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February 2, 2012

Ms. Lynda Deschambault
Remedial Project Manager
U.S. Environmental Project Manager Agency-Region IX
75 Hawthorne Street (SFD-7-1)
San Francisco, CA 94105

Re: December 2011 Short Term Mitigation Air Sampling Report Submittal,
Omega Chemical Superfund Site, Whittier, California

Dear Ms. Deschambault:

Enclosed is the December 2011 Short Term Mitigation Air Sampling Report submittal for the Omega Chemical Superfund site. This report contains a summary of results of indoor air sampling conducted in December 2011 as well as information related to the Subslab Depressurization (SSD) and Interim Soil Vapor Extraction (ISVE) Systems for the Fourth Quarter 2011. This data submittal is being transmitted in accordance Task 1 of Administrative Settlement Agreement and Order on Consent/Statement of Work (AOC/SOW), which became effective on November 9, 2009.

Should you have any questions, regarding the above, please contact me.

Sincerely,
Omega Chemical Site PRP Organized Group

Edward Modiano
Project Coordinator

cc: Matt Salazar, USEPA
Tom Perina, CH2MHIL
Dave Chamberlin, CDM
Sharon Wallin, CDM
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CDM Smith
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February 1, 2012

Mr. Ed Modiano
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92107

Subject: Short Term Mitigation Air Sampling Report for December 2011
Omega Chemical Superfund Site
CDM Smith Project No: 10500-76051.OSS.IAQ
CDM Smith File No: 10500-5.2.3

Dear Mr. Modiano:

On behalf of the Omega Chemical Site PRP Organized Group (OPOG), CDM Smith Inc. (CDM Smith) is submitting this Short Term Mitigation Air Sampling (STMAS) Report for the December 2011 sampling event. This report includes the analytical results for the monthly and quarterly indoor air quality (IAQ) sampling, describes short-term mitigation measures in place, any changes or alterations, dates of operation, and recommended changes. Also, this report includes building conditions, laboratory reports, sample location maps, and tabulated analytical results. This report also includes a summary of the interim soil vapor extraction (ISVE) and sub-slab depressurization (SSD) systems for the 4th Quarter 2011 (October 1 through December 31). This report was prepared in accordance with the Administrative Settlement Agreement and Order on Consent (AOC) for the Removal Action, which was effective November 9, 2009.

Sampling Date, Locations Sampled, Number of Samples

December 21, 2011 monthly and quarterly indoor air quality sampling. All samples were sent to Air Toxics Ltd. for analysis. Three additional samples were collected as split samples for confirmatory analysis at a second laboratory (Air Technology Laboratories [AirTech]). The Terra Pave and Bishop properties are currently sampled on a quarterly basis, and the Regional Occupational Program (ROP) and Fred R. Rippy (FRR) properties are sampled on a monthly basis.

- Terra Pave (four samples, includes one split sample to Air Tech)
  - TP1 = First Floor Reception Area – two samples (includes split sample)
  - TP2 = Second Floor Office – one sample

- TP3 = Maintenance Shop – one sample

- Bishop Co. (four samples, includes one duplicate to Air Toxics)
  - B1 = First Floor Reception/Office Area –two samples (includes duplicate)
  - B2 = Interior Store – one sample
  - B3 = Warehouse – one sample
- ROP (six samples, including one split sample to Air Tech)
  - ROP1 – Office (Room 207) – two samples (including split sample)
  - ROP2 – Classroom (Room 104) – one sample
  - ROP3 - Office (Room 108) – one sample
  - ROP4 - Dental Annex - Lobby/Computer Area - one sample
  - ROP5 - Dental Annex - Classroom - one sample
- FRR (four samples, including one duplicate to Air Toxics)
  - FRR1 - First floor office – two samples (including duplicate)
  - FRR2 - Production Area – one sample
  - FRR3 – Warehouse – one sample
- Ambient Air (13 samples, includes one duplicate to Air Toxics and one split sample to AirTech)
  - AA1 = Exterior fence between Terra Pave and Madsen – one sample
    Terra Pave employees were painting signs nearby during the day.
  - AA3A – Southwest corner of loading dock of former Merchants Metals– one sample
  - AA8 - Exterior fence between parking lots near Dental Annex - two samples (including split sample)
    Note: There were ongoing construction activities (tractor and backhoe for ISVE treatment pad) during the day near AA8.
  - AA11 – Rooftop of ROP on the southeastern corner of the building - one sample

- AA13 – Rooftop of ROP on the northeastern corner of the building - one sample
- AA16 – Rooftop of Women's and Children's Crisis Shelter (WCCS) on the southern side of the building – one sample
- AA22 - Rooftop of WCCS in the center of the roof on the northern side of the building - one sample
- AA34 – Placed in tree on the lawn east of the Star City building – one sample
- AA-35 – Placed on the lawn east of the Former 3 Kings building – two samples (includes duplicate)
- AA36 – Placed in tree on the lawn east of the former Skateland building – one sample
- AA37 – Placed in a tree in Kaiser parking lot near the northwest corner of Medlin & Sons – one sample

There was no noticeable wind at the ambient air rooftop locations during canister placement and a slight south/ southeastern wind during the day.

Samples were not collected at WCCS during this sampling event, as the building is vacant.

Figures 1 through 4 identify and illustrate the indoor air sampling locations at Bishop and Terra Pave; Figure 5 identifies and illustrates the indoor air sampling locations at ROP. Figure 6 identifies and illustrates the indoor air sampling locations at FRR. Figure 7 presents the ambient air samples locations. Figures are presented in Attachment A.

Building Conditions

Terra Pave

- The Terra Pave machine shop is no longer occupied. The maintenance shop has been mostly emptied and only minimal equipment remains. However, a truck was parked in the warehouse and workers were working just outside of the machine shop on the day of the sampling.
- The first floor office has been furbished as a receptionist/lobby area. The front door and windows were closed. The door to the break room was open throughout the day. The office was unoccupied during sample placement and occupied during sample retrieval.
- The second floor office space was not in use. All doors to the office were closed during sampling. The window to the office where the canister was placed was open approximately three inches.

- The rollup door and the side door were open during canister placement and retrieval in the maintenance shop.

- The ventilation system in the office building does not operate 24 hours a day/seven days a week. The HVAC system serving the first floor was operating during the December 21, 2011 sampling event, however the HVAC system was not operating in the second floor space.

Bishop

- The windows and doors were closed in the office building. The door from the office building to the warehouse was closed.

- The front office/reception area was unoccupied during sample placement.

- The front and rear rollup doors were open in the warehouse.

- The ventilation system fans were operating during the time of sampling. The ventilation system fans operate 24 hours a day, seven days a week.

ROP

- The ventilation system fans were operating during the time of sampling at the ROP and the Dental Annex. The ventilation system fans operate 24 hours a day, seven days a week.

- The SSD system was in operation at the time of sampling, and is routinely operated 24 hours a day, seven days a week.

- The building's windows are sealed and cannot be opened.

- The door to Room 207 was open throughout the day. The office was occupied during sample placement and throughout the day.

- The door to Room 104 was closed and the room was not occupied during sample placement and retrieval.

- The door to Room 108 was closed and the office was unoccupied during sample placement. The door was open and the office was occupied during sample retrieval.

- The doors and windows were closed during sample placement and retrieval in the Dental Annex computer room/lobby area. The doors to the inner offices in the computer room/lobby area were open during sampling placement and retrieval. The room was not in use during sample placement and retrieval.

- The door to the training area classroom at the Dental Annex was open during canister placement and retrieval. The room was not occupied at sample placement and was occupied at sample pickup throughout the day and during sample retrieval.

FRR

- The HVAC system operates all day in the front office.
- The doors and windows to the production area and outside were closed throughout the day in the front office.
- Roll up doors in the production area were open during the day but closed at the time of sample placement and retrieval. Overhead windows were closed throughout the day. Compressed oxygen and nitrogen tanks are located in this area.
- The warehouse doors to the outside were open during sample placement and retrieval. A propane (20 lb tank) powered, two-burner floor heater located in the warehouse was not operated during the day. A propane powered forklift was used in the area throughout the day.

Short Term Mitigation Measures in Place

- Indoor and ambient air sampling continues on a monthly basis at the ROP building. As requested by EPA, monthly sampling is also being performed at the FRR property.
- As requested, the purifiers at Bishop were shut off by the property owner on October 21, 2010. As discussed in prior STMAS reports, based on operation of the interim soil vapor extraction (ISVE) system and review of indoor air analytical results, operation of the air purifiers is no longer necessary.
- As requested, the Terra Pave air purifiers were shut off by the property owner in May 2010. As noted above, based on operation of the ISVE system and review of indoor air analytical results, operation of the air purifiers is no longer necessary.

Indoor Air Analytical Results

As briefly described above, monthly IAQ samples were collected from ROP and FRR buildings and quarterly IAQ samples were collected from Bishop and Terra Pave buildings on December 21, 2011. Table 1 in Attachment B presents the analytical results. The following provides a brief summary of these sampling results. Results are compared to EPA's Health Protective Screening Criteria (Tables 2 through 4).

Bishop

The PCE concentrations in the administration office (0.49 micrograms per cubic meter, [ug/m^3] [field duplicate result was 0.47 ug/m^3]), warehouse (0.45 ug/m^3), and the interior store (0.65 ug/m^3) in December remained below the long-term health protective screening criteria of 2.1 ug/m^3. Based on these data, it appears that the operation of the ISVE system has been effective at improving indoor air conditions. PCE was detected in the ambient air sample collected from the fence between Terra Pave and Madsen Roofing at a concentration of 0.43 ug/m^3 during the December sampling event.

Terra Pave

PCE concentrations in the first floor reception/lobby area (0.74 ug/m^3 [split sample result was 1.3 ug/m^3]), the second floor office (0.53 ug/m^3) and the maintenance shop (0.46 ug/m^3) were below the long-term health protective screening criteria of 2.1 ug/m^3 in December. Based on these data, it appears that the operation of the ISVE system has been effective at improving indoor air conditions. PCE was detected in the ambient air sample collected from the fence between Terra Pave and Madsen Roofing at a concentration of 0.43 ug/m^3 during the December sampling event.

ROP

The PCE concentrations in Room 108 (1.3 ug/m^3), Room 104 (0.98 ug/m^3), Room 207 (1.3 ug/m^3 [split sample result was 1.3 ug/m^3]), Dental Annex Classroom (1.3 ug/m^3), and the Dental Annex Lobby/Computer Area (1.0 ug/m^3) were below the long-term health protective screening criteria of 2.1 ug/m^3 during the December sampling event. PCE was detected at a concentration of 0.71 ug/m^3 (split sample result was 0.59 ug/m^3) in the ambient air sample collected from the parking lot near the Dental Annex during the December sampling event.

During this sampling event, two ambient air samples were also collected from the roof of the ROP building. The PCE concentrations from the rooftop ambient air samples were as follows: 0.90 ug/m^3 in the northeast corner of the ROP rooftop and 0.67 ug/m^3 in the southeastern corner of the ROP rooftop.

FRR

PCE concentrations in the front office (35 ug/m^3 [field duplicate result was 35 ug/m^3]), the production area (17 ug/m^3), and the warehouse (11 ug/m^3) were above the long-term health protective screening criteria of 2.1 ug/m^3. PCE was detected at a concentration of 0.71 ug/m^3 (split sample result was 0.59 ug/m^3) in the ambient air sample collected from the parking lot near the Dental Annex during the December sampling event.

During this sampling event, two ambient air samples were also collected from the WCCS rooftop. The PCE concentrations from the rooftop ambient air samples were as follows:

1.1 ug/m^3 in the southern side of the rooftop and 1.3 ug/m^3 in the center of the roof on the northern side of the building.

Additionally, several other ambient air samples were collected during this event. The PCE concentration from the ambient air sample on the southwest corner of the loading dock at the former Merchants Metals building was 0.50 ug/m^3. The PCE concentration from the ambient air sample in the Kaiser parking lot was 0.34 ug/m^3. The PCE concentration from the ambient air sample on the grassy median across from the driveway to Star City was 0.32 ug/m^3. The PCE concentration from the ambient air sample on the grassy median across for the former 3 Kings building was 0.36 ug/m^3 (field duplicate was 0.30 ug/m^3). The PCE concentration from the ambient air sample on the grassy median east of the former Skateland building was 0.30 ug/m^3.

Graphs illustrating PCE and TCE concentrations over time at the Bishop, Terra Pave, ROP, and FRR properties are provided in Attachment C.

Data Validation

Formal data validation was performed on the analytical results for the 28 samples analyzed by Air Toxics using the Level 4 data package provided by the laboratory. Laboratory reports are presented in Attachment D with the validation report. Following validation, the project's analytical Access database was updated (including any data validation flags, if needed) and the attached summary table (Attachment B, Table 1) was generated. As discussed in the data validation memo, three field duplicate samples were collected during this event. The field duplicate of sample IAQ-B1-122111 (First Floor Reception/Office Area) had a 4.17 percent variation from the original sample for PCE (0.49 ug/m^3 in the original sample and 0.47 ug/m^3 in the field duplicate). The field duplicate of sample IAQ-FRR1-122111 (First floor office) had a 0.0 percent variation from the original sample for PCE (35 ug/m^3 in both the original sample and field duplicate). The field duplicate of sample IAQ-AA35-122111 (grassy median east of the Former 3 Kings building) had a 18.18 percent variation from the original sample for PCE (0.36 ug/m^3 in both the original sample and 0.30 ug/m^3 in the field duplicate).

Three samples were submitted to a second laboratory (AirTech) as confirmatory split samples. Results for the split sample for location IAQ-TP1-122111 (First Floor Reception Area) had 54.90 percent variation from the original sample for PCE (0.74 ug/m^3 in the original sample and 1.3 ug/m^3 in the split sample). Therefore, the PCE results for IAQ-TP1-122111 were qualified as estimated (flagged with a "J") due to field duplicate imprecision. Results for the split sample for location IAQ-ROP1-122111 (Room 207) had 0.0 percent variation from the original sample for PCE (1.3 ug/m^3 in both the original sample and the split sample). Results for the split sample for location IAQ-AA8-122111 (Exterior fence between parking lots near Dental Annex) had 18.46 percent variation from the original sample for PCE (0.71 ug/m^3 in the original sample and 0.59 ug/m^3 in the split sample).

The results for the split samples and field duplicate samples varied for several of the other detected compounds and are further discussed in the validation report in Attachment D.

Interim SVE System Operation

As part of the interim measures, an Interim Soil Vapor Extraction (ISVE) system was installed and began operation in June 2010. In September and October 2010, three additional vapor extraction wells (VEWs), two vapor monitoring probes (VMPs), and the corresponding piping conveyance were installed to expand the ISVE system. Initial testing of the new VEWs was performed in January and February 2011. In April 2011, the capacity of the treatment system was increased (a 1,000 cubic feet per minute [cfm]-rated blower was installed to replace the previous blower), and the new VEWs were brought online. In August 2011, the carbon adsorption vessels in the treatment system were changed from two 8,000 lb vessels to two 4,000 lb vessels to adjust for the significantly decreased influent concentrations. Figure D1 provides a plan view of the VEWs, VMPs, the conveyance piping, and the treatment plant.

This ISVE data reporting and analysis section covers the reporting period from October 1, 2011 to December 31, 2011. The following tables and figures are included in Appendix D:

- Table D1 –VMP Monitoring Data Summary - presents vacuum and photoionization detector (PID) data from all of the vapor monitoring probe (VMP) locations.
- Table D2 – VEW Monitoring Data Summary - presents vacuum, flow, PID data, and other operating conditions at all of the VEWs.
- Table D3 – System Performance Monitoring - System Results - presents a summary of the system performance data, including key events, flow rates, PID data, removal efficiency, and other operating conditions.
- Table D4 – GAC Analytical Results - presents VOC analytical data from samples collected from the influent to the primary granular activated carbon (GAC) vessel, between the GAC vessels, and the treatment system effluent.
- Table D5 – System Performance Monitoring - Cumulative Mass Removal - presents the cumulative mass removal of all constituents detected during system operation.
- Table D6 – Overall Cumulative Mass Removal – presents a summary of VOC mass removal from the Site during the pilot test, the extended pilot test, and the operation of the ISVE System.
- Table D7 – VEW and VMP Analytical Results - presents VOC analytical data from samples collected from VEWs and VMPs.

- Figure D1 - Plan View of Extraction Wells, Treatment Plant, and Conveyance Piping Routing - shows a site map with locations of VEWs, VMPs, and the treatment compound.
- Figure D2 – Piping and Instrumentation Diagram - presents a graphical depiction of the treatment process, including piping, vessels, and sample ports.
- Figure D3 – ISVE Influence Coverage Map - shows the spatial distribution of vacuum data observed at the VMPs.
- Figure D4 – VOC concentration Trends at VEWs - presents historical VOC concentrations at VEWs over time.
- Figure D5 –Vapor Extraction Rates at VEWs - presents historical VEW flow rate data over time.
- Figure D6 – ISVE Influent – Select Chlorinated VOCs Concentrations - presents the chlorinated VOC concentrations measured at the influent to the carbon vessels over time.
- Figure D7– ISVE Influent – Select Non-Chlorinated VOCs Concentrations - presents the non-chlorinated VOC concentrations measured at the influent to the carbon vessels over time.
- Figure D8 –ISVE Cumulative VOC Mass Removal - demonstrates estimated cumulative mass removal by the ISVE System.

Analysis and discussion of these data are presented below.

Vacuum Measurements

The extent of influence is defined as the area where the vacuum produced by the ISVE system is observed. Vacuum data collected during the reporting period are presented in Table D1 and Figure D3.

The October 17, 2011 data show that 27 out of 32 VMPs exhibited a vacuum. This suggests a coverage area that encompasses most of the target treatment area. With the exception of VMP-3, all of the VMPs not exhibiting vacuum influence are located away from the extraction wells where less vacuum influence is to be expected. VMP-3's screen interval depth (40 to 45 feet below ground surface [bgs]) is relatively deep when compared to the VEWs, which have screen intervals of either 12 to 22 feet bgs or 20 to 30 feet bgs. Also, the screen interval of VMP-3 is below the less permeable '30-ft Unit', so less vacuum is not surprising. The lack of vacuum at VMP-3 may be attributable to the difference in depths of screen interval between VMP-3 and its closest VEWs. In addition, historical vacuum data from VMP-3 have not been consistent since January 2011.

The November 21, 2011 data show that 25 out of 32 VMPs exhibited a vacuum. This suggests a coverage area that encompasses almost the entire target treatment area. With the exception of VMP-3 and VMP-5, all of the VMPs not exhibiting vacuum influence are located away from the extraction wells where less vacuum influence is to be expected. The lack of vacuum at VMP-3 may be attributable to the same reason as stated for the October 17, 2011 event. Vacuum at VMP-5 has exhibited vacuum historically, but the previous observed vacuum readings were relatively low. Similar to VMP-3, the low vacuum at VMP-5 may be attributed to its deep screen compared to the nearest extraction well and placement below the '30-ft Unit'.

The December 20, 2011 data show that 26 out of 32 VMPs exhibited a vacuum. This suggests a coverage area that encompasses almost the entire target treatment area. With the exception of VMP-3 and VE-3M, all of the VMPs not exhibiting vacuum influence are located away from the extraction wells where less vacuum influence is to be expected. The lack of vacuum at VMP-3 may be attributable to the same reason as stated for the October 17, 2011 event. VE-3M has exhibited vacuum historically and the lack of vacuum observed on December 20, 2011 is likely temporary. The vacuum at VE-3M will be monitored closely in the first quarter of 2012.

Vapor Concentration, Flow Rate Analysis, and Mass Removal Estimates

The ISVE system operated at an average of 891 standard cubic feet per minute (SCFM) at 6.1 inches of mercury during the reporting period, measured at the influent of the GAC adsorbers.

As expected, concentrations at most of the VEWs have been declining since system startup (Figure D4). All VEWs that have been in operation since the ISVE system started have experienced a greater than 99 percent decline in Total VOC influent concentration. Concentrations at VE-8S rebounded in November, which shows potential for more mass removal in the VE-8S vicinity. The expansion VEWs (VE-6S, VE-14S, and VE-15S) have been in operation since May 2011, and according to analytical data in December 2011, the decline in influent concentrations from these VEWs since expanded operation began are 99 percent (VE-6S), 76 percent (VE-14S), and 74 percent (VE-15S). Flows from the original VEWs have remained relatively stable during the reporting period. Flow from the expansion extraction well VE-15S has increased steadily from 35 SCFM to 130 SCFM since the beginning of November, while flow from VE-6S fluctuates intermittently between 108 to 245 SCFM. Flows from VE-14S have remained relatively stable during the reporting period. Average flow rates during this reporting period ranged from 39 (VE-14S) to 214 SCFM (VE-6S) (Table D2 and Figure D5).

Concentrations of selected constituents, measured at the influent to the GAC vessels, have also been declining since system startup (Figures D6 and D7). The total VOC concentration at the GAC vessels influent has dropped from 350,000 parts per billion by volume (ppbv) on June 9, 2010 to 5,200 ppbv (a 98.5 percent decline) on December 19, 2011. The concentrations observed during the reporting period matches the decreasing historical trend.

System flow rate and extracted soil vapor concentration data were used to estimate the amount of mass removed from the site. Estimates were based on analytical data when available, and interpolations of analytical data for periods during which no samples were collected. These estimates shows that as of December 29, 2011, after the ISVE system had run for a total of 11,096 hours, a total of approximately 5,283 pounds (lbs) of VOC mass had been removed by this system. The estimated removed mass included 4,190 lbs of tetrachloroethene (PCE), 420 lbs of Freon 113, 224 lbs of 1,1-dichloroethene (1,1-DCE), 185 lbs of trichloroethene (TCE), and 76 lbs of chloroform (CF). Other compounds removed in smaller quantities included vinyl chloride (VC), 1,1,1,-trichloroethane (1,1,1-TCA), 1, 1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), methylene chloride (MC), Freon 11, Freon 12, carbon disulfide, benzene, toluene, xylenes, methyl ethyl ketone (MEK), and isopropanol. Table D3 presents the ISVE system operating conditions and removal efficiencies of the GAC vessels. Table D4 lists the analytical data from samples collected at the influent to the GAC vessel, in between the GAC vessels, and at the effluent of the GAC vessels. Table D5 includes the estimated cumulative mass removal total for each constituent detected during system operation. Figure D8 presents the cumulative mass removal since system startup.

As of December 29, 2011, approximately 6,515 lbs of VOCs have been removed since vapor extraction began several years ago with SVE pilot tests. This estimate includes VOC mass removed during the SVE pilot test, the extended SVE pilot test, and the current ISVE operation. Table D6 summarizes total cumulative mass removal during each phase.

Treatment Efficiency and Compliance

Vapor treatment in the ISVE system operated in compliance with SCAQMD requirements that are documented in the application for the permit to operate the ISVE System. These conditions include operating status, maintenance and monitoring requirements, sampling requirements, GAC treatment efficiency requirements, and emission concentration limits. The SCAQMD requirements were revised in June 2011 based on modified operation parameters due to the ISVE system upgrade in April 2011. The following paragraphs describe compliance of the ISVE system with the proposed permit conditions.

One of the revised permit conditions is that the total flow rate at the inlet to the GAC adsorbers shall not exceed 1,000 SCFM. System influent flow has stayed below 1,000 SCFM since the system upgrade in April, 2011. All periodic maintenance, monitoring, and sampling requirements stated in the revised permit conditions have been met.

The adsorption efficiency requirement from the revised permit conditions is 90 percent removal compared to influent concentrations, as measured at the effluent of the primary adsorber vessel (lead vessel) and 99 percent removal, as measured at the system effluent. If adsorption efficiency of 90 percent is not met at the lead vessel effluent, the proposed condition requires that the system be shut down and the GAC replaced. Adsorption efficiency of less than 90

percent by the lead vessel was observed on November 21 (89 percent based on PID measurement) and December 5, 2011 (84 percent based on PID measurement). Analytical results showed that adsorption efficiency on November 7, 2011 was also below 90 percent (82.1%). The system was shut down on December 12, 2011. On December 17, 2011, carbon changeout of the lead vessel was performed. The lead and lag vessel were then swapped and the system was restarted on the same day. Removal efficiencies of the GAC vessels based on both PID and analytical data are presented in Table D3. Analytical results are presented in Table D4.

Adsorption efficiency of 99 percent by the lead and lag vessels combined was not met from November 7 to December 5, 2011, based on PID data. Analytical results also showed that the total adsorption efficiency of the two vessels was below 99 percent on October 10 and November 7, 2011. The system was shut down from December 12 to December 17, 2011. Carbon change out was performed on December 17, 2011.

The outlet of the secondary GAC absorber (lag vessel) is not to exceed 8.9 part per million by volume (ppmv) based on PID according to the revised permit conditions. The outlet of the lag vessel was within the limit of 8.9 ppmv during all monitoring events within the reporting period.

Emission concentration limits (emission limits) for various constituents from the revised permit conditions are presented in Table D4. These revised emission limits were set based on estimated data to comply with SCAQMD established health risk thresholds of cancer risk probability of less than ten in a million, chronic risk index of less than one, and acute risk index of less than one. None of the constituents had concentrations that were above the emission limit based on the analytical data from the October 10, November 7, and December 19, 2011 monitoring events. Analytical data from samples collected from the effluent of the GAC vessels are presented in Table D4. Emission limits and analytical data are all included in Table D4.

Sub-Slab Depressurization Systems Operation

This section presents an evaluation of field data and analytical results and a discussion of the performance of the sub-slab depressurization (SSD) systems. The following tables and graphs summarize and present the data for the reporting period:

- Table E1 – SSD Blower Monitoring Data Summary – presents flow, vacuum, and photoionization detector (PID) data from all of the SSD blowers / Suction pits (SSDB).
- Table E2 – SSD VMP Monitoring Data Summary – includes vacuum data at all of the SSD VMPs.
- Table E3 – SSDB Analytical Results – lists analytical data from each of the samples collected from SSDB effluent.

