lot Number:	MKMNO4-00001
Stannous Chloride Lot Number:	MSNCL22H2O-00003
Oven, Bath or Block Temperature 1:	94
Oven, Bath or Block Temperature 2:	93
NaCL Lot #:	MNACL-00003
Aqua Regia Lot Number:	MAQR-00073
Hydroxylamine Hydrochloride Lot:	MNH2OHHCL-00002

Metals Worksheet

Batch Number: 220-34334
Method: 7471A
Analyst: Voytek, Joseph F

Date Open: Dec 16 2009 11:04AM
Batch End: Dec 16 2009 1:22PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~220-34334/1		7471A, 7471A		
LCS~220-34334/2		7471A, 7471A		
220-10916-B-2	SB-3 (7-9')		T	
220-10916-B-2~DU			T	
220-10916-B-2~MS	SB-3 (7-9')		T	
220-10916-B-2~MSD	SB-3 (7-9')		T	
220-10984-A-11	E7/18-26		T	
220-10984-A-16	F7/3-11		T	
220-10984-A-21	F7/11-19		T	
220-10984-A-26	F7/19-27		T	
220-10984-A-31	L7/4-12		T	
220-10984-A-36	L7/12-20		T	
220-10984-A-41	L7/20-28		T	
220-10984-A-46	L7/28-36		T	
220-11019-B-21	AOC21-01-04		T	
220-11066-A-5	PBL-5-10-S(2')	7471A, 7471A	T	
220-11066-A-6	PBL-1-30-E(9')	7471A, 7471A	T	
220-11066-A-7	PBL-1-30-E(9') F.D.	7471A, 7471A	T	
220-11066-A-8	PBL-2-60-E(4')	7471A, 7471A	T	
220-11066-A-9	PBL-2-60-E(4') F.D.	7471A, 7471A	T	
220-11066-A-10	PBL-2-30-N(10')	7471A, 7471A	T	
220-11066-A-11	PBL-2-30-N(10') F.D.	7471A, 7471A	T	
220-11066-A-12	PBL-2-60-N(11')	7471A, 7471A	T	
220-11066-A-13	PBL-8-60-S(12')	7471A, 7471A	T	
220-10985-A-1	SB-5 (6-8)		T	

Metals Worksheet

Batch Number: 220-34334
Method: 7471A
Analyst: Voytek, Joseph F

Date Open: Dec 16 2009 11:04AM
Batch End: Dec 16 2009 1:22PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
ICV~220-34334/26				
ICB~220-34334/27				
CCV~220-34334/28				
CCB~220-34334/29				
cal~1				
cal~2				
cal~3				
cal~4				
cal~5				

Batch Comment: self witnessed

Metals Worksheet

Batch Number: 220-34373
Method: 7470A
Analyst: Voytek, Joseph F

Date Open: Dec 17 2009 10:58AM
Batch End: Dec 17 2009 1:20PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	mhgcal_00032	mhgcalver_00034	mhgccv_00413	mhgicv_00413
MB~220-34373/1		7470A, 7470A		25 mL	50 mL				
LCS~220-34373/2		7470A, 7470A		50 mL	50 mL		0.5 mL		
LB~220-34290/1-A				5 mL	50 mL				
220-11019-C-21-A	AOC21-01-04		P	5 mL	50 mL				
LB~220-34376/1-A				5 mL	50 mL				
220-11061-C-20-A	BP-6		P	5 mL	50 mL				
220-10983-C-2	M-8B		T	25 mL	50 mL				
220-10983-C-3	M-11B		T	25 mL	50 mL				
220-10983-C-4	M-12C		T	25 mL	50 mL				
220-10983-C-5	M-13B		T	25 mL	50 mL				
220-10983-C-6	M-14B		T	25 mL	50 mL				
220-10983-C-7	M-14BD		T	25 mL	50 mL				
220-10983-C-9	FB1208F		T	25 mL	50 mL				
220-10983-C-10	M-11BF		T	25 mL	50 mL				
220-10983-C-11	M-9B		T	25 mL	50 mL				
220-10983-C-11~DU			T	25 mL	50 mL				
220-10983-C-11~MS	M-9B		T	25 mL	50 mL	0.1 mL			
220-10983-C-11~MSD	M-9B		T	25 mL	50 mL	0.1 mL			
220-10983-C-12	M-10C		T	25 mL	50 mL				
220-10983-C-13	FB1209		T	25 mL	50 mL				
220-10986-D-1	CGFB-121009		T	25 mL	50 mL				
220-10989-D-1	AS-14		T	25 mL	50 mL				
220-10989-D-2	FB_121009		T	25 mL	50 mL				
220-11066-C-14	FB-1	7470A, 7470A	T	25 mL	50 mL				
220-11066-C-15	FB-2	7470A, 7470A	T	25 mL	50 mL				

Metals Worksheet

Batch Number: 220-34373
Method: 7470A
Analyst: Voytek, Joseph F

Date Open: Dec 17 2009 10:58AM
Batch End: Dec 17 2009 1:20PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	mhgcal_00032	mhgcalver_00034	mhgccv_00413	mhgicv_00413
220-11066-C-16	FB-3	7470A, 7470A	T	25 mL	50 mL				
220-11027-A-1	121S		T	25 mL	50 mL				
ICV~220-34373/28				50 mL	50 mL				50 mL
ICB~220-34373/29				50 mL	50 mL				
CCV~220-34373/30				50 mL	50 mL			50 mL	
CCB~220-34373/31				50 mL	50 mL				
cal~1				50 mL	50 mL	0.02 mL			
cal~2				50 mL	50 mL	0.1 mL			
cal~3				50 mL	50 mL	0.2 mL			
cal~4				50 mL	50 mL	0.5 mL			
cal~5				50 mL	50 mL	1 mL			