- Table E4 – SSD Vapor Treatment Monitoring Data Summary – includes vapor flow characteristics and PID data at each sampling port in the roof top vapor treatment system.
- Table E5 - SSD Vapor Treatment Analytical Results – lists analytical data from each of the analytical samples collected around the roof top vapor treatment system.
- Figure E1 – Sub-Slab Depressurization Systems Site Plan and Performance – provides the vacuum data at each of the suction pit and VMP locations.
- Figure E2 – As-Built Schematic Sub-Slab Depressurization Details – is a figure from the As-Built Report of the Sub-Slab Depressurization for Soil Gas Treatment at WCCS and ROP Buildings that shows sections of various SSD implementation at the site and a roof plan view showing the layout of the treatment system for vapors from SSDB-8 and SSDB-17.

SSD Systems Installation and Startup

In July and August 2010, the SSD systems were installed in the WCCS and ROP buildings. The systems consist of SSDBs installed around WCCS/ROP buildings to induce a downward pressure gradient beneath the building slabs to prevent vapor intrusion into the building and sub-slab vacuum monitoring points (VMPs). The system began operation on August 11, 2010, and new SSDBs have been brought online as they have been installed.

In December 2010, the SSD systems in the WCCS building were modified to include three additional SSD blower/suction pits and three VMPs. An expansion of the systems was completed during the period from March 2 to March 10, 2011, to further induce a downward pressure gradient beneath the building slabs. Four new VMPs were installed within the ROP building, SSDVMP-14 through SSDVMP-17. Five new suction pits were installed within the ROP building, SSDB-12 through SSDB-16. One existing VMP in the Dental Annex of the ROP building, SSDVMP-10, was converted to a suction pit, SSDB-18. One new VMP, SSDVMP-18, was also installed at the Dental Annex. One new suction pit, SSDB-17, and one new VMP, SSDVMP-19, were installed within the WCCS building.

In April and May 2011, the exhaust piping from SSDB-8 and SSDB-17 were plumbed together into a header connected to a knock out pot and two GAC vessels, connected in series, to provide treatment of the extracted vapors. This expanded treatment system began operation on May 6, 2011.

The SSD systems at the former WCCS operated normally until December 20, 2011, at which time the systems were shut-down. The shut-down was approved by EPA since WCCS had vacated the premises on September 30, 2011 and the building was unoccupied.

Figures E1 and E2 present the Site Plan and a cross section of the SSD System. Figure E2 also shows the roof site plan of the installed treatment system for treatment of vapors from SSDB-8 and SSDB-17.

Samples were taken periodically from SSDB-8, SSDB-17, GAC vessel influent, between the two GAC vessels, and GAC vessels effluent throughout the reporting period until those systems were turned off. All analytical results are presented in Table E3. The vapor treatment system for SSDB-8 and SSDB-17 had been monitored weekly during the reporting period. The data during these monitoring events are presented in Table E4.

SSD Vacuum Influence

Vacuum measurements were collected at SSDB-1 through SSDB-18 and at SSDVMP-1 through SSDVMP-7, and SSDVMP-11 through SSDVMP-19 locations on December 14, 2011. Vacuum data of the SSDBs and SSDVMPs are presented in Tables E1 and E2, respectively, in Attachment E. Analytical data from the SSDVMPs and SSDBs are presented in Table E3. Figure E1 shows the vacuum distribution at the VMP locations.

ROP

There are 11 SSDBs and 11 SSDVMPs in the ROP Building (excluding the Dental Annex). Data from December, 2011, indicate that vacuum influence varies across the ROP building and ranges from 0.045 inches of water (SSDVMP- 17) to 0.29 inches of water (SSDVMP-03).

On December 14, 2011, the SSDBs in ROP Building exhibited vapor flow ranging from 38 SCFM (SSDB-13) to 165 SCFM (SSDB-15), vacuum readings from 1.09 inches of water (SSDB-1) to 2.06 inches of water (SSDB-5), and PID readings from 0.4 ppmv (SSDB-4) to 5.6 ppmv (SSDB-14). Eleven analytical samples were collected from SSDBs at ROP on December 14, 2011, with total VOC concentration ranging from 39 to 530 ppbv.

Dental Annex

SSDB-7, SSDB-18, and SSDVMP-18 are located in the Dental Annex. Data from SSDVMP-18 indicated a vacuum of 0.03 inches of water on December 14, 2011. On December 14, 2011, SSDB-7 was pulling 2.0 inches of water of vacuum, 71 SCFM of flow, and registered PID reading of 6.6 ppmv; and SSDB-18 exhibited a vacuum of 2.0 inches of water, a flow of 67 SCFM, and a PID reading of 8.9 ppmv. Analytical samples were taken from SSDB-7 and SSDB-18 on December 14, 2011, which indicate total VOC concentrations of 470 and 730 ppbv, respectively.

WCCS

Five SSDBs and four SSDVMPs have been installed in the WCCS building. Vacuum measurements collected from SSDVMP-11 through SSDVMP-13 and SSDVMP-19 ranged from 0.27 (SSDVMP-12) to 0.70 inches of water (SSDVMP-11) on December 14, 2011.

On December 14, 2011, vapor flow measured from SSDB-17 and SSDB-8 through SSDB-11 ranged from 7.7 SCFM (SSDB-17) to 14 SCFM (SSDB-8), with vacuum readings from 2.4 inches of water (SSDB-11) to 3.8 inches of water (SSDB-17), and PID readings from 7.3 ppmv (SSDB-10) to 538 ppmv (SSDB-17). Monthly analytical samples collected from October through December show total VOC concentrations ranging from 930 to 3,200 ppbv at SSDB -8 and from 28 to 57,000 ppbv at SSDB-17.

Analytical samples were also collected from SSDB-9, SSDB-10, and SSDB-11 on December 14, 2011, with total VOC concentrations ranging from 1,100 to 10,000 ppbv. Table E-3 presents the analytical data.

SSD Vapor Treatment

Previously, extracted vapor from SSDB-8 had been treated with a GAC system located on the roof of the WCCS building. In April/May 2011, the GAC system was expanded to combine and treat extracted vapor streams from both SSDB-8 and SSDB-17. The expanded system comprises of one knockout drum for removal of liquid and two vapor phase GAC vessels in series for removal of VOCs. The expanded treatment system was put into operation in May 2011. Treated vapor is discharged through a stack on top of the secondary GAC vessel. Figure E-2 shows the roof site plan of the treatment system.

With some exception documented below, the SDD vapor treatment system for SSDB-8 and SSDB-17 operated in compliance with the operational conditions for substantive compliance with SCAQMD regulations documented in the Operation, Maintenance and Monitoring Manual of the Sub-Slab Depressurization System (OM&M Manual) submitted to the EPA in August 2011. These operational conditions include operating status, maintenance and monitoring requirements, sampling requirements, GAC treatment efficiency requirements, and emission concentration limits. The following paragraphs describe compliance of the SSD vapor treatment system with the operational conditions.

All periodic maintenance and sampling requirements have been met. One of the operational conditions is that the total flow rate at the inlet to the GAC adsorbers shall not exceed 15.5 SCFM. However, system influent flow ranged from 19 SCFM to 23 SCFM during the reporting period. As noted below, the WCCS SSD and vapor treatment system is no longer in operation.

The adsorption efficiency requirement from the operational conditions is 90 percent removal compared to influent concentrations, as measured at the effluent of the primary adsorber vessel (lead vessel). The 90% efficiency requirement was not met on October 4 (86%) and October 11 (75%). Carbon changeout was performed on October 14, 2011, on both carbon vessels. Subsequently, the 90% efficiency requirement was not met from November 22 through December 14, 2011. The system was shut down on December 20, 2011 per EPA's approval.

Analytical results from October 11, 2011, showed adsorption efficiency of less than 90 percent. Carbon changeout was performed on October 14, 2011. Although the sampling event conducted on November 8, 2011 demonstrated an overall removal efficiency of 99.9%, the removal efficiency at the lead vessel was less than 90%. The 90% removal efficiency requirement at the lead vessel was also not met on December 14, 2011. The system was shut down on December 20, 2011, per EPA's approval. Analytical results of the influent and effluent from the SSD vapor treatment system are provided in Table E-5.

The outlet of the secondary GAC absorber (lag vessel) is not to exceed 10.1 ppmv according to the operational conditions. With the exception of October 4 (45 ppmv) and October 11, 2011 (68 ppmv), the outlet of the secondary GAC absorber has been below 10.1 ppmv, as measured by PID during the reporting period. Carbon changeout was performed on October 14. Analytical results from October 14, 2011, also showed that the outlet total VOC concentration was above 10.1 ppmv, which is consistent with the PID readings. On November 8 and December 14, 2011, analytical results show that the effluent total VOC concentrations were less than 10.1 ppmv.

The operational conditions also include exhaust emission limits on concentrations of individual constituents. Analytical results show that on October 11, 2011, six compounds were detected at or above the limits. These compounds include 1,1-DCE, CFM, benzene, toluene, Freon 113, and Freon 11. Carbon changeout was performed on October 14, 2011. All compounds were within the limits based on analytical results from November 8, 2011. On December 14, 2011, two compounds (Freon 113 and Freon 11) were detected at or above the limits. The system was shut down on December 20, 2011 per EPA's approval. Analytical results from the influent and effluent of the SSD vapor treatment system and emission limits of the various individual constituents are provided in Table E-5.

Changes or Alterations

- As noted in prior STMAS reports, WCCS staff vacated the building as of September 30, 2011. The building is currently unoccupied.

- Based on the EPA comments to the Omega Technical Memorandum Post-Mitigation Evaluation (CDM Smith, November 3, 2011), the ISVE is achieving the objective of maintaining indoor air levels below the Risk Screening Level (RSL) for the Terra Pave and Bishop buildings. Therefore, the sampling frequency at Terra Pave and Bishop has been decreased to once per quarter. Therefore, Terra Pave and Bishop will be sampled quarterly in March, June, September and December of each year. The next quarterly sampling event at Terra Pave and Bishop will occur in March 2012.

Recommended Changes/Actions

- Although continued sampling of the FRR building is not required under the current AOC, OPOG has agreed to do so. As EPA is aware, OPOG is currently designing an ISVE system in the immediate vicinity of the FRR, ROP, and WCCS buildings. The ISVE system is expected to be operational in the first quarter of 2012. Tenants at FRR have been requested to run the HVAC system 24/7, and to keep the windows open to the extent practicable.

- The January 2012 indoor air sampling event occurred on January 31, 2012, with samples collected from the ROP and FRR buildings.

- As approved by EPA, samples will not be collected from the interior of the WCCS building during the upcoming January 31st sampling. It is anticipated that samples will be collected from the WCCS building in February following the completion of installation and startup of the ISVE system in the area west of Putnam Street.

- As also approved by EPA, the WCCS SSD system was turned off on December 20, 2011.

Other Short Term Mitigation Measures Activities

None.

If you have any questions regarding this report, please feel free to call me at (949) 930-9866.

Sincerely,

Sharon Wallin, P.G.
Project Manager
CDM Smith Inc.

Attachments

Attachment A:
Attachment A: Figures- IAQ Sample Location Maps
Figures 1 and 2-Terra Pave
Figures 3 and 4-Bishop
Figure 5 - ROP
Figure 6 – FRR
Figure 7 – Ambient Air Sampling Locations

Attachment B: Tables
Table 1 - Analytical Summary Table
Tables 2 through 5- Comparison to Health Protective Screening Criteria
Table 6 – ISVE and SSD Data Quality Assessment Table

Attachment C*:* Graphs of TCE and PCE Concentrations (TP, B, ROP, FRR)

Attachment D: Interim SVE System Figures and Tables

Attachment E: Sub-Slab Depressurization Systems Figures and Tables

Attachment F*:* Laboratory Reports and Data Validation Memo

Attachment A: Figures

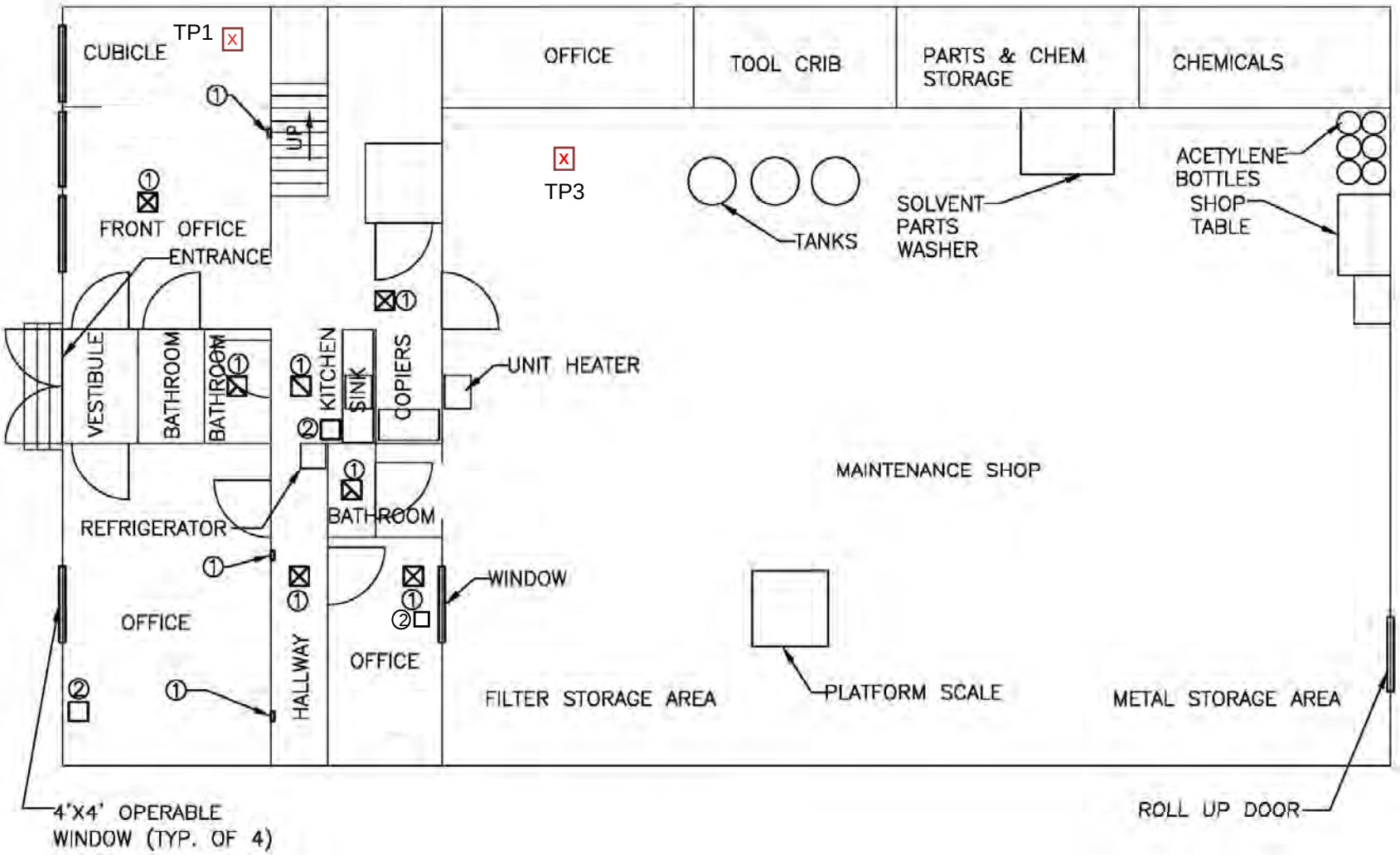
LEGEND

① Diffuser

② Purifier (Installed December 2008, Approximate Location)

[2] Purifier (Installed February 2009, Approximate Location)

[X] Indoor Air Sample Location (TP1, TP2, TP3 Approximate)



TERRA PAVE

NTS

Figure 1
Terra Pave – First Floor

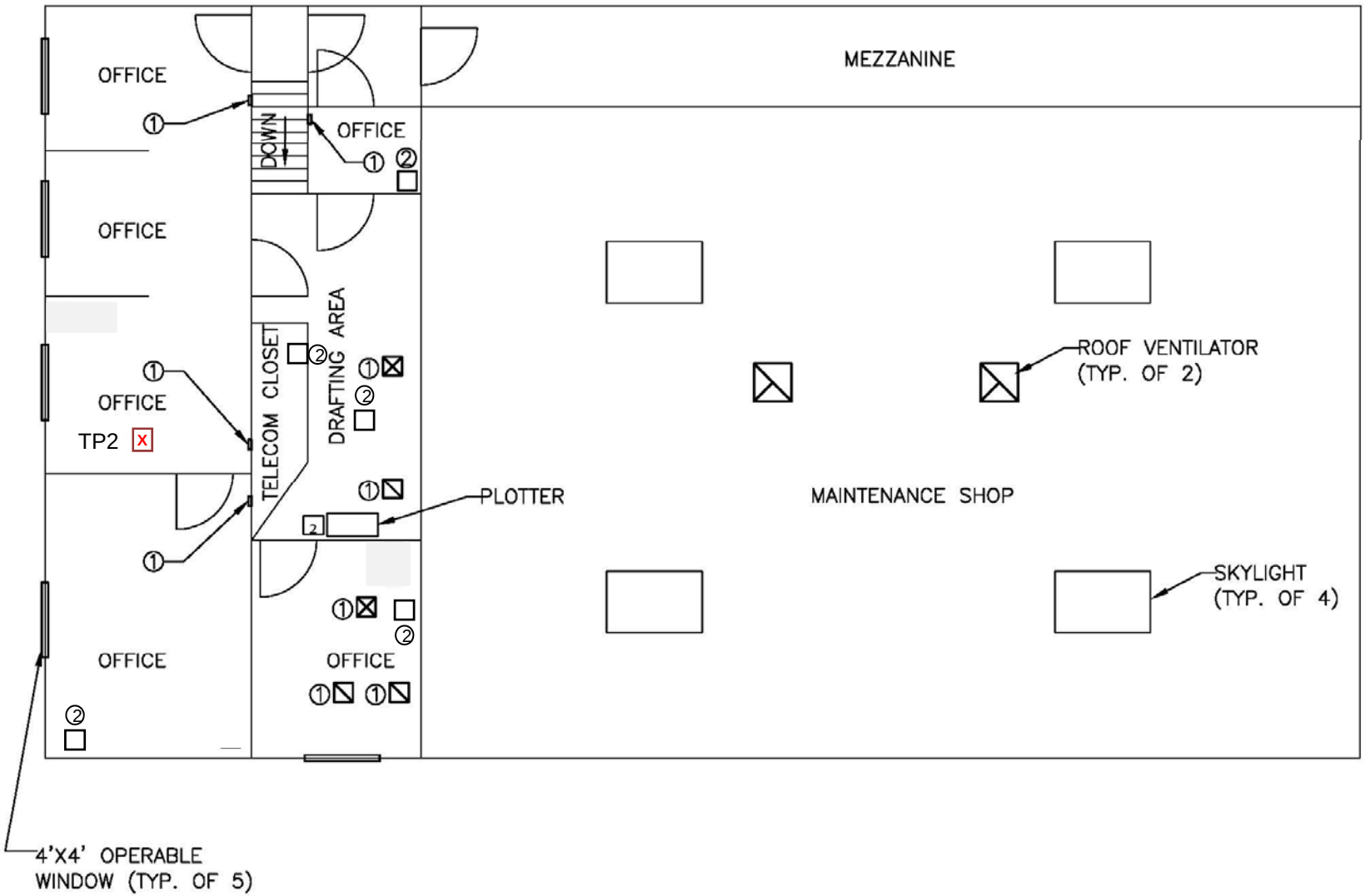
LEGEND

① Diffuser

② Purifier (Installed December 2008, Approximate Location)

[2] Purifier (Installed February 2009, Approximate Location)

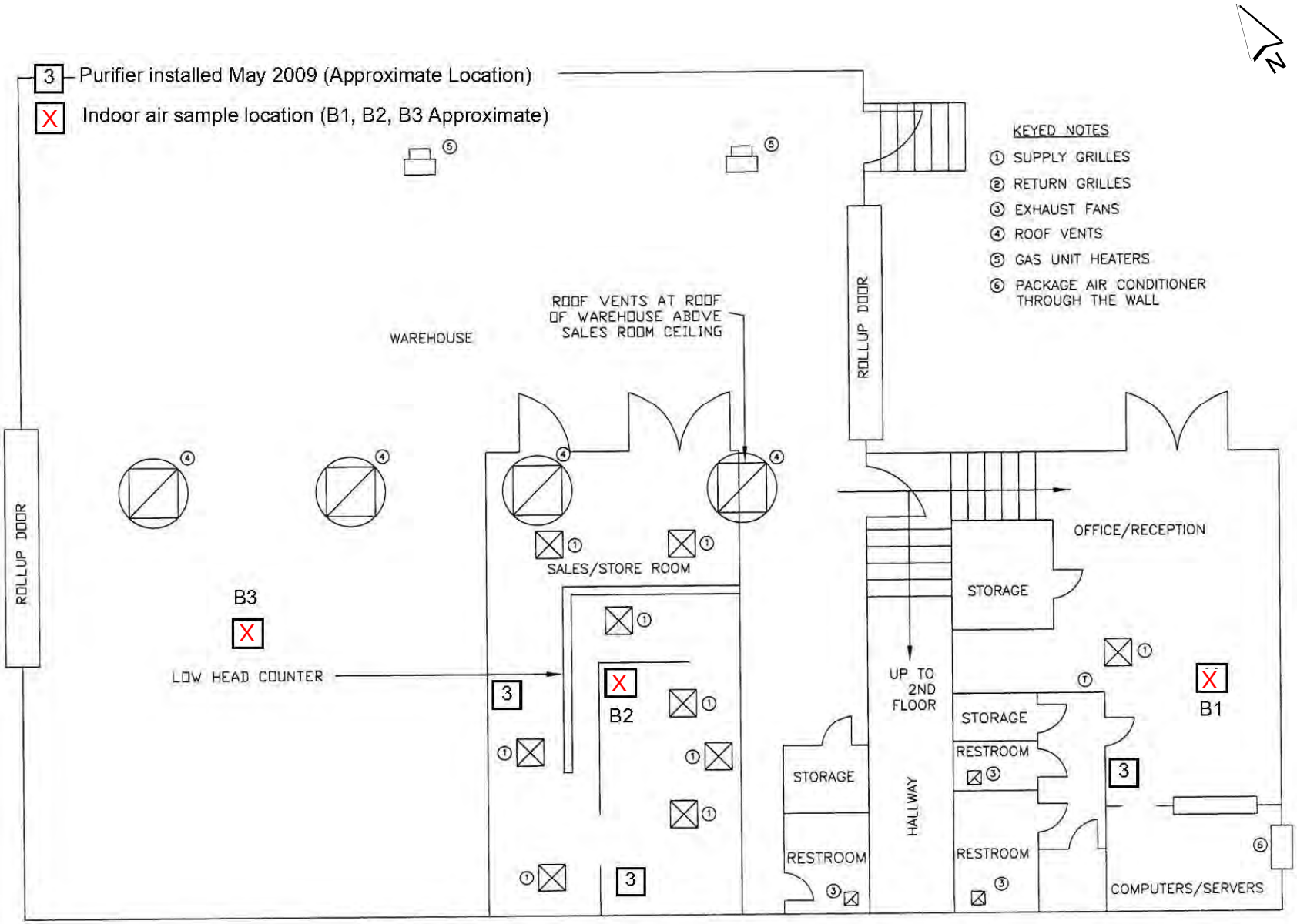
[X] Indoor Air Sample Location (TP1, TP2, TP3 Approximate)