Oven, Bath or Block Temperature 1:	93 Celsius
Oven, Bath or Block Temperature 2:	94
DigestionTubes:	A905LS269
Hood ID or number:	hood 1
Hot Block ID number:	hb1
ID number of the thermometer:	2k0511
Lot # of Nitric Acid:	MNITRICACD-00008
Lot # of hydrochloric acid:	WHCLACD-00012
Sulfuric Acid Lot Number:	WSULFACD-00008
Potassium Permanganate Lot Number:	MKMNO4-00001
Potassium Persulfate Lot Number:	MK2S2O8-00002
Stannous Chloride Lot Number:	MSNCL22H2O-00003
Hydroxylamine Hydrochloride Lot:	MNH2OHHCL-00002
NaCL Lot #:	MNACL-00003

Metals Worksheet

Batch Number: 220-34373
Method: 7470A
Analyst: Voytek, Joseph F

Date Open: Dec 17 2009 10:58AM
Batch End: Dec 17 2009 1:20PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~220-34373/1		7470A, 7470A		
LCS~220-34373/2		7470A, 7470A		
LB~220-34290/1-A				
220-11019-C-21-A	AOC21-01-04		P	
LB~220-34376/1-A				
220-11061-C-20-A	BP-6		P	
220-10983-C-2	M-8B		T	
220-10983-C-3	M-11B		T	
220-10983-C-4	M-12C		T	
220-10983-C-5	M-13B		T	
220-10983-C-6	M-14B		T	
220-10983-C-7	M-14BD		T	
220-10983-C-9	FB1208F		T	
220-10983-C-10	M-11BF		T	
220-10983-C-11	M-9B		T	
220-10983-C-11~DU			T	
220-10983-C-11~MS	M-9B		T	
220-10983-C-11~MSD	M-9B		T	
220-10983-C-12	M-10C		T	
220-10983-C-13	FB1209		T	
220-10986-D-1	CGFB-121009		T	
220-10989-D-1	AS-14		T	
220-10989-D-2	FB_121009		T	
220-11066-C-14	FB-1	7470A, 7470A	T	
220-11066-C-15	FB-2	7470A, 7470A	T	

Metals Worksheet

Batch Number: 220-34373
Method: 7470A
Analyst: Voytek, Joseph F

Date Open: Dec 17 2009 10:58AM
Batch End: Dec 17 2009 1:20PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
220-11066-C-16	FB-3	7470A, 7470A	T	
220-11027-A-1	121S		T	
ICV~220-34373/28				
ICB~220-34373/29				
CCV~220-34373/30				
CCB~220-34373/31				
cal~1				
cal~2				
cal~3				
cal~4				
cal~5				

Batch Comment: self witnessed

Metals Worksheet

Batch Number: 220-34466
Method: 7471A
Analyst: Voytek, Joseph F

Date Open: Dec 21 2009 9:59AM
Batch End: Dec 21 2009 3:50PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	mhgcal_00032	mhgcalver_00034	mhgccv_00415	mhgicv_00415
MB~220-34466/1		7471A, 7471A		0.60 g	50 mL				
LCS~220-34466/2		7471A, 7471A		0.60 g	50 mL		0.5 mL		
220-11076-B-86	K6/28-36		T	0.62 g	50 mL				
220-11076-B-91	L6/0-6		T	0.62 g	50 mL				
220-10986-A-3	CGSB-76(88-90)		T	0.63 g	50 mL				
220-10986-A-3~DU			T	0.63 g	50 mL				
220-10986-A-3~MS	CGSB-76(88-90)		T	0.63 g	50 mL	0.2 mL			
220-10986-A-3~MSD	CGSB-76(88-90)		T	0.63 g	50 mL	0.2 mL			
220-10986-A-4	CGSB-XX 120909		T	0.64 g	50 mL				
220-10986-A-5	CGSB-76(102-104)		T	0.65 g	50 mL				
220-11066-A-1	PBL-5-10-E(4')	7471A, 7471A	T	0.61 g	50 mL				
220-11066-A-2	PBL-5-2-W(7')	7471A, 7471A	T	0.63 g	50 mL				
220-11066-A-3	PBL-5-5-N(6')	7471A, 7471A	T	0.60 g	50 mL				
220-11066-A-4	PBL-5-10-N(5')	7471A, 7471A	T	0.60 g	50 mL				
220-11091-A-1	O6/0-6		T	0.62 g	50 mL				
220-11091-A-6	O6/6-14		T	0.63 g	50 mL				
220-11091-A-11	O6/14-22		T	0.65 g	50 mL				
220-11091-A-16	O6/22-30		T	0.60 g	50 mL				
220-11091-A-21	N6/0-6		T	0.64 g	50 mL				
220-11091-A-26	M6/0-6		T	0.62 g	50 mL				
220-11091-A-31	O6/30-38		T	0.61 g	50 mL				
220-11091-A-36	N6/6-14		T	0.60 g	50 mL				
220-11091-A-41	N6/14-22		T	0.63 g	50 mL				
220-11091-A-46	N6/22-30		T	0.65 g	50 mL				
220-11091-A-51	N6/30-38		T	0.61 g	50 mL				

Metals Worksheet

Batch Number: 220-34466
Method: 7471A
Analyst: Voytek, Joseph F

Date Open: Dec 21 2009 9:59AM
Batch End: Dec 21 2009 3:50PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	mhgcal_00032	mhgcalver_00034	mhgccv_00415	mhgicv_00415
ICV~220-34466/26				50 mL	50 mL				50 mL
ICB~220-34466/27				50 mL	50 mL				
CCV~220-34466/28				50 mL	50 mL			50 mL	
CCB~220-34466/29				50 mL	50 mL				
cal~1				50 mL	50 mL	0.02 mL			
cal~2				50 mL	50 mL	0.1 mL			
cal~3				50 mL	50 mL	0.2 mL			
cal~4				50 mL	50 mL	0.5 mL			
cal~5				50 mL	50 mL	1 mL			

DigestionTubes:	A905LS269
Hot Block ID number:	hb1
Hood ID or number:	hood 1
Balance ID:	t2
Lot # of Nitric Acid:	MNITRICACD-00008
ID number of the thermometer:	2k0511
Lot # of hydrochloric acid:	WHCLACD-00012
Potassium Permanganate Lot Number:	MKMNO4-00001
Stannous Chloride Lot Number:	MSNCL22H2O-00003
Oven, Bath or Block Temperature 1:	93
Oven, Bath or Block Temperature 2:	93
NaCL Lot #:	MNACL-00003
Aqua Regia Lot Number:	MAQR-00074
Hydroxylamine Hydrochloride Lot:	MNH2OHHCL-00002

Metals Worksheet

Batch Number: 220-34466
Method: 7471A
Analyst: Voytek, Joseph F

Date Open: Dec 21 2009 9:59AM
Batch End: Dec 21 2009 3:50PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~220-34466/1		7471A, 7471A		
LCS~220-34466/2		7471A, 7471A		
220-11076-B-86	K6/28-36		T	
220-11076-B-91	L6/0-6		T	
220-10986-A-3	CGSB-76(88-90)		T	
220-10986-A-3~DU			T	
220-10986-A-3~MS	CGSB-76(88-90)		T	
220-10986-A-3~MSD	CGSB-76(88-90)		T	
220-10986-A-4	CGSB-XX 120909		T	
220-10986-A-5	CGSB-76(102-104)		T	
220-11066-A-1	PBL-5-10-E(4')	7471A, 7471A	T	
220-11066-A-2	PBL-5-2-W(7')	7471A, 7471A	T	
220-11066-A-3	PBL-5-5-N(6')	7471A, 7471A	T	
220-11066-A-4	PBL-5-10-N(5')	7471A, 7471A	T	
220-11091-A-1	O6/0-6		T	
220-11091-A-6	O6/6-14		T	
220-11091-A-11	O6/14-22		T	
220-11091-A-16	O6/22-30		T	
220-11091-A-21	N6/0-6		T	
220-11091-A-26	M6/0-6		T	
220-11091-A-31	O6/30-38		T	
220-11091-A-36	N6/6-14		T	
220-11091-A-41	N6/14-22		T	
220-11091-A-46	N6/22-30		T	
220-11091-A-51	N6/30-38		T	

Metals Worksheet

Batch Number: 220-34466
Method: 7471A
Analyst: Voytek, Joseph F

Date Open: Dec 21 2009 9:59AM
Batch End: Dec 21 2009 3:50PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
ICV~220-34466/26				
ICB~220-34466/27				
CCV~220-34466/28				
CCB~220-34466/29				
cal~1				
cal~2				
cal~3				
cal~4				
cal~5				

Batch Comment: self witnessed

Metals Worksheet

Batch Number: 220-34475
Method: 3050B
Analyst: Capece, Bill

Date Open: Dec 21 2009 10:58AM
Batch End: Dec 21 2009 2:59PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	MCAL2_00004	MEMS_00001	MLCS3_00004	MLCS4_00005
MB~220-34475/1		3050B, 6020		1.25 g	1000 mL				
LCS~220-34475/2		3050B, 6020		1.00 g	1000 mL	0.25 mL		0.25 mL	0.5 mL
220-11076-B-36	I6/4-12		T	1.11 g	1000 mL				
220-11076-B-36~DU			T	1.40 g	1000 mL				
220-11076-B-36~MS			T	1.47 g	1000 mL	0.05 mL	0.1 mL	0.05 mL	
220-11076-B-41	I6/12-20		T	1.27 g	1000 mL				
220-11076-B-46	I6/20-28		T	1.38 g	1000 mL				
220-11076-B-51	J6/4-12		T	1.14 g	1000 mL				
220-11076-B-56	J6/12-20		T	1.23 g	1000 mL				
220-11076-B-61	J6/20-28		T	1.09 g	1000 mL				
220-11076-B-66	K6/0-4		T	1.01 g	1000 mL				
220-11076-B-71	K6/4-12		T	1.50 g	1000 mL				
220-11076-B-76	K6/12-20		T	1.04 g	1000 mL				
220-11076-B-81	K6/20-28		T	1.17 g	1000 mL				
220-11076-B-86	K6/28-36		T	1.23 g	1000 mL				
220-11076-B-91	L6/0-6		T	1.09 g	1000 mL				
220-11066-A-1	PBL-5-10-E(4')	3050B, 6020	T	1.18 g	1000 mL				
220-11066-A-2	PBL-5-2-W(7')	3050B, 6020	T	1.08 g	1000 mL				
220-11066-A-3	PBL-5-5-N(6')	3050B, 6020	T	1.29 g	1000 mL				
220-11066-A-4	PBL-5-10-N(5')	3050B, 6020	T	1.10 g	1000 mL				
220-11066-A-5	PBL-5-10-S(2')	3050B, 6020	T	1.21 g	1000 mL				
220-11066-A-6	PBL-1-30-E(9')	3050B, 6020	T	1.40 g	1000 mL				
220-11066-A-7	PBL-1-30-E(9') F.D.	3050B, 6020	T	1.27 g	1000 mL				
220-11066-A-8	PBL-2-60-E(4')	3050B, 6020	T	1.24 g	1000 mL				