TERRA PAVE

NTS

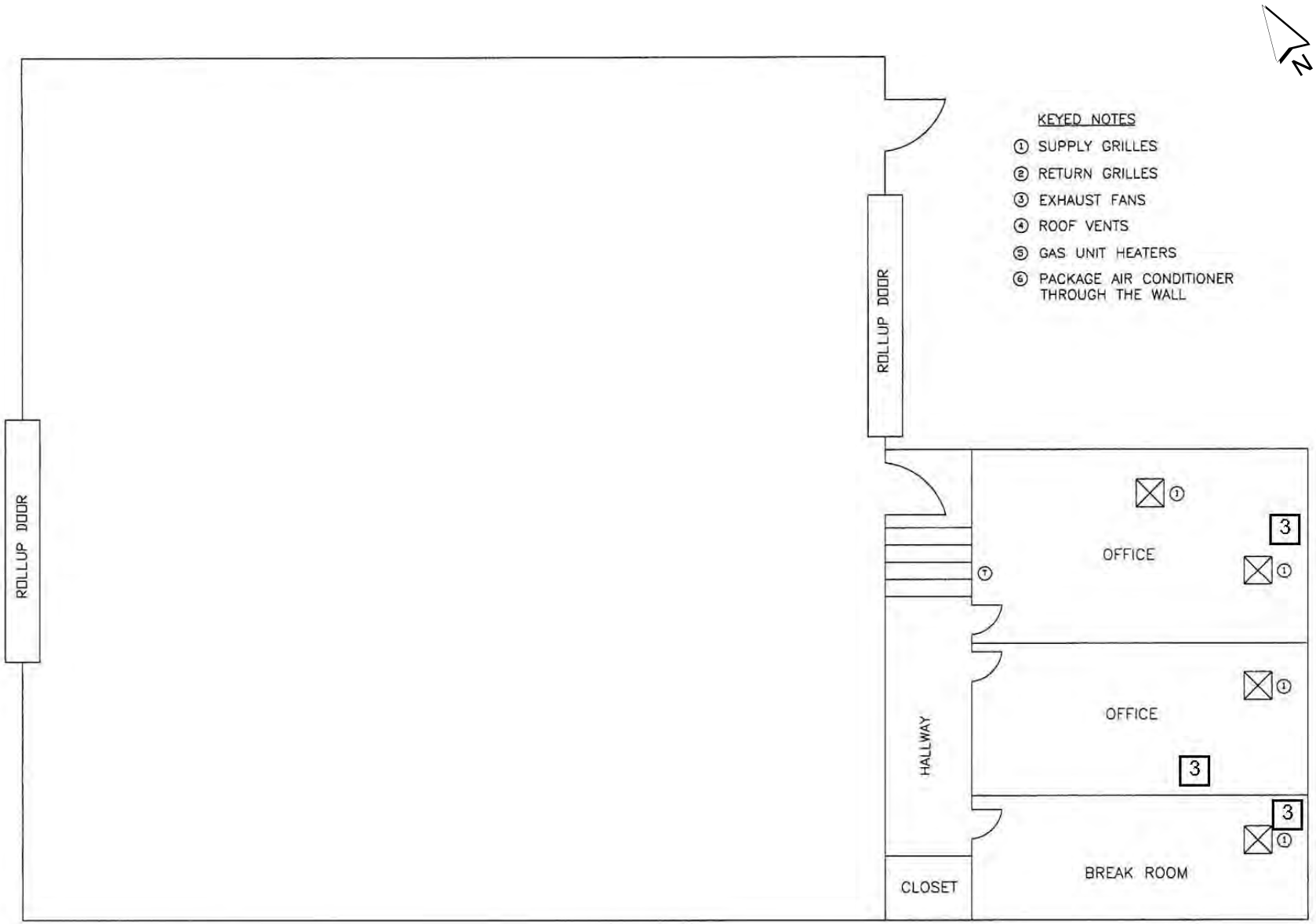
Figure 2
Terra Pave – Second Floor



BISHOP COMPANY FIRST FLOOR

NTS

Figure 3
Bishop – First Floor



BISHOP COMPANY SECOND FLOOR
NTS

Figure 4
Bishop – Second Floor

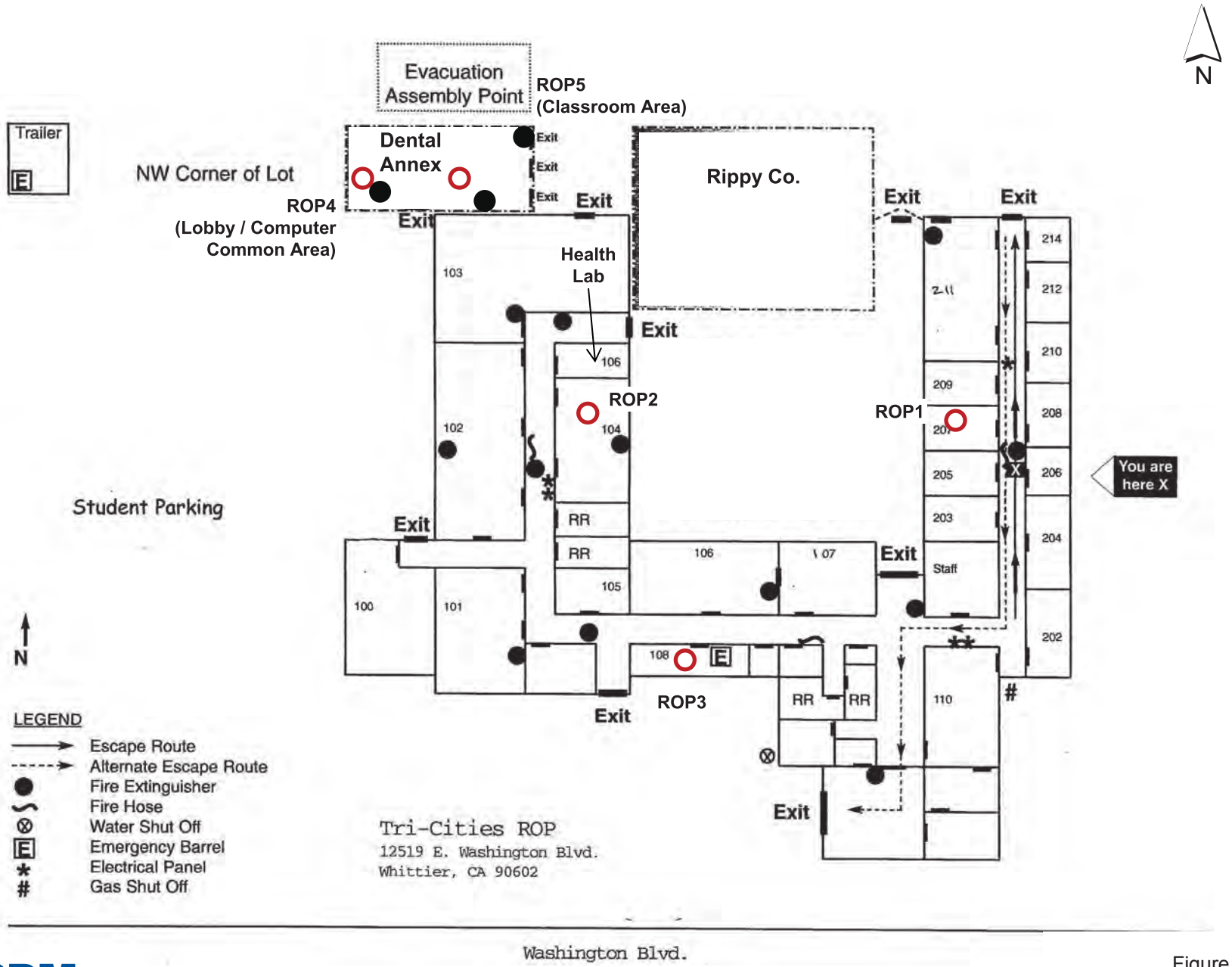


Figure 5
Regional Occupation Program

Legend

- Omega Chemical Property
- Phase Ia Area

N

0 50 100 200
Feet

CDM Smith

Omega Chemical

Fred R. Rippy - Aerial View

Figure 6

Legend

- Former Omega Chemical Facility
- Phase Ia Area
- Former Building
- Other Buildings
- Ambient Air Sample Location
- New Ambient Air Sample Location (December 2011)

N

75 37.5 0 75
Feet
1 inch = 75 feet

CDM Smith

Omega Chemical

Ambient Air Sample Locations (December 2011)

Figure 7

Attachment B: Tables

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
Ambient																								
Between Star City and 3 Kings																								
	05/11/04	ORIG	1.3 U	1 U	1 U	1 U	0.37 U	0.75 U	1.2 U	0.86 U	0.91 U	6.5 U	1.1 U	1.7	1.4 U	2.4	0.24 U	4000 E	1.5 U	6	0.79 J	2.8	1.2	3.4 U
Between Star City and Medlin & Son																								
	05/11/04	ORIG	1.2	1.1	1.1	0.3 U	0.66	0.22 U	0.5	0.25 U	0.27 U	1.9 U	0.33 U	1.7	1.8	2.6	0.07 U	28	0.82	7.8	0.63	2	0.77	0.98 U
	09/14/05	ORIG	1.7	0.4	0.2 U	0.2 U	0.45	0.15 U	0.62	0.17 U	0.18 U	1.3 U	0.22 U	2	1.5	1.8	0.048 U	46	0.86	4.6	0.63	2	0.51	0.67 U
	03/03/09	ORIG	0.91	0.24	0.19 U	0.19 U	0.27	0.14 U	0.52	0.16 U	0.17 U	1.3	0.21 U	2.2	1.1	2.5	0.045 U	44	1.4	7.4	0.92	3.1	1.1	0.63 U
	03/31/10	ORIG	2.1	0.17 U	0.2	0.18 U	0.1	0.16	0.38	0.15 U	0.16 U	1.1 U	0.19 U	1.1	0.78	2.1	0.041 U	11	0.53	1.4	0.18	0.54	0.18	0.58 U
	10/07/10	ORIG	0.43	0.18 U	0.19 U	0.19 U	0.21	0.14 U	0.44	0.16 U	0.16 J	1.2 U	0.2 U	1.2	0.98	2.5	0.044 U	26	0.96	2.9	0.41	1.1	0.38	0.62 U
	03/30/11	ORIG	0.32	0.18 U	0.18 U	0.18 U	0.067 U	0.14 U	0.45	0.15 U	0.17	2.7	0.2 U	1.6	0.59	2.7	0.043 U	24	1.3	4.9	0.57	1.7	0.56 J	0.6 U
	09/27/11	ORIG	0.5	0.2 U	0.21 U	0.21 U	0.076 U	0.15 U	0.49	0.18 U	0.28	5.2	0.23 U	1.6	0.55	2.7	0.049 U	72	1.7	6.7	1.2	4.1	1.5	0.69 U
Bishop exterior fence																								
	09/08/06	ORIG	0.66	0.18 U	0.19 U	0.19 U	0.56	0.14 U	0.57	0.16 U	0.17 U	1.2 U	0.2 U	1.8	1.5	3	0.044 U	38	1	16	0.68	2	0.74	0.62 U
Exterior fence between Bishop and Skateland																								
	07/16/09	ORIG	0.79	0.2 U	0.2 U	0.2 U	0.27	0.15 U	0.59	0.17 U	0.18 U	1.3 U	0.5	1.4	0.69	2.4	0.047 U	26	1.7	7.2	1.3	2.6	0.85	0.66 U
	08/25/09	ORIG	1.3	0.38	0.19 U	0.19 U	0.57	0.14 U	0.51	0.8 U	0.26	1.2 U	1 U	1.8	1.3 U	2.3	0.045 U	55	2.1	9.4	0.83	2.4	0.95	0.63 U
	09/30/09	ORIG	1	0.28	0.21 U	0.21 U	0.35	0.15 U	0.62	0.18 U	0.19 U	1.3 U	0.23 U	1.5	1.5 J	2.7	0.049 U	12	0.82	5.8	0.31	0.72	0.26	0.69 U
	10/29/09	ORIG	0.8	0.58	0.21 U	0.21 U	0.2 J	0.15 U	0.51	0.18 U	0.19 U	1.3 U	0.23 U	1.5	3.7	2.3	0.049 U	11	1.4	6.5	0.52	1.5	0.5	0.69 U
	11/24/09	ORIG	1.3	0.29	0.21 U	0.21 U	0.45	0.15 U	0.45	0.18 U	0.22	1.3 U	0.23 U	1.6	1.2	2.5	0.049 U	20	1.7	8.6	1	2.9	1.1	0.69 U
	12/28/09	ORIG	1.3	0.18 U	0.19 U	0.19 U	0.56	0.14 U	0.47	0.16 U	0.17 U	1.2 U	0.21 U	1.7	1.2	2.5 J	0.044 U	28	0.76	2.4	0.39	1.2	0.39	0.62 U
	01/27/10	ORIG	0.46	0.2 U	0.21 U	0.21 U	0.18	0.15 U	0.56	0.18 U	0.19 U	24	0.23 U	1.6	0.67	2.5	0.049 U	10	0.74	5.3	0.36	0.96	0.28	0.69 U
	02/24/10	ORIG	0.55	0.17 U	0.18 U	0.18 U	0.29	0.13 U	0.54	0.15 U	0.16 U	1.2	0.19 U	1.6	0.92	2.7 J	0.041 U	14	1.2	7.8	0.52	1.7	0.55	0.58 U
	03/31/10	ORIG	0.45	0.18 U	0.18 U	0.18 U	0.3	0.15	0.42	0.15 U	0.16 U	1.1 U	0.19 J	1.2	0.84	2.2	0.042 U	6.7	0.45	1.1	0.17	0.4	0.14 U	0.59 U
	04/28/10	ORIG	4.8 U	3.8 U	3.9 U	3.9 U	1.4 U	2.9 U	4.5 U	3.3 U	3.5 U	25 U	4.3 U	4 U	5.5 U	3.5 U	0.92 U	42 U	5.7 U	30	3.1 U	6.2 U	3.1 U	13 U
	06/18/10	ORIG	0.24 U	0.19 U	0.2 U	0.2 U	0.071 U	0.14 U	0.37	0.16 U	0.17 U	1.2 U	0.22 U	1.4	0.62	2.4	0.046 U	23	0.39	4.6	0.16 U	0.31 U	0.16 U	0.64 U
	06/24/10	ORIG	0.3	0.19 U	0.2 U	0.2 U	0.071 U	0.14 U	0.42	0.16 U	0.17 U	1.2 U	0.22 U	1.7	0.64	2.7	0.046 U	26	0.64	5.1	0.17	0.35	0.16 U	0.64 U
	07/08/10	ORIG	0.27	0.19 U	0.19 U	0.19 U	0.069 U	0.14 UJ	0.41	0.16 U	0.17 U	2.1	0.21 U	1.4	0.6	2.7	0.045 U	22	0.62	2.8	0.16	0.35	0.17	0.63 U
Exterior fence between parking lots near Dental Annex																								
	05/27/10	ORIG	0.77	0.91	0.2 U	0.2 U	0.37 J	0.15 U	0.53	0.17 U	0.18 U	1.3 U	0.22 U	1.7	1.1	2.9	0.047 U	16	0.62	2.1	0.36	0.98	0.32	0.66 U
	07/01/10	ORIG	0.42	0.38	0.2 U	0.2 U	0.11	0.15	0.42	0.16 U	0.19	1.4	0.22 U	1.8	0.73	2.7	0.046 U	21	0.95	2.6	0.25	0.57	0.19	0.64 U
	07/28/10	ORIG	0.38	0.41	0.18 U	0.18 U	0.064 U	0.13 U	0.48	0.15 U	0.16 U	1.1	0.19 U	1.2	0.54	2	0.041 U	21	0.58	1.8	0.29	0.68	0.25	0.58 U
	08/27/10	ORIG	0.49	0.15 U	0.15 U	0.15 U	0.081	0.11 U	0.41	0.13 U	0.18	1	0.17 U	1.7 J	0.66	2.2	0.036 U	17	1.2	3.6	0.36	0.83	0.3	0.5 U
	10/07/10	ORIG	0.24 U	0.19 U	0.19 U	0.19 U	0.069 U	0.14 U	0.42	0.16 U	0.17 U	1.2 U	0.21 U	1.7	0.66	2.6	0.045 U	14	0.62	1.8	0.22	0.57	0.2	0.63 U
	10/27/10	ORIG	0.66	0.18 U	0.19 U	0.19 U	0.13	0.14 U	0.32	0.16 U	0.17 U	17	0.2 U	1.2	0.9	2.5	0.044 U	12	0.44	9.1	0.39	0.63	0.18	0.62 U
	11/30/10	ORIG	0.29	0.2 U	0.21 U	0.21 U	0.076 U	0.15 U	0.46 J	0.18 U	0.19 U	1.3 U	0.23 U	1.2	0.73	2.4	0.049 U	12	0.97	2.2	0.35	0.99	0.3	0.69 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	12/28/10	ORIG	0.49	0.21 U	0.21 U	0.21 U	0.078 U	0.22	0.5 J	0.18 U	0.24	1.4 U	0.24 U	1.6	0.62	2.8	0.05 U	27	1.1	9.3	0.51	1.3	0.32	0.71 U
	01/26/11	ORIG	0.36	0.2 U	0.21 U	0.21 U	0.076 U	0.15 U	0.48 J	0.18 U	0.19 U	1.3 U	0.23 U	1.2	0.6	2.6	0.049 U	20	1	3.4	0.41	1.2	0.34	0.69 U
	02/28/11	ORIG	0.19 U	0.15 U	0.15 U	0.15 U	0.055 UJ	0.11 U	0.28	0.13 U	0.14 U	0.96 U	0.17 U	1.3	0.62	2.5	0.036 U	12	0.96	2.3	0.35	1	0.33	0.5 U
	03/30/11	ORIG	0.34	0.19 U	0.2 U	0.2 U	0.071 U	0.15	0.49	0.16 U	0.18	1.2	0.22 U	1.6	0.59	2.6	0.046 U	18	1.2	3.8	0.5	1.4	0.45 J	0.64 U
	04/29/11	ORIG	0.32	0.18 U	0.19 U	0.19 U	0.068 U	0.14 U	0.46	0.16 U	0.17 U	1.2 U	0.2 UJ	1.8	0.58	2.8	0.044 U	25	0.56	1.3	0.14 J	0.34	0.16	0.62 U
	05/31/11	ORIG	0.3	0.19 U	0.19 U	0.19 U	0.069 U	0.14 UJ	0.54 J	0.16 U	0.17 U	1.2 U	0.21 U	1.2	0.65	2.7	0.045 U	12	0.85	2.3	0.28	0.81	0.31 J	0.63 U
	06/29/11	ORIG	0.25 U	0.2 U	0.2 U	0.2 U	0.074 U	0.15 U	0.52	0.17 U	0.18 U	1.3 U	0.22 UJ	1.2	0.56	2.5	0.048 U	13	0.59	1.8	0.29	0.84	0.32	0.67 U
	07/27/11	ORIG	0.34	0.18 U	0.18 U	0.18 U	0.067 U	0.14 U	0.54	0.15 U	0.16 U	1.2 U	0.2 UJ	1.3 J	0.52	2.5	0.043 U	12	0.39	1	0.18	0.5	0.19	0.6 U
	08/31/11	ORIG	0.37	0.19 U	0.2 U	0.2 U	0.071 U	0.14 U	0.6	0.16 U	0.17 U	1.2 U	0.22 UJ	2	0.61	3.1	0.046 U	17	0.53	1.5	0.22	0.54	0.2	0.64 U
	09/27/11	ORIG	0.54	0.22 U	0.22 U	0.22 U	0.082 U	0.18 J	0.43	0.19 U	0.22	1.4 U	0.25 U	1.4	0.56	2.5	0.053 U	32 J	1.4	4.4 J	0.68 J	1.9 J	0.93 J	0.74 U
	09/27/11	DUP	0.48	0.17 U	0.17 U	0.17 U	0.063 U	0.38 J	0.51	0.14 U	0.25	3.4	0.19 U	1.4	0.6	2.4	0.04 U	47 J	1.3	8.1 J	1.6 J	4.4 J	1.4 J	0.57 U
	10/28/11	ORIG	0.44	0.15 U	0.16 U	0.16 U	0.057 U	0.16	0.44	0.13 U	0.26	1	0.17 U	1.4	0.65	2.7	0.037 U	36	2	6.6	0.96	3.5	1.3	0.52 U
	11/30/11	ORIG	0.58	0.18	0.19 U	0.19 U	0.068 U	0.17	0.47	0.16 U	0.25	1.4	0.2 UJ	1.3	0.57	2.4	0.044 U	38	1.9	6.4	0.97	3.1	1.1	0.62 U
	12/21/11	SPLIT	0.59	0.085	0.22 U	0.22 U	0.079 U	0.16 U	0.57 J	0.18 U	0.23 J	1.4 U	0.24 U	1.5	0.66	2.8	0.051 U	24 J	1.9 J	5.6 J	1.1	3.1 J	1.3	0.72 U
	12/21/11	ORIG	0.71	0.18 U	0.18 U	0.18 U	0.07	0.21	0.84 J	0.15 U	0.43 J	1.1 U	0.2 U	1.4	0.66	2.7	0.042 U	30 J	2.8 J	8 J	1.3	4.4 J	1.5	0.59 U
Exterior fence between Terra Pave and Madsen Roofing																								
	07/23/08	ORIG	1.3	0.25	0.2 U	0.2 U	0.074 U	0.15 U	0.44	0.17 U	0.18 U	1.3 U	0.22 U	1.3	0.96	2.3	0.048 U	15	1	4.8	0.64	2	0.65	0.67 U
	03/03/09	ORIG	1.2	0.29	0.2 U	0.2 U	0.17	0.15 U	0.51	0.17 U	0.18 U	1.3 U	0.22 U	2.5	0.77	2.4	0.048 U	32	1.4	19	0.61	2	0.75	0.67 U
	07/16/09	ORIG	1.1	0.18 U	0.19 U	0.19 U	0.084	0.14 U	0.57	0.16 U	0.17 U	1.2 U	0.2 U	1.6	0.56	2.5	0.044 U	48	1.2	19	0.51	1.3	0.45	0.62 U
	08/25/09	ORIG	7.9	0.86	0.86 U	0.86 U	0.52	0.64 U	0.99 U	0.73 U	0.77 U	5.5 U	0.95 U	2.2	1.4	3	0.2 U	870 E	3.5	410	2.1	7.2	2.4	2.8 U
	09/30/09	ORIG	4.5	0.47	0.4 U	0.4 U	0.41	0.3 U	0.63	0.34 U	0.36 U	2.5 U	0.44 U	1.6	1.3 J	2.9	0.093 U	31	2.3	20	3.5	13	4.5	1.3 U
	10/29/09	ORIG	9.1	0.78	0.38 U	0.38 U	0.53 J	0.28 U	0.52	0.32 U	0.34 U	3.1	0.42 U	1.8	5	2.7	0.089 U	250 E	2.5	170	2.1	6.7	2.4	1.3 U
	11/24/09	ORIG	8.7	0.66	0.2 U	0.2 U	0.72	0.15 U	0.46	0.17 U	0.18 U	2.8	0.22 U	1.3	1.3	2.5	0.048 U	32	7.3	40	10	40	12	0.67 U
	12/28/09	ORIG	1.9	0.19 U	0.19 U	0.19 U	0.22	0.14 U	0.45	0.16 U	0.17 U	1.2 U	0.21 U	1.5	0.82	2.4	0.045 U	140 E	0.89	3.5	2.4	7.8	2	0.63 U
	01/27/10	ORIG	3	0.28	0.21 U	0.21 U	0.28	0.15 U	0.48	0.18 U	0.19 U	2.7	0.23 U	1.6	0.73	2.5	0.049 U	16	1.1	4.7	1	3.4	1.2	0.69 U
	02/24/10	ORIG	2.8	0.43	0.16 U	0.16 U	0.24	0.12 U	0.51	0.14 U	0.15 U	1.8	0.18 U	1.5	0.77	2.9 J	0.039 U	130 E	1.8	32	3.6	17	6.8	0.55 U
	03/31/10	ORIG	5.1	0.37	0.19 U	0.19 U	0.46	0.2	0.41	0.16 U	0.17 U	2.1	0.21 U	1.1	0.87	2.1	0.045 U	12	6.6	38	5.3	24	6.7	0.63 U
	04/28/10	ORIG	2.4	0.34	0.18 U	0.18 U	0.22 J	0.14 U	0.4	0.15 U	0.16 U	7.2	0.2 U	1.2	0.78 J	2.4	0.043 U	16	0.4	4.8	0.14 J	0.38	0.14 U	0.6 U
	05/27/10	ORIG	0.99	0.18 U	0.19 U	0.19 U	0.31	0.14 U	0.55	0.16 U	0.17 U	1.2 U	0.2 U	1.8	1.1	3.1	0.044 U	17	1.1	4.5	0.65	1.8	0.58	0.62 U
	06/18/10	ORIG	0.23 U	0.18 U	0.19 U	0.19 U	0.068 U	0.14 U	0.37	0.16 U	0.17 U	1.2 U	0.2 U	1.3	0.56	2.3	0.044 U	31	1	5.1	0.5	1.4	0.45	0.62 U
	06/24/10	ORIG	0.32	0.19 U	0.2 U	0.2 U	0.071 U	0.14 U	0.38	0.16 U	0.17 U	1.2 U	0.22 U	1.5	0.57	2.4	0.046 U	25	1.9	6.6	0.53	1.5	0.5	0.64 U
	07/01/10	ORIG	0.34	0.19 U	0.19 U	0.19 U	0.069 U	0.14 U	0.42	0.16 U	0.17 U	1.9	0.21 U	1.7	0.66	2.6	0.045 U	62	2.1	8.4	0.71	2	0.68	0.63 U
	07/08/10	ORIG	0.23	0.18 U	0.18 U	0.18 U	0.067 U	0.14 UJ	0.42	0.15 U	0.16 U	1.9	0.2 U	1.7	0.68	2.7	0.043 U	33	0.9	3	0.31	0.82	0.28	0.6 U
	07/28/10	ORIG	0.36	0.15 U	0.15 U	0.15 U	0.055 U	0.11 U	0.42	0.13 U	0.14 U	1.2	0.17 U	1.3	0.46	2	0.036 U	17	1.9	7.2	1	3.7	1.4	0.5 U
	08/27/10	ORIG	0.34	0.19 U	0.2 U	0.2 U	0.071 U	0.14 U	0.42	0.16 U	0.17 U	1.3	0.22 U	1.6 J	0.67	2.4	0.046 U	14	1.6	5.9	0.52	1.3	0.42	0.64 U