Metals Worksheet

Batch Number: 220-34475
Method: 3050B
Analyst: Capece, Bill

Date Open: Dec 21 2009 10:58AM
Batch End: Dec 21 2009 2:59PM

Lab ID	Client ID	Method Chain	Basis	MNA_00005
MB~220-34475/1		3050B, 6020		
LCS~220-34475/2		3050B, 6020		0.625 mL
220-11076-B-36	I6/4-12		T	
220-11076-B-36~DU			T	
220-11076-B-36~MS			T	
220-11076-B-41	I6/12-20		T	
220-11076-B-46	I6/20-28		T	
220-11076-B-51	J6/4-12		T	
220-11076-B-56	J6/12-20		T	
220-11076-B-61	J6/20-28		T	
220-11076-B-66	K6/0-4		T	
220-11076-B-71	K6/4-12		T	
220-11076-B-76	K6/12-20		T	
220-11076-B-81	K6/20-28		T	
220-11076-B-86	K6/28-36		T	
220-11076-B-91	L6/0-6		T	
220-11066-A-1	PBL-5-10-E(4')	3050B, 6020	T	
220-11066-A-2	PBL-5-2-W(7')	3050B, 6020	T	
220-11066-A-3	PBL-5-5-N(6')	3050B, 6020	T	
220-11066-A-4	PBL-5-10-N(5')	3050B, 6020	T	
220-11066-A-5	PBL-5-10-S(2')	3050B, 6020	T	
220-11066-A-6	PBL-1-30-E(9')	3050B, 6020	T	
220-11066-A-7	PBL-1-30-E(9') F.D.	3050B, 6020	T	
220-11066-A-8	PBL-2-60-E(4')	3050B, 6020	T	

DigestionTubes:	A905LS269	Oven, Bath or Block Temperature 2:	94 Degrees C
Balance ID:	t1		
Hood ID or number:	hood 1		
Hot Block ID number:	hb1		
Lot # of hydrochloric acid:	WHCLACD-00012		
Lot # of Nitric Acid:	MNITRICACD-00008		
Hydrogen peroxide lot number:	HYDROPERO-00004		
Analyst:	bc		
First Start time:	1142		
First End time:	1459		
Person's name who witnessed reagent drop:	jv		
Oven, Bath or Block Temperature 1:	94 Degrees C		

Metals Worksheet

Batch Number: 220-34494
Method: 3010A
Analyst: Voytek, Joseph F

Date Open: Dec 21 2009 11:35AM
Batch End: Dec 21 2009 3:02PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	MCAL2_00004	MEMS_00001	MLCS3_00004	mlcspw_00051
MB~220-34494/1		3010A, 6020		100 mL	500 mL				
LCS~220-34494/2		3010A, 6020		50 mL	500 mL				50 mL
220-10979-A-4	RC-MW-16		T	100 mL	500 mL				
220-10979-A-4~DU			T	100 mL	500 mL				
220-10979-A-4~MS			T	100 mL	500 mL	0.05 mL	0.1 mL	0.02 mL	
220-10979-A-5	RC-MW-3D		T	100 mL	500 mL				
220-10979-A-6	RC-MW-4		T	100 mL	500 mL				
220-10979-A-7	RC-MW-12		T	100 mL	500 mL				
220-10979-A-8	RC-MW-13		T	100 mL	500 mL				
220-10979-A-9	RC-MW-07		T	100 mL	500 mL				
220-10979-A-10	RC-MW-10		T	100 mL	500 mL				
220-10979-A-11	RC-MW-09		T	100 mL	500 mL				
220-10979-A-12	RC-MW-11		T	100 mL	500 mL				
220-10989-D-1	AS-14		T	100 mL	500 mL				
220-10989-D-2	FB_121009		T	100 mL	500 mL				
220-10994-A-1	NSL1009-01		T	100 mL	500 mL				
220-11007-A-1	NSL0986-01		T	100 mL	500 mL				
220-11008-A-1	NSL0995-01		T	100 mL	500 mL				
220-11066-C-14	FB-1	3010A, 6020	T	100 mL	500 mL				
220-11066-C-15	FB-2	3010A, 6020	T	100 mL	500 mL				
220-11066-C-16	FB-3	3010A, 6020	T	100 mL	500 mL				
220-11009-A-1	NSL1130-01		T	100 mL	500 mL				
220-11011-A-1	NSL1135-01		T	100 mL	500 mL				
220-11012-A-1	NSL1137-01		T	100 mL	500 mL				

Metals Worksheet

Batch Number: 220-34494
Method: 3010A
Analyst: Voytek, Joseph F

Date Open: Dec 21 2009 11:35AM
Batch End: Dec 21 2009 3:02PM

Lab ID	Client ID	Method Chain	Basis	MS_00003
MB~220-34494/1		3010A, 6020		
LCS~220-34494/2		3010A, 6020		0.2 mL
220-10979-A-4	RC-MW-16		T	
220-10979-A-4~DU			T	
220-10979-A-4~MS			T	0.2 mL
220-10979-A-5	RC-MW-3D		T	
220-10979-A-6	RC-MW-4		T	
220-10979-A-7	RC-MW-12		T	
220-10979-A-8	RC-MW-13		T	
220-10979-A-9	RC-MW-07		T	
220-10979-A-10	RC-MW-10		T	
220-10979-A-11	RC-MW-09		T	
220-10979-A-12	RC-MW-11		T	
220-10989-D-1	AS-14		T	
220-10989-D-2	FB_121009		T	
220-10994-A-1	NSL1009-01		T	
220-11007-A-1	NSL0986-01		T	
220-11008-A-1	NSL0995-01		T	
220-11066-C-14	FB-1	3010A, 6020	T	
220-11066-C-15	FB-2	3010A, 6020	T	
220-11066-C-16	FB-3	3010A, 6020	T	
220-11009-A-1	NSL1130-01		T	
220-11011-A-1	NSL1135-01		T	
220-11012-A-1	NSL1137-01		T	

Lot # of hydrochloric acid:	WHCLACD-00012
Lot # of Nitric Acid:	MNITRICACD-00008
DigestionTubes:	A905LS269
Hot Block ID number:	hb3
ID number of the thermometer:	16967
Oven, Bath or Block Temperature 1:	92 Degrees C
Oven, Bath or Block Temperature 2:	93 Degrees C
First Start time:	1135
First End time:	1502

Metals Worksheet

Batch Number: 220-34494
Method: 3010A
Analyst: Voytek, Joseph F

Date Open: Dec 21 2009 11:35AM
Batch End: Dec 21 2009 3:02PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~220-34494/1		3010A, 6020		
LCS~220-34494/2		3010A, 6020		
220-10979-A-4	RC-MW-16		T	
220-10979-A-4~DU			T	
220-10979-A-4~MS			T	
220-10979-A-5	RC-MW-3D		T	
220-10979-A-6	RC-MW-4		T	
220-10979-A-7	RC-MW-12		T	
220-10979-A-8	RC-MW-13		T	
220-10979-A-9	RC-MW-07		T	
220-10979-A-10	RC-MW-10		T	
220-10979-A-11	RC-MW-09		T	
220-10979-A-12	RC-MW-11		T	
220-10989-D-1	AS-14		T	
220-10989-D-2	FB_121009		T	
220-10994-A-1	NSL1009-01		T	
220-11007-A-1	NSL0986-01		T	
220-11008-A-1	NSL0995-01		T	
220-11066-C-14	FB-1	3010A, 6020	T	
220-11066-C-15	FB-2	3010A, 6020	T	
220-11066-C-16	FB-3	3010A, 6020	T	
220-11009-A-1	NSL1130-01		T	
220-11011-A-1	NSL1135-01		T	
220-11012-A-1	NSL1137-01		T	

Batch Comment: self witnessed

Metals Worksheet

Batch Number: 220-34525
Method: 3050B
Analyst: Voytek, Joseph F

Date Open: Dec 22 2009 9:38AM
Batch End: Dec 22 2009 1:00PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	MCAL2_00004	MEMS_00001	MLCS3_00004	MLCS4_00005
MB~220-34525/1		3050B, 6020		2.00 g	1000 mL				
LCS~220-34525/2		3050B, 6020		1.00 g	1000 mL	0.25 mL		0.25 mL	0.5 mL
220-11066-A-9	PBL-2-60-E(4') F.D.	3050B, 6020	T	2.07 g	1000 mL				
220-11066-A-10	PBL-2-30-N(10')	3050B, 6020	T	2.02 g	1000 mL				
220-11066-A-11	PBL-2-30-N(10') F.D.	3050B, 6020	T	2.05 g	1000 mL				
220-11066-A-12	PBL-2-60-N(11')	3050B, 6020	T	2.00 g	1000 mL				
220-11066-A-13	PBL-8-60-S(12')	3050B, 6020	T	2.04 g	1000 mL				
220-11091-A-1	O6/0-6		T	2.03 g	1000 mL				
220-11091-A-6	O6/6-14		T	2.00 g	1000 mL				
220-11091-A-11	O6/14-22		T	2.10 g	1000 mL				
220-11091-A-16	O6/22-30		T	2.09 g	1000 mL				
220-11091-A-21	N6/0-6		T	2.03 g	1000 mL				
220-11091-A-26	M6/0-6		T	2.01 g	1000 mL				
220-11091-A-31	O6/30-38		T	2.06 g	1000 mL				
220-11091-A-36	N6/6-14		T	2.02 g	1000 mL				
220-11091-A-41	N6/14-22		T	2.01 g	1000 mL				
220-11091-A-46	N6/22-30		T	2.03 g	1000 mL				
220-11091-A-51	N6/30-38		T	2.09 g	1000 mL				
220-11115-B-1	M6/6-14		T	2.03 g	1000 mL				
220-11115-B-6	M6/14-22		T	2.00 g	1000 mL				
220-11115-B-6~DU			T	2.00 g	1000 mL				
220-11115-B-6~MS			T	2.00 g	1000 mL	0.05 mL	0.1 mL	0.05 mL	
220-11115-B-11	M6/22-30		T	2.05 g	1000 mL				
220-11115-B-16	F5/0-3		T	2.09 g	1000 mL				

Metals Worksheet

Batch Number: 220-34525
Method: 3050B
Analyst: Voytek, Joseph F

Date Open: Dec 22 2009 9:38AM
Batch End: Dec 22 2009 1:00PM

Lab ID	Client ID	Method Chain	Basis	MNA_00005
MB~220-34525/1		3050B, 6020		
LCS~220-34525/2		3050B, 6020		0.625 mL
220-11066-A-9	PBL-2-60-E(4') F.D.	3050B, 6020	T	
220-11066-A-10	PBL-2-30-N(10')	3050B, 6020	T	
220-11066-A-11	PBL-2-30-N(10') F.D.	3050B, 6020	T	
220-11066-A-12	PBL-2-60-N(11')	3050B, 6020	T	
220-11066-A-13	PBL-8-60-S(12')	3050B, 6020	T	
220-11091-A-1	O6/0-6		T	
220-11091-A-6	O6/6-14		T	
220-11091-A-11	O6/14-22		T	
220-11091-A-16	O6/22-30		T	
220-11091-A-21	N6/0-6		T	
220-11091-A-26	M6/0-6		T	
220-11091-A-31	O6/30-38		T	
220-11091-A-36	N6/6-14		T	
220-11091-A-41	N6/14-22		T	
220-11091-A-46	N6/22-30		T	
220-11091-A-51	N6/30-38		T	
220-11115-B-1	M6/6-14		T	
220-11115-B-6	M6/14-22		T	
220-11115-B-6~DU			T	
220-11115-B-6~MS			T	
220-11115-B-11	M6/22-30		T	
220-11115-B-16	F5/0-3		T	

DigestionTubes:	A905LS269	Oven, Bath or Block Temperature 1:	92 Degrees C
Balance ID:	t2	Oven, Bath or Block Temperature 2:	94 Degrees C
Hood ID or number:	hood1		
Hot Block ID number:	hb2		
Lot # of hydrochloric acid:	WHCLACD-00012		
Lot # of Nitric Acid:	MNITRICACD-00008		
Hydrogen peroxide lot number:	HYDROPERO-00004		
ID number of the thermometer:	2k0511		
Analyst:	jv		
First Start time:	1015		
First End time:	1300		
Person's name who witnessed reagent drop:	self witnessed		