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Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	10/27/10	ORIG	0.25 U	0.2 U	0.2 U	0.2 U	0.074 U	0.15 U	0.45	0.17 U	0.18 U	1.3 U	0.22 U	1.4	2.1	2.5	0.048 U	10	0.48	1.3	0.31	1.1	0.39	0.67 U
	11/30/10	ORIG	0.47	0.19 U	0.19 U	0.19 U	0.069 U	0.18	0.46 J	0.16 U	0.17 U	1.2 U	0.21 U	1	0.55	2.3	0.045 U	130 E	3.5	14	2.4	8.7	2.9	0.63 U
	12/28/10	ORIG	0.51	0.2 U	0.21 U	0.21 U	0.076 U	0.2	0.45 J	0.18 U	0.19 U	1.3 U	0.23 U	1.6	0.61	2.8	0.049 U	18	1.1	9.6	0.5	1.4	0.47	0.69 U
	01/26/11	ORIG	0.6	0.18 U	0.18 U	0.18 U	0.067 U	0.14 U	0.46 J	0.15 U	0.16 U	2.3	0.2 U	1.3	0.56	2.5	0.043 U	170 E	4.1	32	2.5	9.1	2.6	0.6 U
	02/28/11	ORIG	0.34	0.18 U	0.18 U	0.18 U	0.065 UJ	0.14	0.48	0.15 U	0.16 U	3.6	0.2 U	1.2	0.57	2.4	0.042 U	260 E	3.5	63	4.9	14	3.2	0.59 U
	04/29/11	ORIG	0.3	0.18 U	0.19 U	0.19 U	0.068 U	0.14 U	0.42	0.16 U	0.17 U	1.2	0.2 UJ	1.9	0.63	2.8	0.044 U	10	0.92	2.8	0.32	0.9	0.28	0.62 U
	05/31/11	ORIG	0.74	0.19 U	0.19 U	0.19 U	0.087	0.15 J	0.52 J	0.16 U	0.17 U	1.2 U	0.21 U	1.3	0.64	2.6	0.045 U	15	3.7	15	1.4	4.9	1.5 J	0.63 U
	06/29/11	ORIG	0.41	0.17 U	0.17 U	0.17 U	0.062 U	0.13 U	0.57	0.14 U	0.15 U	2.3	0.19 UJ	1.1	0.36	2.6	0.04 U	20	6.1	31	5.8	22	8	0.56 U
	07/27/11	ORIG	0.4	0.19 U	0.2 U	0.2 U	0.071 U	0.16	0.49	0.16 U	0.17 U	1.2 U	0.22 UJ	1.2 J	0.51	2.3	0.046 U	7.7	1.6	4.2	0.51	1.7	0.58	0.64 U
	08/31/11	ORIG	0.67	0.21 U	0.21 U	0.21 U	0.087	0.16 U	0.58	0.18 U	0.19 U	1.4 U	0.23 UJ	1.6	0.64	2.9	0.05 U	24	2.4	25	5.7	25	8.2	0.7 U
	10/28/11	ORIG	0.53	0.2 U	0.2 U	0.2 U	0.072 U	0.16	0.4	0.17 U	0.24	1.4	0.22 U	1.4	0.59	2.5	0.047 U	32	4.4	21	3.6	15	5.2	0.66 U
	11/30/11	ORIG	0.53	0.22 U	0.22 U	0.22 U	0.08 U	0.18	0.45	0.18 U	0.25	1.5	0.24 UJ	1.4	0.55	2.4	0.051 U	39	4	13	1.7	5.6	2	0.72 U
	12/21/11	ORIG	0.43 J	0.35 U	0.35 U	0.35 U	0.13 U	0.47	0.78	0.3 U	0.32 U	2.2 U	0.39 U	1.4	0.63	2.6	0.083 U	410 E	5	29	36	160	59	1.2 U
Former 3 Kings rooftop, southwest corner																								
	09/27/11	ORIG	0.5	0.2 U	0.21 U	0.21 U	0.076 U	0.15 U	0.51	0.18 U	0.26	2	0.23 U	1.5	0.53	2.6	0.049 U	42	1.5	4.8	0.75	2.2	0.84	0.69 U
Former Merchants Metals parking lot																								
	05/11/04	ORIG	0.6	0.23	0.2 U	0.2 U	0.074 U	0.15 U	0.58	0.17 U	0.18 U	1.3 U	0.4	1.6	0.73	2.6	0.048 U	15	1	5.1	0.78	2.3	0.87	0.67 U
	12/21/11	ORIG	0.5	0.17 U	0.17 U	0.17 U	0.062	0.23	0.85	0.14 U	0.19	1.1 U	0.19	1.3	0.78	2.7	0.04 U	23	2.6	7.6	1.2	4.3	1.5	0.56 U
JHA trailer rooftop, southeast corner																								
	09/27/11	SPLIT	0.59	0.15	0.27 U	0.27 U	0.099 U	0.2 U	0.54	0.23 U	0.31	1.7 U	0.3 U	1.3	0.72	3.2 J	0.064 U	38	1.8	6.9 J	0.82	2.6 J	1.5 J	0.9 U
	09/27/11	ORIG	0.52	0.21 U	0.21 U	0.21 U	0.078 U	0.18	0.45	0.18 U	0.26	1.6	0.24 U	1.5	0.54	2.5 J	0.05 U	38	1.5	4.6 J	0.69	1.9 J	0.75 J	0.71 U
Kaiser parking lot across from NW corner of Medlin South																								
	12/21/11	ORIG	0.34	0.19 U	0.19 U	0.19 U	0.069 U	0.19	0.78	0.16 U	0.17 U	1.2 U	0.21 U	1.4	0.6	2.7	0.045 U	18	1.7	4.6	0.81	2.6	0.91	0.63 U
Medlin & Son roof intake																								
	05/11/04	ORIG	0.55	0.2 U	0.2 U	0.2 U	0.15	0.15 U	0.59	0.17 U	0.18 U	2.1	0.22 U	1.9	1.3	3.4	0.046 U	19	0.91	5.5	0.79	2.1	0.8	0.66 U
Northeast corner of ROP rooftop																								
	09/27/11	ORIG	2.1	0.2	0.2 U	0.2 U	0.4	0.17	0.48	0.17 U	0.3	1.9	0.22 U	1.6	0.73	2.4	0.048 U	32	1.8	5.3	0.86	2.8	1.2	0.67 U
	10/28/11	ORIG	1.7	0.2 U	0.2 U	0.2 U	0.27	0.17	0.51	0.17 U	0.25	1.7	0.22 U	1.5	0.79	2.7	0.047 U	30	2	6.3	0.97	3.4	1.2	0.66 U
	11/30/11	ORIG	1.9	0.22	0.19 U	0.19 U	0.24	0.17	0.46	0.16 U	0.25	1.4	0.21 UJ	1.3	0.8	2.3	0.045 U	36	1.8	6	0.89	2.8	1	0.63 U
	12/21/11	ORIG	0.9	0.18 U	0.19 U	0.19 U	0.1	0.24	0.88	0.16 U	0.17	1.2 U	0.21 U	1.4	0.68	2.9	0.044 U	17	2.5	7	1.2	3.7	1.3	0.62 U
Oncology Care Rooftop																								
	09/08/06	ORIG	0.32	0.19 U	0.19 U	0.19 U	0.069 U	0.14 U	0.53	0.16 U	0.17 U	1.2 U	0.21 U	1.6	0.74	2.7	0.045 U	38	1.2	4.4	0.87	2.9	1.1	0.63 U
Outside rear of Madsen Roofing building by AC intake																								
	07/23/08	ORIG	0.99	0.23 U	0.23 U	0.23 U	0.18	0.17 U	0.45	0.2 U	0.21 U	1.5 U	0.25 U	1.3	1.2	2.4	0.054 U	18	1.2	6.6	1.3	3.7	0.95	0.76 U

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Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
Rippy Parking Lot																								
	05/11/04	ORIG	0.86	0.48	0.2 U	0.2 U	0.16	0.15 U	0.5	0.17 U	0.18 U	1.3 U	0.22 U	1.7	1.1	2.7	0.048 U	19	1.3	6.7	1.4	5	1.9	0.67 U
	05/11/04	DUP	0.57	0.42	0.16 U	0.16 U	0.12	0.12 U	0.6	0.14 U	0.14 U	1 U	0.18 U	1.8	1.1	2.9	0.038 U	14	0.9	3.3	0.47	1.5	0.52	0.54 U
	09/14/05	ORIG	0.84	0.42	0.2 U	0.2 U	0.13	0.15 U	0.63	0.17 U	0.18 U	1.3 U	0.22 U	1.8	1.4	2	0.047 U	14	0.99	3.7	0.45	1.3	0.45	0.66 U
ROP rooftop, centered on roof on eastern side of building																								
	09/27/11	ORIG	1.7	0.2 U	0.2 U	0.2 U	0.31	0.18	0.51	0.17 U	0.33	2.1	0.22 U	1.6	0.73	2.6	0.048 U	39	1.8	5.5	0.87	2.8	1.3	0.67 U
Skateland - adjacent to front door																								
	08/04/04	ORIG	1.2	0.26	0.19 U	0.19 U	0.58	0.14 U	0.72	0.16 U	0.17 U	1.5	0.22	2.1	2.6	3.4 J	0.044 U	61	1.6	5.7	1	3.6	1.8	0.62 U
Skateland - adjacent to sewer manhole																								
	08/04/04	ORIG	1.7	0.22	0.2 U	0.2 U	0.89	0.15 U	0.61	0.17 U	0.18 U	1.8	0.22 U	2	1.8	3.5 J	0.048 U	34	1.7	5.3	0.85	2.2	0.9	0.67 U
Southeast corner of ROP rooftop																								
	09/27/11	ORIG	0.78	0.2 U	0.2 U	0.2 U	0.094	0.15 U	0.48	0.17 U	0.32	2.2	0.24	1.5	0.6	2.6	0.048 U	34	1.9	5.7	0.91	2.8	1.2	0.67 U
	10/28/11	ORIG	1.2	0.2 U	0.2 U	0.2 U	0.2	0.15 U	0.53	0.17 U	0.26	1.3 U	0.22 U	1.5	0.76	2.7	0.047 U	32	2.2	6.8	1.2	4.3	1.4	0.66 U
	11/30/11	ORIG	0.44	0.18 U	0.19 U	0.19 U	0.068 U	0.18	0.36	0.16 U	0.24	1.4	0.2 UJ	1.3	0.54	2.5	0.044 U	39	2	6.6	0.98	3.2	1.4	0.62 U
	12/21/11	ORIG	0.67	0.19 U	0.19 U	0.19 U	0.069 U	0.22	0.76	0.16 U	0.17	1.2 U	0.21 U	1.4	0.72	2.8	0.045 U	18	2.6	7.3	1.1	3.8	1.3	0.63 U
Southwest corner of ROP rooftop																								
	07/27/11	ORIG	0.23 U	0.18 U	0.19 U	0.19 U	0.068 U	0.14 U	0.5 J	0.16 U	0.17 U	1.2 U	0.2 UJ	1.2	0.5	2.4	0.044 U	11	0.39	1.2	0.2	0.61	0.23	0.62 U
Star City rooftop, southwest corner																								
	09/27/11	ORIG	0.56	0.21 U	0.21 U	0.21 U	0.078 U	0.17	0.5	0.21	0.27	2.8	0.24 U	1.5	0.57	2.6	0.05 U	69	1.5	8.2	1.6	5.7	2	0.71 U
Terra Pave rooftop, along south edge, centered																								
	09/27/11	ORIG	0.71	0.2 U	0.21 U	0.21 U	0.076 U	0.15 U	0.51	0.18 U	0.36	2	0.23 U	1.6	0.62	2.6	0.049 U	40	1.8	5.4	0.82	2.3	0.92	0.69 U
Tree lawn across from driveway to former Skateland																								
	12/21/11	ORIG	0.3	0.16 U	0.16 U	0.16 U	0.059 U	0.19	0.75	0.14 U	0.15 U	1 U	0.18 U	1.4	0.59	2.7	0.038 U	14	1.4	4	0.62	2	0.73	0.54 U
Tree lawn across from driveway to Star City																								
	12/21/11	ORIG	0.32	0.19 U	0.19 U	0.19 U	0.069 U	0.2	0.72	0.16 U	0.17 U	1.2 U	0.21 U	1.4	0.57	2.7	0.045 U	20	1.6	4.7	0.91	3.2	1.2	0.63 U
Tree lawn across from former 3 Kings building																								
	12/21/11	ORIG	0.36	0.18 U	0.19 U	0.19 U	0.068 U	0.2	0.85	0.16 U	0.17 U	1.2 U	0.21 U	1.4	0.8	2.7	0.044 U	16	1.5	4.2	0.7	2.2	0.78	0.62 U
	12/21/11	DUP	0.3	0.15 U	0.15 U	0.15 U	0.055 U	0.17	0.75	0.13 U	0.14 U	0.96 U	0.17 U	1.3	0.73	2.6	0.036 U	15	1.3	3.7	0.58	1.9	0.68	0.5 U
WCCS rooftop, north central side of building																								
	10/28/11	ORIG	1.3	0.2 U	0.21 U	0.21 U	0.19	0.16	0.51	0.18 U	0.23	1.3 U	0.23 U	1.4	0.79	2.5	0.049 U	28	1.3	4.3	0.66	2.3	0.84	0.69 U
	11/30/11	ORIG	2.2	0.27	0.18 U	0.18 U	0.27	0.17	0.5	0.15 U	0.95	1.4	0.19 UJ	1.4	1.2	2.1	0.041 U	43	2	5.9	0.9	2.9	1	0.58 U
	12/21/11	ORIG	1.3	0.19 U	0.19 U	0.19 U	0.12	0.24	0.69	0.16 U	0.17 U	1.2 U	0.21 U	1.3	0.62	2.6	0.046 U	15	2.5	7.4	1.1	4	1.4	0.64 U
WCCS rooftop, southern side of building near intake vent																								
	09/27/11	ORIG	4.8	0.36	0.19 U	0.19 U	2.5	0.14	0.49	0.16 U	0.3	2	0.2 U	2.8	1.1	2.6	0.044 U	35	1.5	4.6	0.92	3.6	2	0.62 U

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	10/28/11	ORIG	2.6	0.22	0.21 U	0.21 U	0.49	0.16	0.53	0.18 U	0.26	1.3 U	0.23 U	1.5	0.76	2.4	0.049 U	28	1.3	4.2	0.66	2.1	0.79	0.69 U
	11/30/11	ORIG	2.9	0.29	0.19 U	0.19 U	0.4	0.18	0.47	0.16 U	0.28	1.6	0.21 UJ	1.5	0.88	2.5	0.045 U	38	2.1	6.8	1	3.4	1.4	0.63 U
	12/21/11	ORIG	1.1	0.19 U	0.19 U	0.19 U	0.1	0.23	0.73	0.16 U	0.17 U	1.2 U	0.21 U	1.3	0.64	2.7	0.045 U	16	2.6	7.6	1.2	3.9	1.4	0.63 U
3 Kings Construction																								
Interior office area																								
	05/11/04	ORIG	3.2	0.92	0.22	0.19 U	2.7	0.14 U	0.58	0.16 U	0.25	2.1	0.2 U	3	4.1	2.6	0.044 U	28	6	40	4.4	20	5.6	0.62 U
	09/14/05	ORIG	7.6	2.2	0.2 U	0.2 U	4.9	0.15 U	0.57	0.17 U	0.18 U	49	0.22 U	3.8	4.2	1.4	0.048 U	24	2.8	36	3.2	14	2.9	0.67 U
Storage and work area																								
	05/11/04	ORIG	1	0.25	0.21	0.18 U	0.7	0.13 U	0.59	0.15 U	0.16 U	1.8	0.2 U	2	1.6	2.7	0.043 U	37	5.1	34	3.8	18	5	0.6 U
	09/14/05	ORIG	13	3.3	0.51 U	0.51 U	9.2	0.38 U	0.65	0.43 U	0.46 U	260	0.56 U	5.9	6.8	3.1	0.12 U	50	11	170	16	82	17	1.7 U
Bishop																								
Admin Office																								
	09/08/06	ORIG	9.3	0.5	0.34 U	0.34 U	5.3	0.25 U	0.57	0.28 U	0.3 U	2.2 U	0.37 U	2.3	3.9	3.1	0.079 U	64	1.2	6.5	0.72	2.4	0.93	1.1 U
	09/08/06	DUP	11	0.56	0.16 U	0.16 U	5.8	0.12 U	0.58	0.14 U	0.15	1 J	0.32	2.4	4	2.9	0.038 U	18	1.1	7.7	0.9	3	1.1	0.54 U
	03/03/09	ORIG	110	4.5	0.17 U	0.17 U	44	0.12 U	0.51	0.14 U	0.16	1.1 U	0.19 U	9.1	35	2.3	0.04 U	13	1	4.7	0.61	2	0.75	0.56 U
	03/03/09	EPA	149.2	5.9 J	10.4 U	10.4 U	51.5	7.7 U	12 U	8.7 U	9.3 U	6.6 U	11.4 U	10.1 J	39.9	9.4 U	4.9 U	--	6.1 U	4.1 J	8.3 U	16.9 U	8.3 U	--
	03/03/09	DUP	110	4.6	0.18 U	0.18 U	44	0.13 U	0.54	0.15 U	0.16 J	1.1 U	0.2 U	9.5	36	2.4	0.042 U	14	1	4.7	0.61	2	0.76	0.59 U
	07/16/09	ORIG	14	0.71	0.19 U	0.19 U	2.9	0.14 U	0.58	0.16 U	0.18	1.2 U	0.2 U	2	1.8	2.4	0.044 U	24 J	1	4.2	0.47	1.2	0.43	0.62 U
	07/16/09	DUP	14	0.74	0.18 U	0.18 U	3	0.14 U	0.58	0.15 U	0.18	1.2 U	0.2 U	2	1.7	2.4	0.043 U	37 J	1.1	4.5	0.48	1.2	0.44	0.6 U
	08/25/09	ORIG	3.8	0.59	0.18 U	0.18 U	0.58 J	0.13 J	0.52	0.15 U	0.31	1.4	0.2 U	1.8	0.97	2.6	0.042 U	40 J	2.4	8.7	0.79	2.1 J	0.69 J	0.59 U
	08/25/09	DUP	3.5	0.68	0.19 U	0.19 U	0.74 J	0.17	0.79	0.79 U	0.33	1.6	1 U	1.8	1.3 U	2.3	0.044 U	28 J	2.4	7.8	0.93	2.6 J	1 J	0.62 U
	09/30/09	ORIG	6.5	0.58	0.18 U	0.18 U	1.3	0.13 U	0.58	0.15 U	0.16 U	5.9	0.2 U	1.6	1.7 J	2.6	0.042 U	21 J	0.83	3.8	0.41	0.9	0.32	0.59 U
	09/30/09	DUP	6.3	0.59	0.2 U	0.2 U	1.2	0.14 U	0.62	0.16 U	0.17 U	6.1	0.22 U	1.6	1.8 J	2.9	0.046 U	16 J	0.85	4.2	0.39	0.85	0.3	0.64 U
	10/29/09	ORIG	55	2.4	0.18 U	0.18 U	8 J	0.14 U	0.53	0.15 U	0.18	1.2 U	0.2 U	2.4	9.5	2.4	0.043 U	13	1.8	7	0.72	2.1	0.7	0.6 U
	10/29/09	DUP	55	2.4	0.18 U	0.18 U	8.4 J	0.14 U	0.49	0.15 U	0.18	1.2 U	0.2 U	2.5	9.8	2.4	0.043 U	14	1.8	7.2	0.72	2.2	0.73	0.6 U
	11/24/09	ORIG	140	5.6	0.25 U	0.25 U	26	0.18 U	0.47	0.21 U	0.36	3.4	0.27 U	5.4	15	2.6	0.058 U	25	2.5	36 J	2.4 J	5.4 J	2 J	0.81 U
	11/24/09	DUP	160	5.9	0.26 U	0.26 U	28	0.19 U	0.49	0.22 U	0.34	1.7 U	0.29 U	4.6	15	2.5	0.061 U	25	2.4	9.7 J	1.5 J	4.4 J	1.5 J	0.86 U
	12/28/09	ORIG	210	8.2	0.22 U	0.22 U	61	0.16 U	0.46	0.19 U	0.24	1.4 U	0.25 U	13	40	2.5	0.052 U	18 J	0.97	4.2	0.6	1.8	0.61	0.74 U
	12/28/09	DUP	220	8.4	0.24 U	0.24 U	61	0.18 U	0.46	0.21 U	0.24	1.6 U	0.27 U	13	40	2.5	0.057 U	28 J	0.95	4.5	0.7	2.1	0.76	0.81 U
	01/27/10	ORIG	220	8.1	0.4 U	0.4 U	60	0.3 U	0.5	0.34 U	0.36 U	2.5 U	0.44 U	14	44	2.4	0.094 U	14	1	3.4	0.51	1.3	0.47	1.3 U
	01/27/10	DUP	210	7.8	0.21 U	0.21 U	57	0.16 U	0.48	0.18 U	0.24	2.1	0.24 U	13	41	2.6	0.05 U	18	1	3.5	0.5	1.3	0.45	0.71 U
	02/24/10	ORIG	60	2.5	0.18 U	0.18 U	21	0.14 U	0.51	0.15 U	0.16 U	3.2	0.2 U	4.8	15	3.2 J	0.043 U	18 J	1.3	4.1 J	0.66	2	0.7	0.6 U
	02/24/10	DUP	60	2.5	0.17 U	0.17 U	22	0.12 U	0.54	0.14 U	0.16	3.4	0.19 U	5.1	16	3.2 J	0.04 U	13 J	1.4	5.3 J	0.67	2.1	0.69	0.56 U
	03/31/10	ORIG	94	3.6	0.18 U	0.18 U	28	0.13 U	0.39	0.15 U	0.16 U	1.1 U	0.2 U	5.2	21	2.1	0.042 U	12	0.47	1.2	0.18	0.44	0.16	0.59 U
	03/31/10	DUP	96	3.7	0.2 U	0.2 U	27	0.14 U	0.4	0.16 U	0.17 U	1.2 U	0.22 U	5.5	22	2.2	0.046 U	13	0.48	1.2	0.17	0.44	0.16	0.64 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	04/28/10	ORIG	28	1.4	0.21 U	0.21 U	6.3 J	0.16 U	0.42	0.18 U	0.19 U	1.8 J	0.24 U	2.3	5.8 J	2.4	0.05 U	8.8	0.37	1.4 J	0.17 U	0.34 U	0.17 U	0.71 U
	04/28/10	DUP	28	1.4	0.2 U	0.2 U	6.6 J	0.2	0.43	0.17 U	0.18 U	2.4 J	0.22 U	2.4	5.8 J	2.5	0.048 U	9.9	0.41	16 J	0.27	0.38	0.16 U	0.67 U
	05/27/10	ORIG	84	3.2	0.2 U	0.2 U	28	0.14 U	0.53	0.16 U	0.18	1.2 U	0.22 U	4.6	15	2.8	0.046 U	22	0.64	2.5	0.32	0.75	0.26	0.64 U
	06/18/10	ORIG	1.1	0.17 U	0.18 U	0.18 U	0.065	0.13 U	0.37	0.15 U	0.16 U	1.1 U	0.19 U	1.2	0.55	2.2	0.041 U	27 J	0.44	2.2	0.2	0.44	0.22	0.58 U
	06/18/10	DUP	1.1	0.17 U	0.18 U	0.18 U	0.086	0.13 U	0.39	0.15 U	0.16 U	1.1 U	0.19 U	1.4	0.63	2.4	0.041 U	19 J	0.43	2.2	0.18	0.4	0.15	0.58 U
	06/24/10	ORIG	0.8	0.18 U	0.18 U	0.18 U	0.067 U	0.14 U	0.32	0.15 U	0.16 U	1.2 U	0.2 U	1.6	0.63	2.7	0.043 U	22 J	0.69	3.4	0.22	0.42	0.14 U	0.6 U
	06/24/10	DUP	0.77	0.18 U	0.18 U	0.18 U	0.067 U	0.14 U	0.43	0.15 U	0.16 U	1.2 U	0.2 U	1.5	0.59	2.5	0.043 U	34 J	0.65	3.2	0.21	0.42	0.15	0.6 U
	07/01/10	ORIG	0.83	0.17 U	0.18 U	0.18 U	0.072	0.13 U	0.4	0.15 U	0.17	1.5	0.19 U	1.7	0.63	2.6	0.041 U	44	0.93	4.3	0.3	0.67	0.3	0.58 U
	07/08/10	ORIG	0.4	0.19 U	0.19 U	0.19 U	0.069 U	0.14 UJ	0.4	0.16 U	0.17 U	1.2 U	0.21 U	1.6	0.72	2.5	0.045 U	20 J	0.6	1.7	0.17	0.38	0.19	0.63 U
	07/08/10	DUP	0.41	0.19 U	0.19 U	0.19 U	0.069 U	0.14 UJ	0.4	0.16 U	0.17 U	1.2 U	0.21 U	1.6	0.69	2.5	0.045 U	32 J	0.58	1.7	0.16	0.34	0.16	0.63 U
	07/28/10	ORIG	0.61	0.17 U	0.17 U	0.17 U	0.063 U	0.13 U	0.42	0.14 U	0.15 U	1.1 U	0.19 U	1.2	0.46	2.1	0.04 U	28	0.82	2.6	0.34	0.87	0.34	0.57 U
	08/27/10	ORIG	0.5	0.16 U	0.16 U	0.16 U	0.068	0.12 U	0.42	0.13 U	0.18	1.6	0.18 U	1.6 J	0.71	2.4	0.037 U	18	0.95	3.3	0.37	0.9	0.29	0.53 U
	09/29/10	ORIG	0.68	0.16 U	0.16 U	0.16 U	0.38 J	0.14	0.44	0.14 U	0.19	1.4	0.18 U	2.1	1	2.8	0.039 U	32	1.5	4.7	0.65	1.6	0.64	0.55 U
	09/29/10	DUP	0.71	0.18 U	0.18 U	0.18 U	0.17 J	0.14 U	0.53	0.15 U	0.18	1.4	0.2 U	1.9	0.82	2.7	0.043 U	30	1.5	4.6	0.67	1.8	0.65	0.6 U
	10/27/10	ORIG	1.3	0.15 U	0.15 U	0.15 U	0.59	0.11 U	0.46	0.12 U	0.3	1.5	0.16 U	2.3	3.6	2.9	0.035 U	24	5.5	15	2.1	7.3	2.2	0.49 U
	11/30/10	ORIG	0.75	0.18 U	0.18 U	0.18 U	0.11	0.18	0.44 J	0.15 U	0.16 U	1.1 U	0.2 U	1.3	0.57	2.4	0.042 U	14	2.1	5.8	1	3.4	1.1	0.59 U
	12/28/10	ORIG	1.2	0.14 U	0.15 U	0.15 U	0.21	0.18	0.82 J	0.12 U	0.18	1	0.16 U	1.5	0.73	2.7	0.034 U	18	4.5	13	1.6	5.4	1.6	0.48 U
	01/26/11	ORIG	1.2	0.18 U	0.19 U	0.19 U	0.1	0.14 U	0.49 J	0.16 U	0.19	2.8	0.2 U	1.7	0.75	2.7	0.044 U	33	2.4	7.1	0.97	2.9	0.86	0.62 U
	02/28/11	ORIG	0.64	0.19 U	0.2 U	0.2 U	0.12 J	0.14	0.4	0.16 U	0.17 U	1.2 U	0.22 U	1.5	0.62	2.4	0.046 U	12	1.3	3.2	0.51	1.6	0.55	0.64 U
	03/30/11	ORIG	0.79	0.18 U	0.19 U	0.19 U	0.14 J	0.16	0.46	0.16 U	0.7	1.6	0.26	1.4	0.59	2.4	0.044 U	22	1.4	5.6	0.71	2.1	0.85	0.62 U
	03/30/11	DUP	0.81	0.18 U	0.19 U	0.19 U	0.14 J	0.17	0.47	0.16 U	0.74	1.6	0.2 U	1.4	0.6	2.5	0.044 U	21	1.4	5.8	0.69	2.1	0.73	0.62 U
	04/29/11	ORIG	0.26	0.17 U	0.17 U	0.17 U	0.061 U	0.16	0.5 J	0.14 U	1.7	3	0.19 J	2 J	1.1	3	0.04 U	18	0.62	2	0.27	0.66	0.26	0.56 U
	05/31/11	ORIG	0.92	0.2 U	0.2 U	0.2 U	0.12	0.15 UJ	0.55 J	0.17 U	0.22	1.3 U	0.22 U	1.2	1	2.6	0.047 U	16	1.2	4.2	0.56	1.7	0.61 J	0.66 U
	05/31/11	DUP	0.92	0.18 U	0.18 U	0.18 U	0.12	0.14 J	0.55 J	0.15 U	0.23	1.1 U	0.2 U	1.1	1	2.6	0.042 U	18	1.3	4.8	0.58	1.8	0.63 J	0.59 U
	06/29/11	ORIG	0.69	0.18 U	0.18 U	0.18 U	0.067 U	0.14 U	0.6	0.16 U	0.17 U	1.2 U	0.2 UJ	1.2	1	2.5	0.043 U	21	0.7	2.5	0.4	1.2	0.54	0.61 U
	06/29/11	DUP	0.67	0.18 U	0.18 U	0.18 U	0.067 U	0.14	0.52	0.15 U	0.16 U	1.2 U	0.2 UJ	1.2	1	2.5	0.043 U	18	0.63	0.13 U	0.4	1.2	0.54	0.6 U
	07/27/11	ORIG	0.34	0.18 U	0.19 U	0.19 U	0.068 U	0.14 U	0.53 J	0.16 U	0.17 U	1.2 U	0.2 UJ	1.2	1.5	2.4	0.044 U	12	0.39	1.4 J	0.22	0.66	0.25	0.62 U
	07/27/11	DUP	0.29	0.18 U	0.19 U	0.19 U	0.068 U	0.14 U	0.53 J	0.16 U	0.17 U	1.2 U	0.2 UJ	1.3	1.6	2.6	0.044 U	12	0.36	0.8 J	0.15 U	0.3 U	0.15 U	0.62 U
	08/31/11	ORIG	0.57	0.17 U	0.18 U	0.18 U	0.064 U	0.16	0.63	0.15 U	0.16 U	1.1 U	0.19 UJ	1.9	1.4	3	0.041 U	19	0.6	2.5	0.3	0.83	0.31	0.58 U
	08/31/11	DUP	0.56	0.17 U	0.17 U	0.17 U	0.061 U	0.14	0.63	0.14 U	0.15 U	1.5	0.19 UJ	1.9	1.4	2.9	0.04 U	20	0.61	2.5	0.3	0.84	0.33	0.56 U
	09/27/11	ORIG	0.76	0.18 U	0.19 U	0.19 U	0.069	0.17 J	0.5	0.16 U	0.34	2	0.2 U	1.5	0.59	2.6	0.044 U	36	1.8	6	1	3.1	1.3	0.62 U
	09/27/11	DUP	0.73	0.19 U	0.19 U	0.19 U	0.069 U	0.44 J	0.49	0.16 U	0.34	2	0.21 U	1.5	0.6	2.6	0.045 U	36	1.9	6.3	1.1	3.2	1.4	0.63 U
	12/21/11	ORIG	0.49	0.18 U	0.18 U	0.18 U	0.067 U	0.24	0.9	0.16 U	0.2	1.2 U	0.2 U	1.4	0.84	2.8	0.043 U	19	2.7	7.7	1.2	4	1.4	0.61 U
	12/21/11	DUP	0.47	0.18 U	0.18 U	0.18 U	0.067 U	0.24	0.8	0.16 U	0.19	1.2 U	0.2 U	1.4	0.83	2.9	0.043 U	20	2.7	7.9	1.2	4.2	1.4	0.61 U