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Connecticut Job Number: 220-11066-1

SDG No.:

Project: Con Edison, Kent Avenue Generating

Client Sample ID	Lab Sample ID
PBL-5-10-E(4')	220-11066-1
PBL-5-2-W(7')	220-11066-2
PBL-5-5-N(6')	220-11066-3
PBL-5-10-N(5')	220-11066-4
PBL-5-10-S(2')	220-11066-5
PBL-1-30-E(9')	220-11066-6
PBL-1-30-E(9') F.D.	220-11066-7
PBL-2-60-E(4')	220-11066-8
PBL-2-60-E(4') F.D.	220-11066-9
PBL-2-30-N(10')	220-11066-10
PBL-2-30-N(10') F.D.	220-11066-11
PBL-2-60-N(11')	220-11066-12
PBL-8-60-S(12')	220-11066-13

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Connecticut Job Number: 220-11066-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Analysis Method: Moisture RL Date: 09/20/2005 16:02

Prep Method:

Leach Method:

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Connecticut

Job No.: 220-11066-1

SDG No.:

Instrument ID: NOEQUIP

Method: Moisture

Start Date: 12/16/2009 17:50

End Date: 12/16/2009 18:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
220-11066-1	1	T	17:50	X	X																		
220-11066-1 DU	1	T	17:50	X	X																		
220-11066-2	1	T	17:50	X	X																		
220-11066-3	1	T	17:50	X	X																		
220-11066-4	1	T	17:50	X	X																		
220-11066-5	1	T	17:50	X	X																		
220-11066-6	1	T	17:50	X	X																		
220-11066-7	1	T	17:50	X	X																		
220-11066-8	1	T	17:50	X	X																		
220-11066-9	1	T	17:50	X	X																		
220-11066-10	1	T	17:50	X	X																		
220-11066-11	1	T	17:50	X	X																		
220-11066-12	1	T	17:50	X	X																		
220-11066-13	1	T	17:50	X	X																		
ZZZZZZ			17:50																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Connecticut
Job No.: 220-11066-1
SDG No.:
Instrument ID: NOEQUIP
Method: Moisture
Start Date: 12/16/2009 17:50
End Date: 12/16/2009 18:06

				Analytes																			
Lab Sample ID	D/F	Type	Time	%Sol	Moist																		
ZZZZZZ			17:50																				
ZZZZZZ			17:50																				
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ZZZZZZ			17:50																				
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ZZZZZZ			18:06																				

Prep Types

T = Total/NA

General Chemistry Worksheet

Batch Number: 220-34360
Method: Moisture
Analyst: Capece, Bill

Date Open: Dec 16 2009 5:50PM
Batch End: Dec 17 2009 9:30AM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
220-11066-A-1	PBL-5-10-E(4')	Moisture	T	1.01 g	10.66 g	8.84 g
220-11066-A-1~DU		Moisture	T	1.00 g	10.49 g	8.57 g
220-11066-A-2	PBL-5-2-W(7')	Moisture	T	1.00 g	12.71 g	11.19 g
220-11066-A-3	PBL-5-5-N(6')	Moisture	T	0.99 g	9.37 g	8.27 g
220-11066-A-4	PBL-5-10-N(5')	Moisture	T	1.00 g	10.11 g	9.00 g
220-11066-A-5	PBL-5-10-S(2')	Moisture	T	0.98 g	12.97 g	11.89 g
220-11066-A-6	PBL-1-30-E(9')	Moisture	T	1.00 g	13.11 g	11.24 g
220-11066-A-7	PBL-1-30-E(9') F.D.	Moisture	T	1.04 g	12.75 g	11.48 g
220-11066-A-8	PBL-2-60-E(4')	Moisture	T	1.03 g	9.69 g	7.93 g
220-11066-A-9	PBL-2-60-E(4') F.D.	Moisture	T	1.00 g	11.83 g	9.30 g
220-11066-A-10	PBL-2-30-N(10')	Moisture	T	1.00 g	11.56 g	9.07 g
220-11066-A-11	PBL-2-30-N(10') F.D.	Moisture	T	1.00 g	10.32 g	8.47 g
220-11066-A-12	PBL-2-60-N(11')	Moisture	T	0.99 g	9.88 g	7.58 g
220-11066-A-13	PBL-8-60-S(12')	Moisture	T	1.00 g	9.41 g	7.88 g
220-11071-A-1	Non Haz Sample 003		T	1.02 g	12.98 g	11.52 g
220-11060-A-1	SB-01_0.0-2.0		T	1.03 g	9.11 g	8.27 g
220-11060-A-2	SB-01_10.0-12.0		T	1.02 g	9.03 g	5.33 g
220-11060-A-3	SB-01_35.0-37.0		T	1.01 g	8.66 g	5.57 g
220-11060-A-4	SB02_0.0-2.0		T	1.02 g	13.03 g	10.82 g
220-11060-A-4~DU			T	1.02 g	13.21 g	11.25 g
220-11060-A-5	SB-02_18.0-20.0		T	1.02 g	9.43 g	6.38 g
220-11060-A-6	SB-02_43.0-45.0		T	1.00 g	9.27 g	5.91 g
220-11060-A-7	SB-02DUP_43.0-45.0		T	1.00 g	9.34 g	6.10 g
220-11060-A-8	SB-03_0.0-2.0		T	1.00 g	10.36 g	9.41 g
220-11060-A-9	SB-03_6.0-8.0		T	1.03 g	10.37 g	5.85 g

General Chemistry Worksheet

Batch Number: 220-34360
Method: Moisture
Analyst: Capece, Bill

Date Open: Dec 16 2009 5:50PM
Batch End: Dec 17 2009 9:30AM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
220-11060-A-10	SB-04_0.0-2.0		T	1.02 g	10.39 g	7.81 g
220-11060-A-11	SB-04_13.0-15.0		T	1.03 g	12.21 g	8.23 g
220-11060-A-12	SB-04_38.0-40.0		T	0.99 g	10.63 g	7.56 g
220-11060-A-13	SB-05_0.0-2.0		T	1.01 g	10.82 g	7.45 g
220-11060-A-14	SB-05_10.0-12.0		T	1.02 g	9.98 g	7.37 g
220-11060-A-15	SB-05_28.0-30.0		T	1.02 g	11.24 g	7.62 g
220-11060-A-16	SB-05_38.0-40.0		T	1.03 g	11.02 g	7.94 g
220-11060-A-17	SB-06_6.0-8.0		T	1.02 g	13.91 g	8.99 g
220-11060-A-18	SB-06_18.0-20.0		T	1.01 g	11.49 g	6.81 g
220-11060-A-19	SB-07B_6.0-8.0		T	1.02 g	13.36 g	8.15 g
220-11060-A-20	SB-07B_15.0-17.0		T	1.02 g	9.94 g	6.42 g
220-11061-C-20	BP-6		T	1.00 g	13.82 g	10.52 g
220-11061-C-20~DU			T	1.02 g	13.82 g	10.68 g
220-11068-A-1	GWP-14A			1.00 g	10.72 g	10.53 g
220-11068-B-2	GWP-14B			1.01 g	8.99 g	8.43 g
220-11068-A-4	GWP-15A			0.98 g	9.12 g	8.80 g
220-11061-A-1	EXWAGT90-01-00		T	0.99 g	9.22 g	8.48 g
220-11061-A-2	EXWAGT90-02-00		T	1.00 g	11.69 g	10.76 g
220-11061-A-3	EXWAGT90-03-00		T	1.00 g	12.81 g	11.86 g
220-11061-A-4	EXWA13-01-10		T	0.99 g	8.20 g	6.57 g
220-11061-A-5	EXWA13-02-03		T	1.01 g	8.70 g	7.37 g
220-11061-A-6	EXWA13-03-02		T	1.01 g	11.97 g	9.93 g
220-11061-A-7	EXWA13-04-04		T	1.01 g	9.46 g	7.98 g
220-11061-A-8	EXWA13-05-05		T	1.00 g	13.78 g	12.40 g
220-11061-A-9	EXWA13-06-06		T	1.03 g	11.65 g	10.07 g

General Chemistry Worksheet

Batch Number: 220-34360
Method: Moisture
Analyst: Capece, Bill

Date Open: Dec 16 2009 5:50PM
Batch End: Dec 17 2009 9:30AM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
220-11061-A-10	EXWA13-07-06		T	1.02 g	11.42 g	8.82 g
220-11061-A-11	EXWA13-08-02		T	1.00 g	13.75 g	11.46 g
220-11061-A-12	EXWA1-33-01		T	1.02 g	10.53 g	9.06 g
220-11061-A-13	EX102A-01-02		T	1.02 g	10.76 g	9.67 g
220-11061-A-14	EXWA1-27-00		T	1.01 g	12.33 g	10.57 g
220-11061-A-15	EXWA1-34-03		T	1.01 g	9.16 g	8.36 g
220-11061-A-16	EXWA1-35-04		T	1.01 g	13.17 g	11.37 g
220-11061-A-17	EXWA3-01-01		T	1.00 g	9.16 g	6.78 g
220-11061-A-18	EXWA3-02-01		T	1.01 g	9.36 g	7.61 g
220-11061-A-19	EXWA3-03-01		T	1.01 g	9.39 g	7.79 g

Balance ID: t2 No Unit
Date samples were place in the oven: 12/16/09
Time samples were place in the oven: 1700
Oven Temp when samples are put in oven: 105 Degrees C
Date samples were removed from oven: 12/17/09
Time Samples were removed from oven: 0930
Oven Temp when samples removed from oven: 105 Degrees C
Oven ID: ov1

Shipping and Receiving Documents

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

01/07/2010

Client Contact: Saul Ash	**Field Sampler:** Erika Cozza	**TAT Required (business days):** 5 Day	**Lab PM/Contact:** JMD
Company: Shaw E&I	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 11066
Address: 101-1 Colin Drive	**E-Mail:** erika.cozza@shawgrp.com	**Deliverable Type (Report/EDD):**	**Passed Rad Screen (Lab Use Only):** [X] Yes [ ] No
City, State, Zip: Holbrook, NY 11741	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):** #1 @ 0.5 #2 @ 0.8 pdve
Phone: 631-472-4000	**WO #:**		
Email: saul.ash@shawgrp.com	**Project #:** 126649	**State Regulatory QC Criteria Requirements:**	**COC Number:** 10404
Project Name/Site Location (State): Kent Ave.	**SSOW#:**		**Page** 1 **of** 2
			Carrier Tracking Notes:

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

No. of Containers/Preservatives

Analysis (Attach list if more space is needed)

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOC 8260	BN 8270	TAL Metals	Comments
1	PBL-5-10-E(4')	12/14/09	1005	S		1								X	X	
2	PBL-5-2-W(7')	12/14/09	1215	S		1								X	X	
3	PBL-5-5-N(6')	12/14/09	1235	S		1								X	X	
4	PBL-5-10-N(5')	12/14/09	1245	S		1								X	X	
5	PBL-5-10-S(2')	12/14/09	1415	S		1								X	X	
6	PBL-1-30-E(9')	12/15/09	910	S		2							X	X	X	
7	PBL-1-30-E(9') F.D.	12/15/09	910	S		2							X	X	X	
8	PBL-2-60-E(4')	12/15/09	1120	S		2							X	X	X	
9	PBL-2-60-E(4') F.D.	12/15/09	1120	S		2							X	X	X	
10	PBL-2-30-N(10')	12/15/09	1200	S		2							X	X	X	