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Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
Interior Store																								
	09/08/06	ORIG	29	1.5	0.19	0.18 U	14	0.13 U	0.51	0.15 U	0.18	1.7	0.21	3.7	10	2.7	0.041 U	28	1.2	8.4	1.7	4.9	1.7	0.67
	03/03/09	ORIG	72	3.9	0.2 U	0.2 U	31	0.15 U	0.52	0.17 U	0.24	1.8	0.22 U	7.2	21	2.4	0.047 U	24	1.8	9.8	2.4	6.6	2.2	0.69
	07/16/09	ORIG	16	0.89	0.18 U	0.18 U	3.9	0.13 U	0.58	0.15 U	0.22	1.5	0.2 U	2.2	2.5	2.5	0.042 U	26	1.5	7.8	1	3	0.83	0.59 U
	08/25/09	ORIG	17	1.3	0.28 U	0.28 U	4	0.21 U	0.49	1.2 U	0.33	2.4	1.6 U	2.2	2.9	2.4	0.066 U	71	2.6	8.8	1.6	4.3	1.7	0.93 U
	09/30/09	ORIG	36	2	0.19 U	0.19 U	7.8	0.14 U	0.61	0.16 U	0.21	7.9	0.21 U	2.3	5.9 J	2.7	0.045 U	32	1.1	5.8	0.85	2.3	0.7	0.63 U
	10/29/09	ORIG	82	3.9	0.18 U	0.18 U	14 J	0.14 U	0.51	0.15 U	0.27	2	0.2 U	3.6	15	2.3	0.043 U	26	2.5	9.7	1.4	4.3	1.3	0.6 U
	11/24/09	ORIG	130	6.6	0.23	0.2 U	34	0.15 U	0.49	0.17 U	0.44	2.8	0.23	7	22	2.7	0.047 U	35	3.3	19	2.6	8.1	2.6	0.66 U
	12/28/09	ORIG	180	9.7	0.36	0.24 U	69	0.18 U	0.44	0.2 U	0.46	1.6	0.26 U	15	44	2.6	0.056 U	40	1.5	7.4	1.6	4.6	1.5	0.79 U
	01/27/10	ORIG	100	5.4	0.23	0.2 U	34	0.14 U	0.48	0.16 U	0.41	3.1	0.22 U	7.6 J	19	2.5	0.046 U	30	1.7	10	1.5	4.2	1.3	0.64 U
	02/24/10	ORIG	40	2.1	0.2 U	0.2 U	14	0.14 U	0.53	0.16 U	0.19	5	0.22 U	3.5	8.9	2.6 J	0.046 U	16	1.5	5.4	0.86	2.8	0.91	0.64 U
	03/31/10	ORIG	16 J	0.95 J	0.15 UJ	0.15 UJ	6.1 J	0.13 J	0.44 J	0.12 UJ	0.13 UJ	1.1 J	0.16 UJ	2.1 J	4.4 J	2.2 J	0.034 UJ	14 J	0.65 J	7.3 J	0.41 J	0.97 J	0.3 J	0.48 UJ
	04/28/10	ORIG	23	1.4	0.19 U	0.19 U	6.9 J	0.14 U	0.41	0.16 U	0.17 U	3.4	0.2 U	2.2	4.8 J	2.4	0.044 U	19	0.47	1.6	0.37	0.8	0.22	0.62 U
	05/27/10	ORIG	26	1.3	0.18 U	0.18 U	8.5 J	0.13 U	0.53	0.15 U	0.2	1.4	0.19 U	2.7	5.2	2.8	0.041 U	18	0.72	3.8	0.63	1.5	0.46	0.58 U
	06/18/10	ORIG	1.8	0.17 U	0.17 U	0.17 U	0.24	0.12	0.38	0.14 U	0.16	1.1 U	0.19 U	1.4	0.7	2.3	0.04 U	22	0.61	3.7	0.35	0.84	0.36	0.56 U
	06/24/10	ORIG	1.3	0.18 U	0.18 U	0.18 U	0.22	0.13 U	0.42	0.15 U	0.16 U	1.3	0.2 U	1.8	0.7	2.7	0.042 U	25	0.75	3.7	0.32	0.65	0.2	0.59 U
	07/01/10	ORIG	1.1	0.18 U	0.18 U	0.18 U	0.17	0.14 U	0.4	0.15 U	0.2	1.8	0.2 U	1.8	0.66	2.6	0.043 U	34	1.1	6.6	0.6	1.5	0.44	0.6 U
	07/08/10	ORIG	0.62	0.2 U	0.2 U	0.2 U	0.072 U	0.15 UJ	0.39	0.17 U	0.18 U	2	0.22 U	1.7	0.75	2.6	0.047 U	30	0.81	2.6	0.37	0.74	0.29	0.66 U
	07/28/10	ORIG	1.1	0.15 U	0.15 U	0.15 U	0.19	0.11 U	0.43	0.13 U	0.14	1.3	0.17 U	1.3	0.46	2	0.036 U	28	1.1	5.8	1	3.3	1.1	0.51 U
	08/27/10	ORIG	0.69	0.17 U	0.18 U	0.18 U	0.14	0.13 U	0.41	0.15 U	0.24	2	0.19 U	1.6 J	0.7	2.3	0.041 U	20	1.2	4.4	0.6	1.4	0.45	0.58 U
	09/29/10	ORIG	0.92	0.17 U	0.18 U	0.18 U	0.24	0.13 U	0.45	0.15 U	0.22	1.8	0.19 U	2	0.87	2.8	0.041 U	31	2	6.6	1	2.5	0.84	0.58 U
	10/27/10	ORIG	0.77	0.18 U	0.18 U	0.18 U	0.19	0.14 U	0.45	0.15 U	0.19	1.4	0.2 U	2	1.6	2.6	0.043 U	18	2	5.9	1	3	0.9	0.6 U
	11/30/10	ORIG	1.9	0.17 U	0.18 U	0.18 U	0.51	0.18	0.43 J	0.15 U	0.17	1.2	0.19 U	1	0.61	2.4	0.041 U	21	2.5	7.2	1.4	4.6	1.4	0.58 U
	12/28/10	ORIG	1.6	0.18 U	0.18 U	0.18 U	0.2	0.26	0.47 J	0.15 U	0.18	1.7	0.2 U	1.4	0.66	2.6	0.042 U	26	3.3	22	2.2	5.6	2.2	0.59 U
	01/26/11	ORIG	8.4	0.17 U	0.18 U	0.18 U	0.23	0.13 U	0.5 J	0.15 U	0.25	2.7	0.19 U	1.8	1.2	2.6	0.041 U	35	3.6	12	2	6.2	1.6	0.58 U
	02/28/11	ORIG	0.83	0.19 U	0.19 U	0.19 U	0.14 J	0.14	0.38	0.16 U	0.17 U	1.2 U	0.21 U	1.5	0.64	2.4	0.045 U	13	1.5	4.3	0.89	2.7	0.91	0.63 U
	03/30/11	ORIG	1.4	0.18 U	0.18 U	0.18 U	0.28 J	0.14 U	0.46	0.15 U	0.31	1.7	0.2 U	0.83	0.6	2.3	0.043 U	19	1.5	6.9	1.1	3.4	1	0.6 U
	04/29/11	ORIG	0.64 J	0.17 U	0.18 U	0.18 U	0.088	0.13 U	0.47 J	0.15 U	0.22 J	1.8	0.19 J	2 J	2.6 J	3	0.041 U	21 J	0.87 J	5.2 J	0.74 J	1.6 J	0.47 J	0.58 U
	04/29/11	DUP	0.26 J	0.17 U	0.17 U	0.17 U	0.07	0.14	0.5	0.14 U	1.8 J	1.1	0.19 UJ	2	1.2 J	3	0.04 U	16 J	0.55 J	2.1 J	0.18 J	0.43 J	0.15 J	0.56 U
	05/31/11	ORIG	2	0.2 U	0.2 U	0.2 U	0.38	0.15 UJ	0.53 J	0.17 U	0.2	2.2	0.22 U	1.3	1.7	2.7	0.047 U	20	1.7	6.8	1.2	3.6	1.2 J	0.66 U
	06/29/11	ORIG	0.87	0.18 U	0.18 U	0.18 U	0.09	0.13	0.5	0.15 U	0.16 U	1.4	0.2 UJ	1.3	1.7	2.5	0.042 U	21	0.88	3.8	0.97	2.9	1	0.6 U
	07/27/11	ORIG	0.58	0.16 U	0.16 U	0.16 U	0.062	0.12 U	0.5 J	0.13 U	0.14 U	1.4	0.18 UJ	1.2	5.9	2.4	0.037 U	19	0.49	2.9	0.75	2.1	0.67	0.53 U
	08/31/11	ORIG	0.98	0.17 U	0.17 U	0.17 U	0.092	0.14	0.61	0.14 U	0.17	1.3	0.19 UJ	1.8	3	3	0.04 U	27	0.7	3	0.68	1.7	0.58	0.56 U
	09/27/11	ORIG	0.91	0.18 U	0.19 U	0.19 U	0.093	0.17	0.49	0.16 U	0.35	2.3	0.2 U	1.5	0.7	2.6	0.044 U	43	2	7.5	1.6	5.1	1.7	0.62 U
	12/21/11	ORIG	0.65	0.19 U	0.19 U	0.19 U	0.069 U	0.27	0.62	0.16 U	0.21	1.2 U	0.21 U	1.4	0.98	2.9	0.045 U	37	2.8	8.4	1.5	4.8	1.5	0.63 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
Warehouse																								
	09/08/06	ORIG	7.1	0.44	0.18 U	0.18 U	3.6	0.13 U	0.54	0.15 U	0.16 U	1.1 U	0.19 U	2.2	3.4	2.9	0.041 U	31	1.2	6.9	1	3.7	1.4	0.58 U
	03/03/09	ORIG	6	0.48	0.18 U	0.18 U	2.4	0.14 U	0.53	0.15 U	0.16 U	1.2 U	0.2 U	2.9	2.3	2.4	0.043 U	12	1.4	6.3	0.85	2.7	1	0.6 U
	07/16/09	ORIG	4.3	0.32	0.2 U	0.2 U	0.96	0.15 U	0.58	0.17 U	0.18 U	1.3 U	0.22 U	1.8	0.92	2.5	0.047 U	23	1.2	5.2	0.56	1.4	0.5	0.66 U
	08/25/09	ORIG	5.7	0.72	0.18 U	0.18 U	1.2	0.14 U	0.78	0.77 U	0.28	1.2	1.3	1.9	1.4	2.4	0.043 U	22	2.3	8.6	1.4	3.8	1.4	0.6 U
	09/30/09	ORIG	8.5	0.69	0.2 U	0.2 U	1.8	0.14 U	0.6	0.16 U	0.17 U	1.2 U	0.22 U	1.8	2.6 J	2.8	0.046 U	18	0.9	4.1	0.42	0.94	0.33	0.64 U
	10/29/09	ORIG	8.9	0.82	0.16 U	0.16 U	1.5 J	0.12 U	0.5	0.14 U	0.17	1 U	0.18 U	1.6	6.1	2.5	0.038 U	21	2	8.8	0.8	2.4	0.84	0.54 U
	11/24/09	ORIG	9.5	0.72	0.19 U	0.19 U	1.8	0.14 U	0.46	0.16 U	0.24	1.2 U	0.2 U	1.9	1.9	2.5	0.044 U	29	2	9.3	1.1	3.2	1.1	0.62 U
	12/28/09	ORIG	20	0.93	0.19 U	0.19 U	5.8	0.14 U	0.43	0.16 U	0.17 U	1.2 U	0.21 U	2.8	5.4	2.4	0.044 U	20	1.1	3.8	0.65	1.8	0.68	0.62 U
	01/27/10	ORIG	8.4	0.45	0.18 U	0.18 U	2.2	0.13 U	0.45	0.15 U	0.16 U	3	0.2 U	1.9 J	2	2.4	0.042 U	22	0.97	7.5	0.61	1.6	0.6	0.59 U
	02/24/10	ORIG	12	0.78	0.16 U	0.16 U	3.7	0.12 U	0.52	0.14 U	0.15 U	1	0.18 U	2	3.1	2.8 J	0.039 U	14	1.4	6.7	0.76	2.3	0.75	0.55 U
	03/31/10	ORIG	6.9	0.5	0.15 U	0.15 U	2.9	0.13	0.38	0.13 U	0.14 U	2	0.17 U	1.6	2.8	2.3	0.036 U	11	0.47	3.4	0.3	0.97	0.27	0.51 U
	04/28/10	ORIG	2.9	0.28	0.2 U	0.2 U	0.77 J	0.15 U	0.41	0.17 U	0.18 U	1.3 U	0.22 U	1.5	1.3 J	2.5	0.048 U	7.2	0.38	1	0.16 U	0.32 U	0.16 U	0.67 U
	05/27/10	ORIG	3.9	0.34	0.18 U	0.18 U	1.2 J	0.13 U	0.56	0.15 U	0.16 U	1.1 U	0.19 U	1.9	1.5	3	0.041 U	22	0.62	3.1	0.3	0.73	0.24	0.58 U
	06/18/10	ORIG	0.43	0.19 U	0.19 U	0.19 U	0.069 U	0.14 U	0.36	0.16 U	0.17 U	1.2 U	0.21 U	1.3	0.54	2.3	0.045 U	27	0.43	4.1	0.24	0.52	0.18	0.63 U
	06/24/10	ORIG	0.34	0.18 U	0.19 U	0.19 U	0.068 U	0.14 U	0.41	0.16 U	0.17 U	1.2 U	0.2 U	1.7	0.63	2.6	0.044 U	30	0.71	3.9	0.25	0.48	0.15	0.62 U
	07/01/10	ORIG	0.38	0.15 U	0.15 U	0.15 U	0.054 U	0.11 U	0.35	0.12 U	0.16	1.2	0.16 U	1.6	0.53	2.4	0.035 U	27	0.97	4.6	0.3	0.66	0.21	0.49 U
	07/08/10	ORIG	0.23	0.17 U	0.17 U	0.17 U	0.063 U	0.13 UJ	0.43	0.14 U	0.15 U	1.2	0.19 U	1.8	0.76	2.8	0.04 U	20	0.69	2.3	0.2	0.45	0.19	0.57 U
	07/28/10	ORIG	0.38	0.16 U	0.16 U	0.16 U	0.059 U	0.12 U	0.48	0.14 U	0.14 U	1.3	0.18 U	1.2	0.46	2	0.038 U	52	0.69	2.5	0.39	1	0.38	0.54 U
	08/27/10	ORIG	0.38	0.18 U	0.19 U	0.19 U	0.08	0.14 U	0.42	0.16 U	0.19	1.2	0.2 U	1.7	0.72	2.2	0.044 U	16	0.91	3.5	0.38	0.88	0.29	0.62 U
	09/29/10	ORIG	0.68	0.19 U	0.19 U	0.19 U	0.5	0.14 U	0.49	0.16 U	0.18	1.2	0.21 U	1.8	1.1	2.7	0.045 U	33	1.4	4.8	0.67	1.8	0.63	0.63 U
	10/27/10	ORIG	0.4	0.18 U	0.18 U	0.18 U	0.096	0.14 U	0.44	0.15 U	0.16 U	1.2 U	0.2 U	1.5	1.1	2.7	0.043 U	10	1.6	4.1	0.58	1.6	0.6	0.6 U
	11/30/10	ORIG	0.87	0.18 U	0.18 U	0.18 U	0.11	0.19	0.45 J	0.15 U	0.16 U	1.1 U	0.2 U	1	0.54	2.5	0.042 U	18	2.2	5.8	0.95	3	0.99	0.59 U
	12/28/10	ORIG	0.93	0.14 U	0.15 U	0.15 U	0.12	0.11	0.48 J	0.12 U	0.13 U	0.93 U	0.16 U	1.4	0.61	2.7	0.034 U	13	2.2	6	0.76	2.2	0.71	0.48 U
	01/26/11	ORIG	1.1	0.19 U	0.19 U	0.19 U	0.11	0.14 U	0.46 J	0.16 U	0.18	2.2	0.21 U	1.7	0.73	2.7	0.045 U	24	2.2	6.6	0.83	2.3	0.68	0.63 U
	02/28/11	ORIG	0.57	0.19 U	0.2 U	0.2 U	0.12 J	0.14 U	0.32	0.16 U	0.17 U	1.2 U	0.22 U	1.6	0.61	2.4	0.046 U	9.3	1.2	2.8	0.44	1.3	0.45	0.64 U
	03/30/11	ORIG	0.78	0.17 U	0.17 U	0.17 U	0.061 U	0.12 U	0.48	0.14 U	0.22	2.9	0.19 U	1.5	0.72	2.5	0.04 U	21	1.2	9.8	0.69	1.8	0.72	0.56 U
	04/29/11	ORIG	0.2 J	0.14 UJ	0.15 UJ	0.15 UJ	0.053 UJ	0.15 J	0.47 J	0.12 UJ	0.16 J	7.1 J	0.16 UJ	2 J	0.82 J	3 J	0.034 UJ	13 J	0.62 J	2.5 J	0.29 J	0.65 J	0.2 J	0.48 UJ
	05/31/11	ORIG	0.96	0.2 U	0.21 U	0.21 U	0.11	0.15 UJ	0.5 J	0.18 U	0.19 U	1.3 U	0.23 U	1.2	0.78	2.5	0.049 U	14	1.2	4.2	0.57	1.6	0.56 J	0.69 U
	06/29/11	ORIG	0.67	0.18 U	0.18 U	0.18 U	0.071	0.14 U	0.6	0.15 U	0.16 U	1.2	0.2 UJ	1.2	0.66	2.4	0.043 U	15	0.63	2.5	0.38	1.2	0.42	0.6 U
	07/27/11	ORIG	0.27	0.19 U	0.19 U	0.19 U	0.069 U	0.14 U	0.48 J	0.16 U	0.17 U	1.2 U	0.21 UJ	1.2	0.64	2.4	0.045 U	14	0.44	2	0.25	0.71	0.26	0.63 U
	08/31/11	ORIG	0.44	0.17 U	0.18 U	0.18 U	0.064 U	0.14	0.61	0.15 U	0.16 U	1.1 U	0.19 UJ	1.8	0.96	3	0.041 U	14	0.68	2.3	0.33	0.89	0.31	0.58 U
	09/27/11	ORIG	0.74	0.19 U	0.19 U	0.19 U	0.069 U	0.17	0.44	0.16 U	0.28	2	0.21 U	1.3	0.54	2.3	0.045 U	31	1.8	6.1	0.99	3	1.1	0.63 U
	12/21/11	ORIG	0.45	0.19	0.19 U	0.19 U	0.068 U	0.26	0.76	0.16 U	0.16 J	1.2 U	0.21 U	1.4	0.7	2.8	0.044 U	20	2.6	7.6	1.1	3.6	1.2	0.62 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
Former OCMA/Current Tomacico																								
Admin Office																								
	09/08/06	ORIG	0.43 U	0.34 U	0.34 U	0.34 U	0.2	0.26 U	0.52	0.29 U	0.66	2.2 U	0.38 U	1.7	1.2	2.9	0.081 U	95	1.2	16	1	3	1.2	1.1 U
	03/31/10	ORIG	0.61 U	0.48 U	0.49 U	0.49 U	1.1	0.36 U	0.56 U	0.41 U	1.2	3.1 U	0.54 U	6.5	2.3	14	0.11 U	90	0.72 U	3.7	0.44	0.78 U	0.39 U	1.6 U
	04/29/11	ORIG	0.24	0.18 U	0.18 U	0.18 U	0.065 U	0.13	0.47	0.15 U	1.1	1.1 U	0.2 UJ	2	0.68	2.9	0.042 U	25	0.61	2.2	0.18	0.48	0.16	0.59 U
Nurses Station																								
	09/08/06	ORIG	0.44	0.35 U	0.35 U	0.35 U	0.23	0.32	0.5	0.3 U	0.57	2.2 U	0.39	1.8	1.6	3.4	0.082 U	99	1.1	17	0.94	3.1	1.3	1.2 U
	03/31/10	ORIG	9.5 U	7.5 U	7.6 U	7.6 U	1.6 J	5.7 U	8.8 U	6.4 U	6.8 U	4.9 U	8.4 U	3.5 J	11 U	5.5 J	3.6 U	51	0.79 J	3.7 J	0.57 J	1 J	6.1 U	5 U
	04/29/11	ORIG	0.22 U	0.18 U	0.18 U	0.18 U	0.065 U	0.13	0.46	0.15 U	0.55	1.1 U	0.2 UJ	2	0.66	2.9	0.042 U	24	0.62	2.2	0.18	0.51	0.16	0.59 U
Tomacico Admin Office																								
	09/27/11	ORIG	0.55	0.18 U	0.18 U	0.18 U	0.089	0.45	0.47	0.15 U	5.6	6.7	0.2 U	2	0.67	2.4	0.043 U	140 E	1.6	14	1.6	6	3.2	0.6 U
Fred R. Rippy Company																								
Front Office																								
	07/01/10	ORIG	12	140	0.18 U	0.18 U	9.7	0.6	0.4	0.15 U	0.33	2.1	8.8	4	7.1	2.7	0.043 U	36 J	0.94	3.2	0.3	0.73	0.29	0.6 U
	07/01/10	DUP	12	140	0.18 U	0.18 U	10	0.59	0.41	0.15 U	0.33	1.7	9.4	4.1	7.6	2.6	0.043 U	49 J	0.92	3	0.3	0.74	0.25	0.6 U
	08/27/10	ORIG	1.2	6.1	0.19 U	0.19 U	0.63	0.25	0.42	0.16 U	0.18	1.2 U	1.1	1.6	0.96	2.2	0.044 U	19	1	3.3	0.37	0.92	0.3	0.62 U
	08/27/10	DUP	1.2	6.3	0.18 U	0.18 U	0.64	0.24	0.43	0.15 U	0.18	1.2 U	1.2	1.7	1	2.3	0.043 U	19	1	3.4	0.4	0.95	0.3	0.6 U
	11/30/10	ORIG	34 J	2.8	0.15 U	0.15 U	18	0.39	0.42 J	0.12 U	0.39	1.8	4.7	3.5	8.7	2.6	0.035 U	69 EJ	4.7	12	1.5	5.6	2	0.49 U
	11/30/10	DUP	42 J	3.3	0.18 U	0.18 U	22	0.38	0.46 J	0.15 U	0.45	1.1 U	5.2	4.1	10	2.6	0.041 U	99 EJ	4.8	10	1.4	5	1.8	0.58 U
	01/26/11	ORIG	28	2.2	0.21	0.18 U	15	0.48	0.51 J	0.15 U	0.44	2	4.8	4.5	8.4	2.6	0.041 U	170 E	3.3	11	1.5	5.5	1.9	0.58 U
	01/26/11	DUP	29	2.3	0.21	0.18 U	15	0.39	0.52 J	0.15 U	0.45	1.9	5.2	4.5	8.5	2.7	0.043 U	170 E	3.3	11	1.5	5.6	2.1	0.6 U
	02/28/11	ORIG	25 J	2.1 J	0.15 U	0.15 U	18 J	0.2	0.37	0.12 U	0.42	0.92 J	2.9	4.4 J	8.2 J	2.5	0.034 U	27 J	2.4	7 J	1 J	3.5 J	1.2 J	0.48 U
	02/28/11	DUP	47 J	3.8 J	0.18 U	0.18 U	33 J	0.25	0.41	0.15 U	0.52	1.1 U	3.2	6.8 J	14 J	2.4	0.041 U	44 J	2	5.7 J	0.81 J	2.7 J	0.92 J	0.58 U
	03/30/11	ORIG	36	2.9	0.35 U	0.35 U	31 J	0.48	0.5	0.3 U	0.46	2.2 U	15 J	4.7	12	2.5	0.082 U	100	1.2	5.1	0.56	1.6	0.55 J	1.2 U
	03/30/11	DUP	36	3	0.35 U	0.35 U	30 J	0.37	0.51	0.3 U	0.45	2.2 U	6.6 J	4.6	12	2.6	0.082 U	100	1.3	5.2	0.54	1.5	0.48 J	1.2 U
	04/29/11	ORIG	31	2.4	0.19 U	0.19 U	18	0.34 J	0.47 J	0.16 U	0.43	1.2 U	9.7 J	5.8 J	9.2	2.8	0.044 U	38	0.63	3.8 J	0.25 J	0.64 J	0.2	0.62 U
	04/29/11	DUP	27	2.1	0.18 U	0.18 U	15	0.6 J	0.45 J	0.15 U	0.39	1.2	8.4 J	5.1 J	7.8	2.7	0.041 U	35	0.68	10 J	0.56 J	1 J	0.32	0.58 U
	05/31/11	ORIG	45	3.1	0.25	0.18 U	23	0.3 J	0.51 J	0.15 U	0.51	1.1 U	24	3.1	7.7	2.5	0.042 U	38	1.2	4.7	0.64	2	0.71 J	0.59 U
	06/29/11	ORIG	24	1.8	0.17 U	0.17 U	11	0.41	0.54	0.14 U	0.29	1.1 U	13 J	2.6	4.3	2.5	0.039 U	58	0.71	2.8	0.45	1.4	0.59	0.55 U
	07/27/11	ORIG	19	1.4	0.16 U	0.16 U	8.9	0.12 U	0.56 J	0.13 U	0.28	1.2	15 J	2.4	3.7	2.5	0.037 U	26	0.42	1.8	0.32	0.99	0.37	0.53 U
	08/31/11	ORIG	24	1.8	0.17 U	0.17 U	11	0.45	0.63	0.14 U	0.33	1.2	15 J	6.7	4.5	2.9	0.04 U	32	0.61	2.5	0.39	1.1	0.4	0.57 U
	09/27/11	ORIG	22	1.8	0.19 U	0.19 U	11	0.39	0.49	0.16 U	0.5	2.3	13	2.7	3.9	2.5	0.044 U	49	2.1	7.4	1.4	5	2.2	0.62 U
	09/27/11	DUP	21	1.8	0.18 U	0.18 U	10	0.39	0.48	0.15 U	0.5	2.3	12	2.7	4	2.5	0.043 U	48	2	7.2	1.3	4.7	2.1	0.6 U
	10/28/11	ORIG	26	2.1	0.18 U	0.18 U	13	0.34 J	0.51	0.15 U	0.51	1.6	1.8 J	3.1	4.5	2.6	0.043 U	78	3.2	10	1.4 J	4.6 J	1.6 J	0.6 U
	10/28/11	DUP	26	2	0.17 U	0.17 U	12	0.32 J	0.5	0.14 U	0.51	1.7	6.7 J	2.8	4.3	2.5	0.04 U	73	3.1	10	1.9 J	7.2 J	2.7 J	0.57 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	11/30/11	ORIG	85	6.4	0.2 U	0.2 U	37	0.42	0.5	0.17 U	0.95	2.1	6.7 J	5.7	14	2.5	0.047 U	77 J	3.2	12	1.9	6.1	2.2	0.66 U
	11/30/11	DUP	84	6.3	0.2 U	0.2 U	37	0.43	0.5	0.17 U	0.99	2	5 J	5.5	14	2.5	0.047 U	100 E	3.2	12	1.8	6	2.2	0.66 U
	12/21/11	ORIG	35	2.6	0.18 U	0.18 U	16	0.38	0.8	0.16 U	0.45	1.2 U	5.5 J	3.4	6.5	2.6	0.043 U	27	3	9.6	1.5	5.4	1.8	0.61 U
	12/21/11	DUP	35	2.8	0.18 U	0.18 U	18	0.42	0.87	0.16 U	0.48	1.2 U	2.7 J	3.6	6.9	2.8	0.043 U	32	3.3	10	1.5	5.1	1.7	0.61 U
Production Area																								
	07/01/10	ORIG	14	990	4.7 U	4.7 U	5.7	3.5 U	5.4 U	3.9 U	4.2 U	5.1	5.1 U	4.8 U	6.6 U	4.2 U	2.2 U	30	2.7 U	4.6	3.7 U	3.7 U	3.7 U	3.1 U
	08/27/10	ORIG	5.9	130	0.19 U	0.19 U	2.4	0.14 U	0.4	0.16 U	0.17	1.4	1	2	1.8	2.3	0.044 U	16	1	2.9	0.35	0.89	0.28	0.62 U
	11/30/10	ORIG	37	3.7	0.45	0.15 U	14	0.21	0.42 J	0.43	0.36	1.2	12	2.9	6.6	2.5	0.034 U	140 E	8.4	19	1.8	6.7	2.8	0.48 U
	01/26/11	ORIG	30	2.5	0.61	0.19 U	9.5	0.26	0.51 J	0.18	0.4	1.9	6.6	3.7	5.4	2.6	0.045 U	270 E	2.8	16	1.8	6.2	2.4	0.63 U
	02/28/11	ORIG	51	4.3	0.28	0.18 U	24 J	0.24	0.41	0.15 U	0.44	1.1 U	1.5	5	9.2	2.3	0.042 U	160 E	2	6.1	0.71	2.2	0.72	0.59 U
	03/30/11	ORIG	32	3	1.5 U	1.5 U	10 J	1.1 U	1.7 U	1.2 U	1.3 U	9.4 U	19	3.9	5.2	2.4	0.35 U	140	2.2 U	5.1	1.2 U	2.4 U	1.2 U	4.9 U
	04/29/11	ORIG	10	0.77	0.19 U	0.19 U	3.1	0.15	0.44 J	0.16 U	0.16	1.2 U	2.7 J	2.6 J	1.9	2.8	0.044 U	210 E	0.66	3.9	0.22	0.58	0.19	0.62 U
	05/31/11	ORIG	35	2.3	1.2	0.18 U	13	0.14 J	0.5 J	0.15 U	0.4	1.6	29	2.5	4.8	2.5	0.043 U	32	1.2	5.2	0.69	2.6	1.1 J	0.6 U
	06/29/11	ORIG	13	0.96	0.18 U	0.18 U	3.8	0.13 U	0.53	0.15 U	0.2	1.2 U	2.6 J	1.8	1.8	2.5	0.042 U	130 E	0.74	9.9	1.5	2.7	0.81	0.6 U
	07/27/11	ORIG	6.7	0.48	0.16 U	0.16 U	1.9	0.12 U	0.57 J	0.14 U	0.14 U	1.3	5.2 J	1.5	1.1	2.6	0.038 U	13	0.45	1.6	0.25	0.8	0.29	0.54 U
	08/31/11	ORIG	16	1	0.16 U	0.16 U	4.2	0.13	0.55	0.14 U	0.21	4.2	4.3 J	11	1.8	2.8	0.038 U	24	0.7	4.1	0.51	1.5	0.64	0.54 U
	09/27/11	ORIG	24	1.8	0.18 U	0.18 U	7.6	0.16	0.47	0.15 U	0.5	2.8	4.4	2.4	3	2.5	0.043 U	45	2.2	6.7	1.1	3.7	1.5	0.6 U
	10/28/11	ORIG	20	1.6	0.18 U	0.18 U	6.6	0.15 J	0.5	0.15 U	0.41	1.4	3.4 J	2	2.4	2.5	0.043 U	150 E	3.6	11	2.3	8	3.1	0.6 U
	11/30/11	ORIG	82	5.4	0.2 U	0.2 U	23	0.18	0.47	0.17 U	0.74	1.8	5.6 J	4	7.5	2.4	0.047 U	92 E	2.8	9.6	1.5	5	1.9	0.66 U
	12/21/11	ORIG	17	2	0.18 U	0.18 U	10	0.3	0.72	0.15 U	0.39	1.4	0.19 U	2.5	3.7	2.7	0.041 U	37	2.5	3.6	0.14 U	0.28 U	0.14 U	0.58 U
Warehouse																								
	07/01/10	ORIG	12	410	7.6 U	7.6 U	5.6 U	5.7 U	8.8 U	6.4 U	6.8 U	4.9 U	8.4 U	7.9 U	11 U	6.9 U	3.6 U	47	4.5 U	9.2	6.1 U	6.1 U	6.1 U	5 U
	08/27/10	ORIG	11	65	1.8 U	1.8 U	2	1.4 U	2.1 U	1.5 U	1.6 U	12 U	2 U	2.6	2.8	2.3	0.43 U	24	2.7 U	7.7	1.4 U	3.2	1.5	6 U
	11/30/10	ORIG	13	1.9	0.94	0.18 U	4.6	0.18	0.46 J	0.53	0.27	1.1 U	6.9	2.1	4.4	2.4	0.042 U	27	3	24	1.3	4.6	2	0.59 U
	01/26/11	ORIG	12	2.1	0.91	0.18 U	3.3	0.2	0.5 J	0.47	0.29	1.6	5.6	2.6	3.1	2.6	0.042 U	59	3	20	2	6.8	2.7	0.59 U
	02/28/11	ORIG	9.7	1.4	0.9	0.16 U	4 J	0.13	0.43	0.15	0.25	1 U	1	2.4	2.8	2.4	0.037 U	21	1.9	10	0.76	2.5	0.92	0.53 U
	03/30/11	ORIG	9.2	3.5	1.7 U	1.7 U	2.6 J	1.3 U	2 U	1.4 U	1.5 U	11 U	4.7	2.6	2.4 J	2.5	0.4 U	32	2.5 U	5.4	1.4 U	2.7 U	1.4 U	5.7 U
	04/29/11	ORIG	1.6	1.7	0.21	0.15 U	0.31	0.11 U	0.48 J	0.12 U	0.15	0.93 U	2.9 J	2 J	1.1	2.8	0.034 U	15	0.57	1.4	0.27	0.96	0.38	0.48 U
	05/31/11	ORIG	4.4	0.39	0.78	0.18 U	1.2	0.13 UJ	0.52 J	0.15 U	0.26	1.3	6	1.4	1.2	2.6	0.042 U	18	1.4	5.6	0.76	3	1.3 J	0.59 U
	06/29/11	ORIG	6.8	0.6	0.18 U	0.18 U	1.7	0.14 U	0.53	0.15 U	0.16 U	1.2 U	0.22 J	1.6	1.4	2.4	0.043 U	23	0.62	2.9	0.49	1.4	0.54	0.6 U
	07/27/11	ORIG	6.2	0.52	0.16 U	0.16 U	1.5	0.12 U	0.5 J	0.14 U	0.14 U	1.3	1.3 J	1.4	1.2	2.2	0.038 U	9.1	0.68	2.7	0.43	1.2	0.48	0.54 U
	08/31/11	ORIG	11	0.86	0.18 U	0.18 U	2.7	0.13 U	0.6	0.15 U	0.22	1.1 U	3.5 J	9.9	2.1	3	0.041 U	14	0.72	2.1	0.38	1.1	0.48	0.58 U
	09/27/11	ORIG	11	1.1	0.19 U	0.19 U	3.2	0.15	0.5	0.16 U	0.46	2.4	1.2	2	2.1	2.3	0.044 U	34	2.2	6.4	0.97	2.9	1.1	0.62 U
	10/28/11	ORIG	8.4	0.77	0.18 U	0.18 U	2.4	0.14 J	0.49	0.15 U	0.34	1.3	1 J	1.7	1.6	2.4	0.042 U	45	3	9.4	1.6	6.1	2.2	0.59 U
	11/30/11	ORIG	34	3.1	0.18 U	0.18 U	10	0.3	0.39	0.15 U	0.65	2.4	5 J	3	5.3	2.4	0.043 U	100 E	3.3	16	2.1	6.7	2.4	0.6 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	12/21/11	ORIG	11	1.1	0.18 U	0.18 U	3.8	0.22	0.78	0.15 U	0.3	1.1 U	5	2	2.2	2.8	0.042 U	30	3.6	13	1.8	6.2	2.1	0.59 U
InterHealth Former MRI Building																								
Open Office																								
	04/29/11	ORIG	0.2 U	0.15 U	0.16 U	0.16 U	0.057 U	0.15	0.44	0.13 U	0.17	2.9	0.17 UJ	20	0.61	2.7	0.037 U	16	0.66	4.8	0.31	0.56	0.18	0.52 U
Waiting Room T11033																								
	04/29/11	SPLIT	0.23	0.095	0.11 U	0.11 U	0.04 U	0.081 U	0.55	0.092 U	0.12	0.69 U	0.12 J	24 J	0.63	18 J	0.026 U	10 J	0.65	2 J	0.35 J	1.1 J	0.44	0.36 U
	04/29/11	ORIG	0.2 U	0.16 U	0.16 U	0.16 U	0.059 U	0.13	0.47	0.14 U	0.14 U	1 U	0.18 UJ	30 J	0.64	2.7 J	0.038 U	13 J	0.54	1.5 J	0.16 J	0.39 J	0.13 U	0.54 U
LA Carts																								
Admin Office																								
	09/08/06	ORIG	0.24	1.2	0.15 U	0.15 U	0.06	0.11 U	0.5	0.12 U	0.14	5.2	0.16	1.5	0.7	2.6	0.034 U	74 E	1.6	10	1.2	4.5	1.7	0.48 U
	03/31/10	ORIG	0.25 U	0.66	0.2 U	0.2 U	0.2	0.16	0.38	0.17 U	0.18 U	1.6	0.22 U	1	0.79	2	0.048 U	12	0.55	5.7	0.2	0.46	0.16 U	0.67 U
Large Production Room																								
	09/08/06	ORIG	1.6	0.38 U	0.39 U	0.39 U	2.5	0.29 U	0.52	0.33 U	0.37	5.9	0.43 U	2.9	8.7	3.2	0.092 U	480 E	2.2	210	2	7.3	2.6	1.3 U
	03/31/10	ORIG	0.25	0.28	0.18 U	0.18 U	0.74	0.13 U	0.38	0.15 U	0.16 U	1.1 U	0.2 U	1.2	1.4	2	0.042 U	15	0.55	43	0.35	0.94	0.23	0.59 U
Small Production Room																								
	09/08/06	ORIG	1.1 U	0.88 U	0.89 U	0.89 U	3.6	0.66 U	1 U	0.76 U	0.8 U	5.7 U	0.99 U	3.2	14	2.9	0.21 U	1200 E	1.3	570	0.95	2.9	1	3 U
	03/31/10	ORIG	0.24 J	0.2 U	0.2 U	0.2 U	0.79	0.15 U	0.38	0.17 U	0.18 U	1.3 U	0.22 U	1.3	1.5	2.1	0.047 U	13	0.58	52	0.22	0.4	0.16 U	0.66 U
Madsen Roofing																								
Office																								
	07/23/08	ORIG	2.5	0.96	0.19	0.18 U	0.21	0.2	0.44	0.15 U	0.27	1.1 U	0.2 U	1.2	1	2.1	0.042 U	37	1.5	6.3	4.4	12	1.9	0.59 U
	07/23/08	DUP	1.6 J	0.19 J	0.15 UJ	0.15 UJ	0.053 UJ	0.11 UJ	0.43 J	0.12 UJ	0.16 J	0.93 UJ	0.16 UJ	1.3 J	0.81 J	2.2 J	0.034 UJ	18 J	0.77 J	4 J	7.3 J	21 J	2.9 J	0.48 UJ
	03/03/09	ORIG	2.3	0.37	0.18 U	0.18 U	0.26	0.13 U	0.53	0.15 U	0.17	1.1 U	0.2 U	2.5	0.96	2.5	0.042 U	23	1.7	9.5	1.3	4.7	1.7	0.59 U
	03/31/10	ORIG	5	0.53	0.2 U	0.2 U	0.78	0.16	0.42	0.17 U	0.36	1.3 U	0.22 U	1.3	1.7	2.1	0.048 U	32	2.6	8.3	0.95	3	1.1	0.67 U
	09/29/10	ORIG	0.51	0.19 U	0.2 U	0.2 U	0.16	0.14 U	0.44	0.16 U	0.18	1.6	0.22 U	2	0.84	2.9	0.046 U	30	5.4	10	1.4	4.2	1.4	0.64 U
	03/30/11	ORIG	0.47	0.15 U	0.16 U	0.16 U	0.46 J	0.18	0.44	0.13 U	0.18	2.5	0.17 U	1.9	0.8	2.5	0.037 U	40	7.6	14	1.8	6.3	2.7 J	0.52 U
	09/27/11	ORIG	0.65	0.19 U	0.2 U	0.2 U	0.071 U	0.16	0.44	0.16 U	0.3	2.5	0.22 U	1.5	0.56	2.3	0.046 U	50	3.3	7.8	1.2	3.9	1.5	0.64 U
Warehouse																								
	07/23/08	ORIG	1.6	0.28	0.19 U	0.19 U	0.069 U	0.14 U	0.44	0.16 U	0.17 U	1.2 U	0.21 U	1.3	0.81	2.4	0.045 U	18	0.94	4.2	13	37	4.9	0.63 U
	07/23/08	EPA	6.1 U	4.83 U	4.91 U	4.91 U	3.57 U	3.64 U	5.66 U	4.14 U	4.39 U	23.95	5.41 U	5.06 U	6.9 U	4.45 U	2.3 U	--	2.87 U	3.39 U	3.91 U	7.38 U	3.91 U	--
Medlin & Son																								
Front office area																								
	05/11/04	ORIG	4.3	2.7	0.46 U	0.46 U	5.1	0.34 U	0.67	0.39 U	0.42 U	3.9	0.95	8.7	40	2.6 J	0.11 U	3400 E	1	5.3	0.79	2.2	0.87	1.5 U
	09/14/05	ORIG	22	14	0.18 U	0.18 U	10	0.13 U	0.84	0.15 U	0.27	1.7	0.2	12	34	1.8	0.041 U	530 E	1	7.4	0.72	2.5	0.9	0.58 U
	03/03/09	ORIG	17	6.6	0.36 U	0.36 U	4.4	0.27 U	0.52	0.31 U	0.33 U	34	0.49	4.8	9.8	2.5	0.086 U	3800 E	1.7	8.8	3.8	7.5	2.2	1.2 U