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	12/15/09 1513	SHAW		12/15/09 1513	TAL CT
Relinquished by:	12/15/09 1900	TAL CT		12/15/09 1900	TAL CT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

Page 1462 of 1468

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

01/07/2010

Client Contact: Saul Ash	**Field Sampler:** Erika Cozza	**TAT Required (business days):** 5 Day	**Lab PM/Contact:** JMD	**COC Number:** 10405
Company: Shaw Esl	**Mobile/Field Number:** 914-490-3252		**Lab Job Number (Lab Use Only):** 110066	**Page** 2 of 2
Address: 101-1 Colin Drive	**E-Mail:** erika.cozza@shawgrp.com	**Deliverable Type (Report/EDD):**		**Carrier Tracking**
City, State, Zip: Holbrook, NY 11741	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Passed Rad Screen (Lab Use Only):** [ ] Yes [ ] No	**Notes:**
Phone: (631-472-4000	**WO #:**		**Cooler Temperatures (Lab Use Only):** #1@0.5 #2@0.8 pole	
Email: Saul.ash@shawgrp.com	**Project #:** 126649	**State Regulatory QC Criteria Requirements:**		
Project Name/Site Location (State): Kent Ave.	**SSOW#:**			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	Analysis (Attach list if more space is needed): VOC 8260	BN 8270	TAL Metals	Comments
11	PBL-2-30-N(10') F.D.	12/15/09	1200	S		2							X	X	X	
12	PBL-2-60-N(11')	12/15/09	1215	S		2							X	X	X	
13	PBL-8-60-S(12')	12/15/09	1230	S		1								X	X	
14	FB-1	12/14/09	1500	Aq		2		1	2				X	X	X	
15	FB-2	12/15/09	1425	Aq		2		1	2				X	X	X	
16	FB-3	12/15/09	1500	Aq		2		1	2				X	X	X	

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	12/15/09 1315	Shaw		12/15/09 1513	TAL CT
Relinquished by:	12/15/09 1900	TAL CT		12/15/09 1900	TAL CT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number: 220-11066
Client: Shaw
Client Project:

Lab Number	Preservative	pH	Adjustment (mLs)	pH after Adjustment	Preservative Lot Number	Initials	Date
11066 14	HNO3	<2	NA	NA	NA	MA	12-15-09
↓ 15	↓	<2	↓	↓	↓	↓	↓
11066 16	HNO3	<2	NA	NA	NA	MA	12-15-09

Login Sample Receipt Check List

Client: Shaw Environmental & Infrastructure, Inc

Job Number: 220-11066-1

Login Number: 11066

List Source: TestAmerica Connecticut

Creator: Cedeno, Jorge

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5C/0.8C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	AMBER BOTTLES ARE NOT FULL
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica - Connecticut
Internal Chain-of-Custody

220-11066
Shaw

Trip Blank:

QC: ~~Air:~~

FB:

48hour
~~RT~~

Date Received: 12-15-09

Sample #s: 1-16

Soil: #1-13 Water: #14-16

Locations: A8, R26, 92, R-1-D

Laboratory Sample #	Signature-Sample Removal	Date	Time	Reason	Signature-Sample Return	Date	Time
14-16		12/16/09	9:55	EXT			
5-13		12/16/09	1050	MTR		12/16/09	12:25
1-12	JC	12/16/09	15:15	EXT	JC	12/16/09	16:20
13	JC	12/16/09	16:50	EXT	JC.	12/16/09	16:55
1-13	BC	12/16/09	17:30	MTL	BC	12/16/09	19:00
14-16		12/17/09	10:15	MTR		12/17/09	12:10
~~14~~	MC	12/21/09	9:40	MTR	MC	12/21/09	10:25
1-8	BC	12/21/09	10:30	MTL	BC	12/21/09	16:00
14-16		12/21/09	10:50	MTR		12/21/09	13:25
14-16		12/21/09	17:20	VOA			
9-13	MC	12/22/09	9:20	MTR	MC	12/22/09	10:05
6		12-22-09	16:12	EXT		12-22-09	10:47
6-12		12/23/09	19:50	VOA		12/23/09	20:30

JOB NO: 220 - 11066

Fraction: (BNA) / Pesticide-PCB / Herbicide / O/P Pesticide / DRO / CT ETPH / Other
(Circle one)

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1-12	12/17/09	12:00	J-C-	36					
13	12/17/09	14:50	JC	36					
14-16	12/17/09	20:00	JC	36					
6	12/22/09	13:35	JC	36					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
1-12	12/17	12:00	AN	SJ	12/17	14:00	36	SJ
11-16	12/18	7:00	AN	SJ	12/18	9:30	36	SJ
14-16	12/21	7:00	AN	SS	12/21	11:00	36	SS
6	12/23	7:00	AN	SS	12/23	9:30	36	SS

Codes: SC = Screening AN = Analysis

Verified By: MS Date: 12/23/09

Lab Form: SMF01203.CT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA CONNECTICUT - CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number: 11066 Sample Numbers: 5-13, 14-16, 1-4

Prep Batch Number: 34334, 34373, 34494, 34475, 34525, 34466

WATER - SOIL - SLUDGE - TCLP/SPLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the transfer of these digestates to the metals instrument lab.:

Sample Prep:

Analysts — 12/21/09 Date(s) ICP

Analysts — 12/17/09 Date(s) Mercury

I confirm that I have performed the analysis below following SOP guidelines:

Analysis:

Analysts — 12/28/09 Date(s) ICP

Chemist — 12/17/09 Date(s) Mercury

I have reviewed and authorized the release of the job:

Complete: Supervisor — 12/28/09 Date

QAF02602.CT