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Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	03/03/09	EPA	13.6 U	10.7 U	10.9 U	10.9 U	7.9 U	8.1 U	12.6 U	9.2 U	9.8 U	6.9 U	12 U	11.2 U	15.3 U	9.9 U	5.1 U	--	6.4 U	10.2	8.7 U	17.8 U	8.7 U	--
	03/31/10	ORIG	23	10	0.18 U	0.18 U	4.3	0.17	0.37	0.15 U	0.16 U	2.3	0.19 U	3	8.9	2.2	0.041 U	170 E	0.54	2.3	3.8	15	3.7	0.58 U
	09/29/10	ORIG	0.88	0.34	0.18 U	0.18 U	0.57	0.13 U	0.42	0.15 U	0.21	1.8	0.2 U	2.1	1.5	2.7	0.042 U	390 E	1.7	5.2	1.7	4	1.5	0.59 U
	03/30/11	SPLIT	2.3 J	0.74 J	0.11 U	0.11 U	0.4 J	0.098	0.56	0.092 U	0.32 J	5.2	0.22	1.6	0.92	2.7	0.026 U	52	1.8 J	6.5 J	1.8 J	5.3 J	2.2 J	0.36 U
	03/30/11	ORIG	1.6 J	0.59 J	0.18 U	0.18 U	0.93 J	0.13 U	0.5	0.15 U	0.23 J	4.9	0.24	1.7	1	2.6	0.041 U	60	1.3 J	5.2 J	0.95 J	3.2 J	1.3 J	0.58 U
	09/27/11	SPLIT	0.62	0.18	0.11 U	0.41	0.054	0.095 J	0.56	0.092 U	0.37	51 J	0.2	1.2 J	0.72	3.2	0.026 U	57	2.1	9.5 J	1.8 J	7.1 J	3.1 J	0.36 U
	09/27/11	ORIG	0.64	0.2 U	0.2 U	0.2 U	0.074 U	0.16 J	0.5	0.17 U	0.32	34 J	0.22 U	1.5 J	0.61	2.7	0.048 U	68	1.9	6.8 J	1.3 J	4.6 J	1.7 J	0.67 U
Production area																								
	05/11/04	ORIG	6.2	2.6	0.21	0.19 U	6.6	0.14 U	0.8	0.16 U	0.2	5.1	0.21 U	8.9	36	3.3	0.044 U	39	1.1	7.3	0.85	2.7	1	0.63 U
	09/14/05	ORIG	4.6	2.3	0.2 U	0.2 U	2.9	0.15 U	1.3	0.17 U	0.32	1.3 U	0.22 U	5.4	17	1.2	0.047 U	22	0.91	4.8	0.79	2.7	0.98	0.66 U
	03/03/09	ORIG	2.3	0.9	0.19 U	0.19 U	0.89	0.14 U	0.5	0.16 U	0.17 U	36	0.21 U	2.6	2.8	2.3	0.045 U	41	1.1	6.2	2	4.2	1.3	0.63 U
	03/31/10	ORIG	10	4.8	0.6 U	0.6 U	3.5	0.44 U	0.69 U	0.5 U	0.53 U	5.1	0.66 U	3.1	9.4	2.3	0.14 U	280 E	0.87 U	1.6	7.1	26	5.8	2 U
	09/29/10	ORIG	0.8	0.24	0.19 U	0.19 U	0.88	0.14 U	0.43	0.16 U	0.21	1.7	0.21 U	2.3	2.3	2.9	0.045 U	180 E	1.6	4.7	2.5	5.8	2.5	0.63 U
	03/30/11	ORIG	0.62	0.19	0.16 U	0.16 U	0.18 J	0.14	0.48	0.14 U	0.18	5.8	0.18 U	1.6	1	2.8	0.039 U	22	1.5	6	1.3	4.5	1.6 J	0.55 U
	09/27/11	ORIG	0.51	0.19 U	0.2 U	0.2 U	0.071 U	0.14 J	0.45	0.16 U	0.26	59	0.22 U	1.4	0.55	2.4	0.046 U	44	1.7	5.7	1.1	3.6	1.3	0.64 U
Medlin North																								
Building Interior																								
	09/08/06	ORIG	1.6 U	1.3 U	1.3 U	1.3 U	0.47 U	0.96 U	1.5 U	1.1 U	1.2 U	8.3 U	1.4 U	1.6	1.9	2.6	0.3 U	430	1.9 U	2.8	1 U	2.1 U	1 U	4.3 U
	10/07/10	ORIG	0.28	0.18 U	0.19 U	0.19 U	0.22	0.14 U	0.37	0.16 U	0.17 U	1.2 U	0.2 U	1.8	0.96	2.5	0.044 U	21	0.81	2.3	0.32	0.84	0.29	0.62 U
	03/30/11	ORIG	0.38	0.19 U	0.19 U	0.19 U	0.069 U	0.14 U	0.48	0.16 U	0.17	1.4	0.21 U	1.6	0.82	2.7	0.045 U	21	1.4	4.4	0.53	1.5	0.54	0.63 U
	09/27/11	ORIG	0.6	0.2 U	0.2 U	0.2 U	0.074 U	0.15	0.46	0.17 U	0.26	8.5	0.22 U	1.4	0.61	2.4	0.048 U	35	1.7	5.1	0.81	2.3	0.9	0.67 U
Regional Occupational Program																								
Classroom (Room 104)																								
	03/31/10	ORIG	2	0.32	0.2 U	0.2 U	0.63	0.16	0.38	0.16 U	0.17 U	1.2 U	0.22 U	1.1	0.84	2.1	0.046 U	69	0.48	0.99	0.16	0.33	0.16 U	0.64 U
	05/27/10	ORIG	0.25	0.37	0.16 U	0.16 U	0.058 UJ	0.12 U	0.8	0.13 U	0.14 U	4.9	0.18 U	1.8	0.81 J	2.8	0.037 U	18	0.69	4.4	0.61	1.6	0.46	0.53 U
	07/01/10	ORIG	0.22 J	0.49	0.18 U	0.18 U	0.067 U	0.14 U	0.39	0.15 U	0.18	4	0.2 U	1.8	0.61	2.6	0.043 U	52	0.94	2.8	0.26	1.8	0.29	0.6 U
	07/28/10	ORIG	0.26	0.19	0.18 U	0.18 U	0.064 U	0.13 U	0.37	0.15 U	0.16 U	1.1 U	0.19 U	1.2	0.5	2	0.041 U	26	0.54	1.8	0.33	0.75	0.3	0.58 U
	08/27/10	ORIG	0.79	0.18 U	0.18 U	0.18 U	0.24	0.13 U	0.43	0.15 U	0.16 U	1.1 U	0.2 U	1.6	0.61	2.2	0.042 U	23	1.2	2.6	0.32	0.74	0.32	0.59 U
	10/07/10	ORIG	0.86	0.18 U	0.18 U	0.18 U	0.77	0.13 U	0.44	0.15 U	0.16 U	1.1 U	0.2 U	1.8	1.1	2.6	0.042 U	18	0.75	2.2	0.27	0.71	0.35	0.59 U
	10/27/10	ORIG	0.45	0.17 U	0.18 U	0.18 U	0.12	0.13 U	0.45	0.15 U	0.16 U	1.1 U	0.19 U	1.3	0.81	2.6	0.041 U	12	0.7	1.8	0.25	0.72	0.3	0.58 U
	11/30/10	ORIG	0.98	0.18 U	0.18 U	0.18 U	0.2	0.13 U	0.46 J	0.15 U	0.16 U	1.1 U	0.2 U	1.1	0.6	2.5	0.042 U	15	1.3	3.9	0.61	1.7	0.55	0.59 U
	12/28/10	ORIG	8.8	0.39	0.15 U	0.15 U	1.7	0.17	0.5 J	0.12 U	0.2	0.93 U	0.16 U	1.8	1.7	2.7	0.034 U	12	4.6	12	1.6	5.4	1.5	0.48 U
	01/26/11	ORIG	2	0.2	0.18 U	0.18 U	0.3	0.21	0.48 J	0.15 U	0.2	1.9	0.19 U	1.4	0.96	2.6	0.041 U	710 E	2.9	8.1	1.2	3.7	1.1	0.58 U
	02/28/11	ORIG	0.85	0.18 U	0.18 U	0.18 U	0.22 J	0.13 U	0.41	0.15 U	0.16 U	1.1 U	0.2 U	1.6	0.67	2.4	0.042 U	9.3	1.2	2.7	0.43	1.4	0.47	0.59 U
	03/30/11	ORIG	0.88	0.18 U	0.18 U	0.18 U	0.18 J	0.15	0.47	0.15 U	0.18	1.4	0.2 U	1.5	0.62	2.5	0.043 U	52	1.2	3.9	0.53	1.5	0.49	0.6 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	04/29/11	ORIG	1.1	0.17 U	0.18 U	0.18 U	0.22	0.17	0.47 J	0.15 U	0.17	6.3	0.19 J	2 J	0.9	2.9	0.041 U	29	0.58	4	0.45	1.1	0.29	0.58 U
	05/31/11	ORIG	0.91	0.19 U	0.19 U	0.19 U	0.15	0.14 UJ	0.52 J	0.16 U	0.22	1.2 U	0.21 U	1.1	0.7	2.5	0.045 U	17	1.2	4.1	0.55	1.7	0.59 J	0.63 U
	06/29/11	ORIG	0.67	0.18 U	0.18 U	0.18 U	0.096	0.13 U	0.52	0.15 U	0.16 U	1.2 U	0.2 UJ	1.2	0.61	2.5	0.042 U	18	0.61	1.9	0.32	0.93	0.34	0.6 U
	07/27/11	ORIG	0.56	0.18 U	0.18 U	0.18 U	0.091	0.14 U	0.5 J	0.15 U	0.16 U	1.2 U	0.2 UJ	1.2	0.56	2.2	0.043 U	14	0.33	1.2	0.19	0.55	0.2	0.6 U
	08/31/11	ORIG	0.59	0.17 U	0.17 U	0.17 U	0.066	0.13 U	0.53	0.14 U	0.15 U	1.1 U	0.19 UJ	2	0.54	2.8	0.04 U	13	0.51	1.7	0.23	0.65	0.25	0.56 U
	09/27/11	ORIG	0.98	0.21	0.17 U	0.17 U	0.13	0.15	0.57	0.5	0.37	4.3	0.23	1.5	0.63	2.7	0.04 U	52	1.8	82	1.4	3.7	1.6	0.56 U
	10/28/11	ORIG	1.3	0.18 U	0.18 U	0.18 U	0.17	0.14 UJ	0.48	0.15 U	0.28	1.7	0.2 UJ	1.3	0.64	2.4	0.043 U	30	2.4	7.6	1.2	4.5	1.6	0.6 U
	11/30/11	ORIG	1	0.3	0.19 U	0.19 U	0.068 U	0.18	0.47	0.16 U	0.32	1.8	0.2 UJ	1.3	0.59	2.4	0.044 U	49	2.2	7.7	1.2	3.8	1.4	0.62 U
	12/21/11	ORIG	0.98	0.18 U	0.18 U	0.18 U	0.11	0.22	0.75	0.16 U	0.18	1.2 U	0.2 U	1.4	0.69	2.7	0.043 U	20	2.6	7.6	1.2	4.2	1.4	0.61 U
Dental Annex (Classroom)																								
	05/27/10	ORIG	17	1.6	0.2 U	0.2 U	12	0.15 U	0.53	0.17 U	0.84	1.3 U	0.22 U	3.5	7.1	2.9	0.047 U	32	0.56	2	0.46	1.1	0.34	0.66 U
	07/01/10	ORIG	0.39	0.24	0.17 U	0.17 U	0.063 U	0.13 U	0.37	0.14 U	0.33	1.1	0.19 U	1.5	0.54	2.5	0.04 U	37	0.92	2.7	0.25	0.58	0.21	0.57 U
	08/27/10	ORIG	1	0.18 U	0.18 U	0.18 U	0.16	0.14 U	0.37	0.15 U	0.25	1.2 U	0.2 U	1.5 J	0.59	2.2	0.043 U	18	0.89	2.7	0.34	0.85	0.28	0.6 U
	10/07/10	ORIG	1	0.18 U	0.18 U	0.18 U	0.42	0.14 U	0.42	0.15 U	0.32	1.2 U	0.2 U	1.8	0.8	2.5	0.043 U	190 E	0.79	2.6	0.32	0.82	0.28	0.6 U
	10/27/10	ORIG	1.1	0.17 U	0.18 U	0.18 U	0.27	0.13 U	0.44	0.15 U	0.35	1.1 U	0.19 U	1.8	1.1	2.5	0.041 U	52	0.97	2.6	0.39	1.1	0.49	0.58 U
	11/30/10	ORIG	0.85	0.19	0.16 U	0.16 U	0.13	0.16	0.47 J	0.14 U	0.27	4.6	0.18 U	1.4	0.6	2.5	0.039 U	51	1.6	9.7	1.4	3.6	1.1	0.55 U
	12/28/10	ORIG	2.6	0.2	0.15 U	0.15 U	0.44	0.22	0.52 J	0.12 U	0.45	0.94 U	0.16 U	1.6	0.85	2.6	0.035 U	16	3.2	8.1	1	3.3	1.1	0.49 U
	01/26/11	ORIG	2.4	0.19	0.18 U	0.18 U	0.34	0.19	0.5 J	0.15 U	0.34	1.9	0.19 U	1.7	1.1	2.6	0.041 U	24	3	8.7	1.2	3.7	1.1	0.58 U
	02/28/11	ORIG	0.8	0.18 U	0.18 U	0.18 U	0.15 J	0.14	0.42	0.15 U	0.21	1.2 U	0.2 U	1.5	0.62	2.3	0.043 U	21	1.4	3.3	0.53	1.6	0.57	0.6 U
	03/30/11	ORIG	0.95	0.19 U	0.2 U	0.2 U	0.12 J	0.15	0.42	0.16 U	0.4	1.8	0.22 U	1.5	0.54	2.4	0.046 U	29	1.9	5.2	0.7	1.8	0.65 J	0.64 U
	04/29/11	ORIG	1.6	0.18 U	0.18 U	0.18 U	0.21	0.18	0.46 J	0.15 U	0.33	1.1 U	0.2 J	2 J	0.85	2.9	0.042 U	100 E	0.5	1.4	0.21	0.51	0.2	0.59 U
	05/31/11	ORIG	0.5	0.18 U	0.18 U	0.18 U	0.14	0.2 J	0.49 J	0.15 U	0.37	1.8	0.2 U	1.1	0.66	2.6	0.043 U	23	1	2.8	0.17	0.5	0.16 J	0.6 U
	06/29/11	ORIG	0.88	0.18 U	0.18 U	0.18 U	0.096	0.13 U	0.52	0.15 U	0.46	1.1 U	0.2 UJ	1.2	0.59	2.4	0.042 U	54	0.6	2.3	0.38	1.1	0.42	0.59 U
	07/27/11	ORIG	1.4	0.17 U	0.17 U	0.17 U	0.18	0.12 U	0.52 J	0.14 U	0.49	1.1 U	0.19 UJ	1.3	0.6	2.5	0.04 U	12	0.31	1	0.19	0.59	0.21	0.56 U
	08/31/11	ORIG	1.6	0.18 U	0.18 U	0.18 U	0.2	0.13 U	0.57	0.15 U	0.55	1.2 U	0.2 UJ	2.1	0.62	2.9	0.042 U	19	0.46	1.5	0.22	0.63	0.21	0.6 U
	09/27/11	ORIG	1.9	0.26	0.17 U	0.17 U	0.33	0.19	0.44	0.43	0.61	3.5	0.19 U	1.4	0.71	2.4	0.04 U	120 E	1.7	75	1.4	4	1.6	0.56 U
	10/28/11	ORIG	1.8	0.2	0.18 U	0.18 U	0.26	0.16	0.34	0.15 U	0.53	1.5	0.2 U	1.4	0.78	2.7	0.043 U	37	2.8	8.9	1.4	5.2	1.8	0.6 U
	11/30/11	ORIG	1.8	0.3	0.2 U	0.2 U	0.17	0.24	0.46	0.16 U	0.54	2.2	0.22 UJ	1.4	0.68	2.4	0.046 U	210 E	2.8	10	1.6	5.3	1.9	0.64 U
	12/21/11	ORIG	1.3	0.19 U	0.19 U	0.19 U	0.15	0.23	0.92	0.16 U	0.36	1.2 U	0.21 U	1.4	0.74	2.8	0.045 U	24	3	8.7	1.4	4.6	1.6	0.63 U
Dental Annex (Lobby/Computer Area)																								
	05/27/10	ORIG	20	1.9	0.19 U	0.19 U	13	0.14 U	0.54	0.16 U	0.82	1.2 U	0.21 U	3.3	6.4	2.8	0.045 U	42	0.54	2	0.52	1.3	0.44	0.63 U
	07/01/10	ORIG	0.34	0.28	0.17 U	0.17 U	0.063 U	0.13 U	0.39	0.14 U	0.23	1.1 J	0.19 U	1.7	0.56	2.6	0.04 U	41	0.91	2.6	0.26	0.6	0.19	0.57 U
	07/28/10	ORIG	0.34	0.31	0.18 U	0.18 U	0.067 U	0.14 U	0.49	0.15 U	0.16 U	1.2 U	0.2 U	1.3	0.52	2.1	0.043 U	17	0.61	1.8	0.5	1.2	0.36	0.6 U
	08/27/10	ORIG	0.8	0.18 U	0.18 U	0.18 U	0.13	0.14 U	0.39	0.15 U	0.23	1.2 U	0.2 U	1.1 J	0.58	2.1	0.043 U	18	0.91	2.7	0.35	0.83	0.31	0.6 U
	10/07/10	ORIG	0.89	0.18 U	0.18 U	0.18 U	0.28	0.14 U	0.44	0.15 U	0.2	1.2 U	0.2 U	1.8	0.72	2.7	0.043 U	200 E	0.8	2.4	0.29	0.75	0.25	0.6 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	10/27/10	ORIG	0.99	0.17 U	0.18 U	0.18 U	0.24	0.13 U	0.44	0.15 U	0.21	1.1 U	0.19 U	1.8	1	2.6	0.041 U	32	0.88	2.2	0.32	0.91	0.29	0.58 U
	11/30/10	ORIG	1.1	0.17 U	0.17 U	0.17 U	0.17	0.21	0.42 J	0.14 U	0.41	1.7	0.19 U	1.5	0.65	2.7	0.04 U	150 E	1.9	7.9	1.2	3.4	1.2	0.56 U
	12/28/10	ORIG	2.6	0.2	0.15 U	0.15 U	0.47	0.17	0.5 J	0.12 U	0.39	0.93 U	0.16 U	1.6	0.9	2.6	0.034 U	17	3.2	8	1	3.1	0.99	0.48 U
	01/26/11	ORIG	2	0.18 U	0.18 U	0.18 U	0.27	0.2	0.47 J	0.15 U	0.23	1.7	0.2 U	1.3	0.93	2.6	0.043 U	25	2.8	8.6	1.1	3.6	1	0.6 U
	02/28/11	ORIG	0.66	0.19 U	0.2 U	0.2 U	0.12 J	0.15	0.36	0.16 U	0.18	2.4	0.22 U	1.6	0.6	2.4	0.046 U	42	1.3	5.8	1.2	4	1.2	0.64 U
	03/30/11	ORIG	0.97	0.18 U	0.19 U	0.19 U	0.23 J	0.14 U	0.45	0.16 U	0.31	1.5	0.23	1.6	0.61	2.4	0.044 U	29	1.9	5.3	0.68	1.8	0.62 J	0.62 U
	04/29/11	ORIG	1.5	0.18 U	0.19 U	0.19 U	0.17	0.15	0.47 J	0.16 U	0.43	1.2 U	0.2 J	2.2 J	0.83	3	0.044 U	200 E	0.54	1.4	0.32	0.83	0.25	0.62 U
	05/31/11	ORIG	1.1	0.19 U	0.2 U	0.2 U	0.14	0.14 UJ	0.56 J	0.16 U	0.32	1.2 U	0.22 U	1.3	0.7	2.7	0.046 U	17	1.2	4.2	1	3.1	0.96 J	0.64 U
	06/29/11	ORIG	0.89	0.17 U	0.17 U	0.17 U	0.1	0.13 U	0.57	0.15 U	0.2	1.1 U	0.19 UJ	1.2	0.57	2.4	0.041 U	53	0.62	1.9	0.37	1.2	0.54	0.58 U
	07/27/11	ORIG	0.83	0.18 U	0.18 U	0.18 U	0.098	0.13 U	0.5 J	0.15 U	0.18	1.1 U	0.2 UJ	1.2	0.54	2.4	0.042 U	11	0.35	1.1	0.2	0.63	0.23	0.59 U
	08/31/11	ORIG	0.98	0.19 U	0.19 U	0.19 U	0.12	0.14 U	0.53	0.16 U	0.23	1.2 U	0.21 UJ	2.2	0.61	2.9	0.045 U	17	0.5	1.5	0.21	0.56	0.2	0.63 U
	09/27/11	ORIG	1.5	0.19 U	0.19 U	0.19 U	0.22	0.16	0.47	0.16 U	0.41	2.8	0.21 U	1.5	0.64	2.6	0.045 U	83	1.9	6.1	1.1	3.9	1.8	0.63 U
	10/28/11	ORIG	1.1	0.18 U	0.18 U	0.18 U	0.18	0.15 J	0.35	0.15 U	0.32	1.4	0.2 UJ	1.4	0.66	2.5	0.043 U	25	2.4	4.9	0.39	0.86	0.29	0.6 U
	11/30/11	ORIG	1.2	0.26	0.19 U	0.19 U	0.1	0.21	0.46	0.16 U	0.4	1.8	0.21 UJ	1.4	0.59	2.4	0.045 U	120 E	2.3	8	1.2	4	1.5	0.63 U
	12/21/11	ORIG	1	0.19 U	0.19 U	0.19 U	0.1	0.19	0.69	0.16 U	0.22	1.2 U	0.21 U	1.3	0.62	2.6	0.045 U	18	2.6	7.7	1.2	4	1.4	0.63 U
Office (Room 108)																								
	05/27/10	ORIG	5.8	0.72	0.19 U	0.19 U	2.7	0.14 U	0.57	0.16 U	0.17 U	2.5	0.21 U	2	1.4	2.8	0.045 U	200 E	0.58	2.3	0.32	0.68	0.24	0.63 U
	07/01/10	ORIG	0.64	0.18	0.18 U	0.18 U	0.27	0.14 U	0.39	0.15 U	0.19	2.1	0.21	1.7	0.62	2.7	0.043 U	56	0.86	3	0.26	0.55	0.26	0.6 U
	07/28/10	ORIG	0.53	0.27	0.19 U	0.19 U	0.069 U	0.15	0.4	0.16 U	0.17 U	2.4	0.21 U	1.2	0.56	2.2	0.045 U	23	0.64	13	0.79	1.8	0.54	0.63 U
	08/27/10	ORIG	1	0.14 U	0.15 U	0.15 U	0.29	0.11 U	0.41	0.12 U	0.19	1.8	0.16 U	1.5	0.62	2.2	0.034 U	17	1.1	3.4	0.41	1	0.44	0.48 U
	10/07/10	ORIG	1.1	0.18 U	0.19 U	0.19 U	0.74	0.14 U	0.44	0.16 U	0.17 U	1.4	0.2 U	1.8	1.1	2.6	0.044 U	71	0.94	3.2	0.4	1	0.46	0.62 U
	10/27/10	ORIG	1.3	0.18 U	0.18 U	0.18 U	0.35	0.13 U	0.41	0.15 U	0.21	2.9	0.2 U	1.9	1.5	2.6	0.042 U	33	1.6	5	0.65	1.9	0.63	0.59 U
	11/30/10	ORIG	1.6	0.17 U	0.18 U	0.18 U	0.32	0.18	0.46 J	0.15 U	0.16 U	2.8	0.19 U	1.4	0.66	2.5	0.041 U	28	1.9	5.8	0.77	2.4	0.78	0.58 U
	12/28/10	ORIG	3.7	0.24	0.16 U	0.16 U	0.72	0.21	0.56 J	0.14 U	0.58	4	0.33	1.7	1	2.7	0.039 U	21	2.7	8.3	0.96	2.9	1	0.55 U
	01/26/11	ORIG	3.3	0.24	0.2 U	0.2 U	0.61	0.19	0.49 J	0.16 U	0.22	5.6	0.22 U	1.5	1.3	2.7	0.046 U	120 E	2.9	8.9	1.2	3.5	1	0.64 U
	02/28/11	ORIG	2	0.19	0.18 U	0.18 U	0.5 J	0.13 U	0.4	0.15 U	0.18	8.1	0.32	1.5	0.85	2.3	0.041 U	24	1.8	5.1	0.75	2.4	0.82	0.58 U
	03/30/11	ORIG	1.7	0.42 U	0.42 U	0.42 U	0.49 J	0.31 U	0.5	0.36 U	0.38 U	4.6	0.47 U	1.6	1.3	2.5	0.099 U	73	1.2	4.8	0.97	2.6	0.68	1.4 U
	04/29/11	ORIG	1.1	0.17 U	0.17 U	0.17 U	0.21	0.12 U	0.46 J	0.14 U	0.15 U	1.1 U	0.19 J	2 J	0.83	2.9	0.04 U	16	0.51	1.1	0.15	0.37	0.13 U	0.56 U
	05/31/11	ORIG	2.2	0.19 U	0.2 U	0.2 U	0.49	0.14 UJ	0.49 J	0.16 U	0.24	7.3	0.3	1.3	1	2.6	0.046 U	28	1.2	4.6	0.8	2.4	0.73 J	0.64 U
	06/29/11	ORIG	1	0.18 U	0.18 U	0.18 U	0.16	0.13 U	0.53	0.15 U	0.16 U	3.4	0.2 UJ	1.2	0.64	2.4	0.042 U	28	0.58	2.2	0.49	1.4	0.52	0.6 U
	07/27/11	ORIG	0.46	0.17 U	0.17 U	0.17 U	0.074	0.13 U	0.51 J	0.14 U	0.15 U	2.2	0.19 UJ	1.3	0.6	2.5	0.04 U	18	0.34	2.3	0.35	0.86	0.3	0.57 U
	08/31/11	ORIG	0.66	0.19 U	0.19 U	0.19 U	0.08	0.14 U	0.58	0.16 U	0.17 U	2.1	0.21 UJ	1.9	0.62	2.8	0.045 U	42	0.46	1.8	0.32	0.83	0.27	0.63 U
	09/27/11	ORIG	1.7	0.19 U	0.19 U	0.19 U	0.29	0.16	0.52	0.16 U	0.32	2.5	0.21 U	1.4	0.65	2.4	0.045 U	37	1.8	6.2	1	3.8	1.6	0.63 U
	10/28/11	ORIG	2.1	0.22	0.17 U	0.17 U	0.32	0.16 J	0.44	0.14 U	0.29	2	0.19 UJ	1.4	0.81	2.4	0.04 U	37	2.8	9.3	1.5	5.5	1.9	0.57 U
	11/30/11	ORIG	1.8	0.3	0.19 U	0.19 U	0.12	0.2	0.46	0.16 U	0.36	3.2	0.2 UJ	1.4	0.68	2.4	0.044 U	58	2.7	10	1.7	5.2	1.9	0.62 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	12/21/11	ORIG	1.3	0.18 U	0.19 U	0.19 U	0.16	0.24	0.76	0.16 U	0.21	2.6	0.21 U	1.4	0.76	2.9	0.044 U	77	2.7	8.7	1.3	4.4	1.5	0.62 U
Office (Room 207)																								
	03/31/10	ORIG	58	3.5	0.16 U	0.16 U	29	0.2	0.43	0.13 U	0.27	47	0.17 U	6	11	2.3	0.037 U	78 E	0.72	6.7	0.99	2.7	0.84	0.52 U
	05/27/10	ORIG	25 J	1.3	0.15 U	0.15 U	13 J	0.12	0.52	0.12 U	0.13 U	4.1 J	0.16 U	2.7	3.6 J	2.7	0.034 U	36 J	0.49	2	0.34	0.78	0.27	0.48 U
	05/27/10	DUP	20 J	1.4	0.19 U	0.19 U	9.5 J	0.14 U	0.51	0.16 U	0.17	5.8 J	0.2 U	2.5	2.9 J	2.7	0.044 U	180 E	0.55	2.4	0.39	0.87	0.28	0.62 U
	07/01/10	ORIG	2	0.26	0.19 U	0.19 U	0.57	0.14 U	0.4	0.16 U	0.22	8.6	0.21 J	1.9	0.75	2.8	0.045 U	41	0.95	3.7	0.36	0.85	0.27	0.63 U
	07/28/10	SPLIT	1.4	0.3	0.11 U	0.11 U	0.18	0.081 U	0.65	0.092 U	0.23	7.5	0.2	1.6	0.68	2.8	0.026 U	9.7	0.95	15	2.3	6.1	2.2	0.36 U
	07/28/10	ORIG	1.2	0.18	0.18 U	0.18 U	0.13	0.13	0.47	0.15 U	0.16 U	5.4	0.19 U	1.2	0.5	2.1	0.041 U	29	0.62	2.6	0.96	2.2	0.58	0.58 U
	08/27/10	SPLIT	1.5 J	0.13	0.1 J	0.05 U	0.19 J	0.13	0.45	0.14	0.22	29 J	0.49	0.06 U	0.08 U	0.05 U	0.01 U	1.2 UJ	1.4 J	14 J	0.04 U	4.3 J	1.4 J	0.07 U
	08/27/10	ORIG	0.94 J	0.18 U	0.18 U	0.18 U	0.24 J	0.14 U	0.4	0.15 U	0.18	2.9 J	0.2 U	1.7	0.66	2.3	0.043 U	21 J	0.93 J	3.4 J	0.4	0.97 J	0.3 J	0.6 U
	10/07/10	ORIG	1.2	0.18 U	0.18 U	0.18 U	0.38	0.13	0.44	0.15 U	0.2	3.6	0.2 U	1.9	0.77	2.6	0.042 U	49	1	3.7	0.47	1.2	0.42	0.59 U
	10/27/10	SPLIT	1.7	0.11	0.11 U	0.11 U	0.3 J	0.11	0.44	0.092 U	0.17	5.4 J	0.16	1.4 J	1.2 J	2.5	0.026 U	19 J	1.2 J	14 J	1.2 J	3.8 J	1.4 J	0.36 U
	10/27/10	ORIG	1.4	0.17 U	0.18 U	0.18 U	0.41 J	0.13 U	0.45	0.15 U	0.18	7.2 J	0.19 U	2 J	1.6 J	2.7	0.041 U	34 J	1.6 J	6.2 J	0.67 J	1.9 J	0.62 J	0.58 U
	11/30/10	SPLIT	1.8 J	0.2	0.11 U	0.11 U	0.33 J	0.12	0.51 J	0.092 U	0.18	7.4 J	0.17	1.5 J	0.75 J	2.8 J	0.026 U	20 J	1.9 J	9.7 J	0.94 J	3.4 J	1.1 J	0.36 U
	11/30/10	ORIG	0.91 J	0.16 U	0.16 U	0.16 U	0.17 J	0.12	0.25 J	0.14 U	0.14 U	3.5 J	0.18 U	0.75 J	0.38 J	1.3 J	0.038 U	13 J	1 J	4.1 J	0.44 J	1.4 J	0.44 J	0.54 U
	12/28/10	SPLIT	8.2 J	0.41 J	0.11 U	0.11 U	1.5 J	0.1 J	0.57	0.092 U	0.28	5.8 J	0.6 J	1.7	1.5 J	2.7	0.026 U	24	3.3	13 J	2.3 J	8.2 J	3 J	0.36 U
	12/28/10	ORIG	4.2 J	0.25 J	0.15 U	0.15 U	0.82 J	0.19 J	0.5 J	0.13 U	0.2	7.5 J	0.28 J	1.7	1.1 J	2.7	0.036 U	27	3.1	10 J	1.1 J	3.4 J	1 J	0.5 U
	01/26/11	SPLIT	4.3	0.3	0.11 U	0.11 U	0.69	0.11	0.58 J	0.092 U	0.26 J	8.2	0.35 J	1.6	1.4	2.5	0.026 U	99	2.7 J	10 J	2.1 J	7 J	2.5 J	0.36 U
	01/26/11	ORIG	4.6	0.27	0.15 U	0.15 U	0.75	0.16	0.43 J	0.12 U	0.39 J	8.3	0.17 J	1.9	1.5	2.9	0.035 U	92 E	3.4 J	19 J	1.5 J	4.7 J	1.3 J	0.49 U
	02/28/11	SPLIT	2.3	0.24 J	0.33 U	0.33 U	0.38 J	0.24 U	0.42	0.28 U	0.29 U	12	0.44	0.9 J	0.84	2 J	0.077 U	40 J	1.7	6	0.83	2.6	0.99 J	1.1 U
	02/28/11	ORIG	2	0.18 J	0.18 U	0.18 U	0.54 J	0.15	0.4	0.15 U	0.18	13	0.26	1.6 J	0.88	2.5 J	0.043 U	26 J	1.7	5.6	0.78	2.4	0.8 J	0.6 U
	03/30/11	SPLIT	3.1 J	0.23	0.11 U	0.11 U	0.5 J	0.13	0.57	0.092 U	0.3 J	8	0.34	1.6	1	2.8	0.026 U	53	1.6 J	6.5	1.9 J	5.4 J	1.6 J	0.36 U
	03/30/11	ORIG	2.3 J	0.18	0.18 U	0.18 U	0.45 J	0.14 U	0.48	0.15 U	0.21 J	7.1	0.2 U	1.5	0.87	2.5	0.043 U	46	1.2 J	5.4	1 J	3 J	0.76 J	0.6 U
	04/29/11	SPLIT	1 J	0.084	0.11 U	0.11 U	0.17	0.11	0.55	0.092 U	0.14	8.2	0.17 J	1 J	0.87	2.6	0.026 U	37 J	0.66 J	9.3 J	0.91 J	2.7 J	0.82 J	0.36 U
	04/29/11	ORIG	0.76 J	0.18 U	0.18 U	0.18 U	0.18	0.16	0.46 J	0.15 U	0.16 U	9.2	0.2 J	2 J	0.81	2.9	0.042 U	27 J	0.54 J	6.9 J	0.42 J	1 J	0.24 J	0.59 U
	05/31/11	SPLIT	2.9	0.2	0.11 U	0.11 U	0.44 J	0.12	0.6	0.092 U	0.35 J	14	0.52 J	1.2	1.1	2.6	0.026 U	22 J	1.5 J	5.9	1.4 J	4.4 J	1.5 J	0.36 U
	05/31/11	ORIG	2.5	0.18 U	0.19 U	0.19 U	0.59 J	0.14 UJ	0.51 J	0.16 U	0.25 J	12	0.36 J	1.3	1.1	2.5	0.044 U	27 J	1.2 J	5.1	0.84 J	2.6 J	0.78 J	0.62 U
	06/29/11	Split	2.5 J	0.16	0.11 U	0.11 U	0.3	0.12	0.66 J	0.092 U	0.14 J	8.1	0.22	1.4	0.85	0.099 U	0.026 U	37 J	0.64	5.8 J	2.2 J	5.4 J	2.5 J	0.36 U
	06/29/11	ORIG	1.9 J	0.17 U	0.18 U	0.18 U	0.3	0.13 U	0.52 J	0.15 U	0.32 J	7.9	0.19 UJ	1.3	0.78	2.4	0.041 U	29 J	0.6	2.7 J	0.56 J	1.6 J	0.52 J	0.58 U
	07/27/11	SPLIT	0.64	0.071	0.11 U	0.11 U	0.11	0.41	0.58	0.092 U	0.13	4	0.25	1.3	0.78	2.8	0.026 U	20	0.43	9 J	1.3 J	3 J	1.3 J	0.36 U
	07/27/11	ORIG	0.56	0.16 U	0.16 U	0.16 U	0.1	0.12 U	0.58 J	0.14 U	0.15 U	3.9	0.18 UJ	1.4	0.67	2.6	0.039 U	22	0.32	1.8 J	0.39 J	1 J	0.39 J	0.55 U
	08/31/11	Split	0.88	0.084	0.27 U	0.27 U	0.11	0.2 U	0.52	0.23 U	0.24 U	4.6	0.3 U	1.4 J	0.74	2.7	0.064 U	36 J	0.65	11 J	0.97 J	2.2 J	1.1 J	0.9 U
	08/31/11	ORIG	0.8	0.18 U	0.18 U	0.18 U	0.11	0.15	0.55	0.16 U	0.17 U	5.5	0.2 UJ	1.9 J	0.64	2.8	0.043 U	51 J	0.48	3.4 J	0.46 J	1.3 J	0.48 J	0.61 U
	09/27/11	SPLIT	1.9	0.22	0.11 U	0.11 U	0.39	0.1	0.56	0.22	0.5 J	4.9 J	0.33	1.3 J	0.89	3.2 J	0.026 U	42	2.2	12 J	2 J	10 J	5.2 J	0.36 U
	09/27/11	ORIG	1.8	0.18	0.18 U	0.18 U	0.37	0.15	0.47	0.15 U	0.34 J	3.8 J	0.2 U	1.6 J	0.74	2.4 J	0.043 U	41	1.9	8 J	1.4 J	5.9 J	2.8 J	0.6 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	10/28/11	SPLIT	2.5 J	0.27	0.11 U	0.11 U	0.35	0.14	0.71	0.092 U	0.4 J	3.9	0.31	1.6 J	1.1 J	2.6	0.026 U	36	2.3 J	11 J	2 J	6.8 J	2.5 J	0.36 U
	10/28/11	ORIG	0.23 UJ	0.18 U	0.18 U	0.18 U	0.32	0.14 UJ	0.21 U	0.15 U	0.23 J	3.3	0.2 UJ	1.3 J	0.78 J	2.4	0.043 U	36	0.59 J	0.53 UJ	0.14 UJ	0.29 UJ	0.14 UJ	0.6 U
	11/30/11	SPLIT	2.1	0.32	0.11 U	0.11 U	0.16	0.23	0.65 J	0.092 U	0.35	11	0.32	1.8	0.97 J	2.8	0.026 U	43 J	2.9	15 J	2.2 J	6.8 J	2.5 J	0.36 U
	11/30/11	ORIG	1.8	0.27	0.19 U	0.19 U	0.16	0.2	0.47 J	0.16 U	0.38	10	0.2 UJ	1.5	0.78 J	2.5	0.044 U	64 J	2.8	11 J	1.7 J	5.5 J	2 J	0.62 U
	12/21/11	SPLIT	1.3	0.15	0.11 U	0.11 U	0.16	0.094 J	0.62 J	0.092 U	0.28	8.5	0.12 U	1.6	0.89	2.9	0.026 U	90	2.7	10	1.8 J	5.9	2.3 J	0.36 U
	12/21/11	ORIG	1.3	0.18 U	0.18 U	0.18 U	0.16	0.23 J	0.88 J	0.16 U	0.21	7.7	0.2 U	1.4	0.78	2.8	0.043 U	99 E	2.9	9.9	1.4 J	4.9	1.7 J	0.61 U
Star City Auto Body																								
Main work area																								
	05/11/04	ORIG	16	3.5	0.74 U	0.74 U	17	0.55 U	0.86 U	0.63 U	0.67 U	4.7 U	0.82 U	13	30	2.3	0.17 U	1100 E	2.6	420	8.6	46	13	2.5 U
	05/11/04	DUP	17	3.6	0.74 U	0.74 U	18	0.55 U	0.86 U	0.63 U	0.67 U	4.8	0.82 U	14	31	2.7	0.17 U	1200 E	3.2	440	9.2	49	14	2.5 U
	09/14/05	ORIG	34	6.5	0.33	0.2 U	16	0.15 U	0.67	0.17 U	0.19	1.5	0.22 U	11	18	1.9	0.047 U	350 E	5.3	38	4.6	21	5.1	0.66 U
	09/14/05	DUP	33	5.5	0.32	0.19 U	16	0.14 U	0.66	0.16 U	0.19	1.5	0.21 U	11	17	2.1	0.045 U	330 E	5	36	4.8	22	5.4	0.63 U
	03/03/09	ORIG	4.2	0.89	0.18 U	0.18 U	0.45	0.13 U	0.49	0.15 U	0.16	1.2	0.19 U	1.8	0.86	2.5	0.041 U	980 E	4.2	25	5.4	19	5.4	0.58 U
	03/31/10	ORIG	12	1.2	0.33	0.18 U	0.87	0.16	0.41	0.15 U	0.22	1.1 U	0.19 U	1.1	1.2	2	0.041 U	290 E	1.5	9.5	1.3	5.2	1.3	0.58 U
	10/07/10	ORIG	0.67	0.35 U	0.53	0.36 U	0.49	0.26 U	0.62	0.3 U	0.32 U	2.3 U	0.39 U	1.9	1.4	2.4	0.084 U	900 E	1.7	18	1.6	5.1	1.7	1.2 U
	03/30/11	ORIG	1.2 U	0.98 U	1 U	1 U	0.36 U	0.74 U	1.2 U	0.84 U	0.89 U	6.4 U	1.1 U	1.7	1.4 U	2.8	0.23 U	1000 E	3.4	33	2.1	6.8	2.3 J	3.3 U
	09/27/11	ORIG	0.56	0.2 U	0.42	0.21 U	0.076 U	0.18	0.46	0.31	0.29	6.2	0.23 U	1.4	0.51	2.5	0.049 U	1200 E	3.9	84	18	68	20	0.69 U
Rear area of shop																								
	05/11/04	ORIG	6	3.9 U	4 U	4 U	1.6	2.9 U	4.6 U	3.4 U	3.6 U	25 U	4.4 U	4.1 U	5.6 J	3.6 U	0.93 U	5400 E	5.8 U	2400	48	270	78	13 U
	09/14/05	ORIG	23 U	18 U	18 U	18 U	6.7 U	14 U	21 U	15 U	16 U	120 U	20 U	19 U	26 U	17 U	4.3 U	6000	27 U	74	14 U	29 U	14 U	60 U
	03/03/09	ORIG	2.9	0.36 U	0.37 U	0.37 U	0.22	0.27 U	0.51	0.59	0.33 U	2.9	0.4 U	1.7	1.1	2.4	0.086 U	5700 E	2.9	120	17	59	14	1.2
	03/31/10	ORIG	14	0.69	0.88	0.47 U	0.83	0.35 U	0.54 U	0.39 U	0.42 U	3 U	0.51 U	1.3	2.2	2	0.11 U	1100 E	1	140	7.8	35	9.1	1.5 U
	10/07/10	ORIG	0.81	0.18 U	0.29	0.18 U	0.45	0.13 U	0.43	0.15 U	0.18	1.1 J	0.2 U	1.8	1.2	2.4	0.042 U	2400 E	2.4	32	3.1	11	2.7	0.59 U
	03/30/11	ORIG	1 U	0.83 U	0.84 U	0.84 U	0.31 U	0.63 U	0.98 U	0.71 U	0.76 U	5.4 U	0.93 U	1.7	1.2 U	2.3	0.2 U	1100 E	3.2	39	2.5	8.3	2.8 J	2.8 U
	09/27/11	ORIG	2.6 U	2 U	2.1 U	2.1 U	0.76 U	1.5 U	2.4 U	1.8 U	1.9 U	25	2.3 U	2.1 U	2.9 U	1.9 U	0.49 U	9300 E	3.3	240	47	230	75	6.9 U
Side Office																								
	03/31/10	ORIG	7	0.85	0.35	0.18 U	0.39	0.14 U	0.39	0.15 U	0.16 U	1.2 U	0.2 U	1.1	0.96	2.1	0.043 U	270 E	1.4	9.7	0.98	3.4	1	0.6 U
	10/07/10	ORIG	0.48	0.18 U	0.24	0.19 U	0.27	0.14 U	0.43	0.16 U	0.17	1.2 U	0.2 U	1.9	1.1	2.6	0.044 U	350 E	1	9.9	0.81	2.3	0.77	0.62 U
	03/30/11	ORIG	0.33	0.19 U	0.19 U	0.19 U	0.069 U	0.16	0.5	0.16 U	0.18	1.5	0.21 U	1.6	0.65	2.5	0.045 U	470 E	2	19	1.1	3.6	1.4 J	0.63 U
	09/27/11	ORIG	0.56	0.2 U	0.2 U	0.2 U	0.074 U	0.18	0.5	0.17 U	0.29	4.5	0.22 U	1.4	0.55	2.5	0.048 U	550 E	2	25	5.7	27	8.7	0.67 U
Terra Pave																								
First floor office area																								
	05/11/04	ORIG	110	4.4	0.45	0.2 U	23	0.15 U	0.56	0.17 U	0.24	1.5	0.23	7	26	2.9	0.046 U	41	1.3	10	1.6	5.4	2.1	0.66 U
	09/14/05	ORIG	39	1.6	0.17 U	0.17 U	5.5	0.13 U	0.67	0.14 U	0.21	1.2	0.27	3.4	6.3	2	0.04 U	22	1.1	6.9	0.93	3.5	1	0.57 U
	07/23/08	ORIG	130	5.8	0.19 U	0.19 U	12	0.14 U	0.43	0.16 U	0.4	1.4	0.21 U	3	9	2.3	0.045 U	40	0.84	7.4	0.87	3	1.1	0.63 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	03/03/09	ORIG	420	18	0.66	0.47 U	56	2.9	0.58	0.39 U	3.3 J	3 U	0.51 U	13	53	2.4	0.11 U	140	1.8	68	1.6	5.3	2.3	1.5 U
	03/03/09	EPA	535.7	19.9	14.2 U	14.2 U	59.4	10.5 U	16.4 U	12 U	12.7 U	9 U	15.6 U	13.5 J	54.4	12.9 U	6.6 U	--	8.3 U	71.6	11.3 U	22.2 U	11.3 U	--
	03/03/09	DUP	420	16	0.46 U	0.46 U	55	0.34 U	0.54	0.39 U	0.73 J	2.9 U	0.5 U	13	50	2.4	0.11 U	140	1.8	68	1.5	5.3	2.2	1.5 U
	07/16/09	SPLIT	52	2.4	0.11 U	0.11 U	4	0.081 U	0.43	0.092 U	0.33	1.3	0.14	1.6	1.6	0.098 U	0.026 U	130	1.7	120	1.1	1.7	1.3	0.35 U
	07/16/09	ORIG	45	2.1	0.4 U	0.4 U	2.4	0.3 U	0.54	0.34 U	0.36 U	2.5 U	0.44 U	1.8	1.5	2.4	0.094 U	230 E	1.6	120	0.69	1.9	0.68	1.3 U
	07/16/09	DUP	47	2.1	0.21 U	0.21 U	2.6	0.15 U	0.57	0.18 U	0.3	1.3	0.23 U	1.7	1.5	2.4	0.049 U	220 E	1.7	110	0.67	1.9	0.72	0.69 U
	08/25/09	ORIG	23	1.2	0.25 U	0.25 U	1 J	0.19 U	0.52	0.21 U	0.4 J	1.6 U	0.28 U	1.6	1.3	2.6	0.059 U	54 J	1.8 J	17	0.73 J	1.9 J	0.62 J	0.83 U
	08/25/09	DUP	20	1.3	0.2 U	0.2 U	1.5 J	0.15 U	0.57	0.84 U	0.32 J	1.6	1.1 U	1.9	1.5	2.6	0.047 U	78 J	2.3 J	18	0.9 J	2.6 J	1 J	0.66 U
	09/30/09	SPLIT	20	0.91	0.065 J	0.098 U	0.79	0.069	0.63	0.046 J	0.21	56 J	0.09 J	1.4	0.92 J	--	0.046	--	1.5	19	7.4	37	15	--
	09/30/09	ORIG	17 J	0.96	0.2 U	0.2 U	0.74	0.15 U	0.61	0.17 U	0.19 J	2.5 J	0.22 U	1.6	1.4 J	2.9	0.047 U	24 J	1.5	17	3.3 J	13 J	4.6 J	0.66 U
	09/30/09	DUP	49 J	1	0.18 U	0.18 U	0.74	0.13 U	0.62	0.15 U	1 J	2.4 J	0.19 U	1.6	1.4 J	2.8	0.041 U	34 J	1.6	18	4.3 J	20 J	6.9 J	0.58 U
	10/29/09	ORIG	130	5.3	0.2 U	0.2 U	7.5 J	0.14 U	0.53	0.16 U	0.33	2.1	0.22 U	2.4	9.4	2.4	0.046 U	93 E	2.2	24	1.1	3.3	1.2	0.64 U
	10/29/09	DUP	160	6.2	0.25 U	0.25 U	8 J	0.18 U	0.57	0.21 U	0.39	2.4	0.27 U	2.6	10	2.5	0.058 U	96	2.7	26	1.3	3.8	1.4	0.81 U
	11/24/09	ORIG	270	11	0.3 U	0.3 U	24	0.22 U	0.48	0.25 U	0.65	2.8	0.33 U	5.8 J	16	2.5	0.07 U	81	3.4	19	4	14	4.8	0.98 U
	11/24/09	DUP	270	10	0.32 U	0.32 U	23	0.24 U	0.45	0.27 U	0.62	2.8	0.35 U	4.7 J	15	2.5	0.075 U	74	3.2	18	3.7	12	4.1	1 U
	12/28/09	ORIG	540	21	0.62 U	0.62 U	80	0.46 U	0.72 U	0.52 U	0.95	4.9	0.68 U	20	60	2.6	0.14 U	690 E	2.1	16	13	48	16	2 U
	12/28/09	DUP	530	21	0.89 U	0.89 U	78	0.66 U	1 U	0.76 U	0.91	5.7 U	0.99 U	20	58	2.3	0.21 U	670 E	2.1	16	12	45	15	3 U
	01/27/10	ORIG	580	21	0.64 U	0.64 U	67	0.47 U	0.73 U	0.54 U	1.2	4 U	0.7 U	16 J	48	2.4	0.15 U	65	2.6	16	4.5	16	5.8	2.1 U
	01/27/10	DUP	550	20	0.59 U	0.59 U	63	0.43 U	0.68 U	0.49 U	1	3.7 U	0.64 U	16	45	2.2	0.14 U	72	2.6	14	4.2	14	5.1	1.9 U
	02/24/10	SPLIT	790	37	0.16	1.7	100	0.097	0.58	0.092 U	1.8	4	0.25	18	76	2.2	0.026 U	63 J	3.1	22	8.1	34	15	0.35 U
	02/24/10	ORIG	1000	37	1 U	1 U	110	0.78 U	1.2 U	0.89 U	1.6	6.7 U	1.2 U	20	78	0.96 U	0.25 U	81 J	3.9	28	8.6	35	13	3.5 U
	02/24/10	DUP	1000	38	1.7 U	1.7 U	110	1.2 U	2 U	1.4 U	1.5 U	11 U	1.9 U	21	78	1.5 U	0.4 U	83	4	28	8.8	36	14	5.6 U
	03/31/10	SPLIT	30	1.6 J	0.11 U	0.11 U	4.4 J	0.081 U	0.64 J	0.092 U	0.13	0.69 U	0.22	2.4 J	4.2 J	2.6	0.026 U	14 J	0.7 J	1.8 J	0.36 J	1.3 J	0.5 J	0.35 U
	03/31/10	ORIG	30	1.2 J	0.18 U	0.18 U	2.9 J	0.14	0.42 J	0.15 U	0.16 U	1.1 U	0.19 U	1.6 J	3.4 J	2.2	0.041 U	9.6 J	0.53 J	1.2 J	0.22 J	0.53 J	0.18 J	0.58 U
	03/31/10	DUP	30	1.3	0.18 U	0.18 U	2.6	0.17	0.42	0.15 U	0.16 U	1.1 U	0.2 U	1.8	3.6	2.3	0.042 U	5.9 J	0.56	1.3	0.2	0.53	0.18	0.59 U
	04/28/10	SPLIT	20	1.5 J	0.11 U	0.11 U	2.4 J	0.098	0.22 J	0.11	0.13	0.47 J	0.12 U	1.4	2	2.4	0.026 U	15 J	0.53 J	12 J	3.9 J	15 J	5 J	0.35 U
	04/28/10	ORIG	22	1.2 J	0.2 U	0.2 U	1.9 J	0.15 U	0.42 J	0.17 U	0.18 U	3.5 J	0.22 U	1.5	2.2 J	2.4	0.047 U	7.2 J	0.36 J	2.5 J	0.16 UJ	0.32 UJ	0.16 UJ	0.66 U
	04/28/10	DUP	22	1.3	0.21 U	0.21 U	1.6 J	0.15 U	0.37	0.18 U	0.19 U	1.3 U	0.23 U	1.5	2.3 J	2.5	0.049 U	6.7	0.37	0.82 J	0.16 U	0.33 U	0.16 U	0.69 U
	05/27/10	ORIG	640	23	0.7 U	0.7 U	78	0.52 U	0.8 U	0.59 U	1.1	4.4 U	0.77 U	12	53	2.9	0.16 U	49	1.4	6.8	1.3	3.8	1.3	2.3 U
	06/24/10	ORIG	3.5	0.22	0.19 U	0.19 U	0.13	0.14 UJ	0.41	0.16 U	0.17 U	1.8 J	0.2 U	1.7	0.6	2.6	0.044 U	35 J	1.8	8.3	1.2	4.4	1.7	0.62 U
	06/24/10	DUP	3.5	0.22	0.18 U	0.18 U	0.36	0.14 UJ	0.39	0.15 U	0.16 U	2.5 J	0.2 U	1.7	0.63	2.5	0.043 U	34 J	1.8	8.4	1.2	4.5	1.8	0.6 U
	07/01/10	ORIG	3.3	0.22	0.18 U	0.18 U	0.12	0.13 U	0.41	0.15 U	0.22	2.3	0.19 U	1.9	0.63	2.7	0.041 U	73	1.4	7.4	0.67	2.1	0.78	0.58 U
	07/08/10	ORIG	2.2	0.19 U	0.19 U	0.19 U	0.069 U	0.14 UJ	0.5	0.16 U	0.17 U	2.5 J	0.21 U	1.6	0.66	2.5	0.045 U	530 E	2	7.4	0.63	1.9	0.69	0.63 U
	07/08/10	DUP	2.1	0.19 U	0.19 U	0.19 U	0.069 U	0.14 UJ	0.42	0.16 U	0.17 U	4 J	0.21 U	1.7	0.67	2.5	0.045 U	540 E	1.9	7.3	0.63	1.8	0.7	0.63 U
	07/28/10	ORIG	3.5	0.36	0.17 U	0.17 U	0.37	0.13	0.4	0.16	0.15 U	6.2	0.19 U	1.2	0.47	2	0.044	74	2 J	68 J	2.6 J	8.3	3.3	0.56 U

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Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	07/28/10	DUP	3.8	0.29	0.17 U	0.17 U	0.39	0.13 U	0.38	0.14 U	0.15 U	2.4	0.19 U	1.2	0.54	2	0.04 U	72	1.5 J	6.1 J	1.8 J	7	3	0.57 U
	08/27/10	ORIG	1.7	0.14 U	0.15 U	0.15 U	0.092	0.11 U	0.43	0.12 U	0.21	3.6	0.16 U	1.7 J	0.66	2.2	0.034 U	39	1.8	18	0.87	2.6	0.86	0.48 U
	08/27/10	DUP	1.5	0.18 U	0.19 U	0.19 U	0.068 U	0.14 U	0.41	0.16 U	0.16 J	2.5	0.2 U	1.7 J	0.57	2.2	0.044 U	31	1.3	12	0.65	1.8	0.58	0.62 U
	09/29/10	SPLIT	2.7 J	0.22	1.2 U	1.2 U	0.45 U	0.91 U	1.4 U	1 U	1.1 U	7.8 U	1.4 U	2	1.7 U	2.9	0.29 U	180	3.6	97 J	74	310	120	4.1 U
	09/29/10	ORIG	1.9 J	0.56 U	0.57 U	0.57 U	1.7 J	0.42 U	0.66 U	0.48 U	0.51 U	9.7	0.63 U	2.4 J	1.8	2.7	0.13 U	210	3.9	120 J	78	340	130	1.9 U
	09/29/10	DUP	1.9 J	0.56 U	0.57 U	0.57 U	0.34 J	0.42 U	0.66 U	0.48 U	0.51 U	9.4	0.63 U	1.6 J	1.1	2.7	0.13 U	190	3.8	120 J	80	350	140	1.9 U
	10/27/10	ORIG	1.5	0.18 U	0.18 U	0.18 U	0.25	0.13 U	0.44	0.15 U	0.29	16 J	0.2 U	1.6 J	3	2.6	0.042 U	53	2.8	20 J	5.7	28	9.8	0.59 U
	10/27/10	DUP	1.5	0.18 U	0.18 U	0.18 U	0.26	0.13 U	0.46	0.15 U	0.23	4.4 J	0.2 U	2.4 J	3.2	2.7	0.042 U	54	2.8	12 J	5.6	28	9.8	0.59 U
	11/30/10	ORIG	1.2	0.18 U	0.18 U	0.18 U	0.14	0.21	0.44 J	0.15 U	0.2	2.3	0.2 U	1.2	0.6	2.5	0.042 U	34	3.2	16	2.5	10	3.7	0.59 U
	11/30/10	DUP	1.2	0.18 U	0.18 U	0.18 U	0.14	0.19	0.46 J	0.15 U	0.16 U	2.3	0.2 U	1.1	0.62	2.6	0.042 U	34	3.2	16	2.6	10	3.7	0.59 U
	12/28/10	ORIG	1.1 J	0.18 U	0.19 U	0.19 U	0.13	0.21	0.47 J	0.16 U	0.17 U	1.2 U	0.2 U	1.5	0.65	2.6	0.044 U	22	2.4	8.5	1	3.2 J	1.2 J	0.62 U
	12/28/10	DUP	1.4 J	0.15 U	0.16 U	0.16 U	0.19	0.18	0.46 J	0.13 U	0.14 J	1.1	0.21	1.5	0.68	2.6	0.037 U	23	2.8	9.7	1.2	4 J	1.5 J	0.52 U
	01/26/11	ORIG	1.3	0.17 U	0.17 U	0.17 U	0.15	0.13 U	0.48 J	0.14 U	0.21	4.5	0.19 U	1.8	1	2.5	0.04 U	410 E	4.7	25	3.4	14	4.3	0.57 U
	01/26/11	DUP	1.3	0.16 U	0.16 U	0.16 U	0.14	0.12 U	0.46 J	0.14 U	0.18	4.5	0.18 U	1.8	1.1	2.5	0.039 U	410 E	4.8	25	3.5	14	4.4	0.55 U
	02/28/11	ORIG	0.92 J	0.74 U	0.75 U	0.75 U	0.27 UJ	0.56 U	0.86 U	0.63 U	0.67 U	4.8 U	0.83 U	1.8	1 U	2.1	0.18 U	250	1.9	54	3.6	9.9	2.4	2.5 U
	02/28/11	DUP	0.95	0.74 U	0.75 U	0.75 U	0.27 UJ	0.56 U	0.86 U	0.63 U	0.67 U	4.8 U	0.83 U	1.8	1 U	2.1	0.18 U	260	1.9	54	3.7	10	2.4	2.5 U
	03/30/11	SPLIT	3.3 J	0.24	0.11 U	0.11 U	0.27 J	0.11	0.62 J	0.092 U	0.28 J	3.7	0.17	1.6	0.83 J	2.7	0.026 U	60	2.5 J	11	3.1 J	11 J	4.6 J	0.36 U
	03/30/11	ORIG	2.2 J	0.19 U	0.2 U	0.2 U	0.24 J	0.14 U	0.46 J	0.16 U	0.21 J	3.7	0.22 U	1.5	0.63 J	2.4	0.046 U	67	1.9 J	9.8	1.8 J	7 J	2.5 J	0.64 U
	04/29/11	ORIG	0.73	0.18 U	0.18 U	0.18 U	0.094	0.15	0.45 J	0.15 U	0.16 U	4.9	0.2 J	2.2 J	0.93	2.9	0.042 U	32	1.1	5.6	0.71	2.1	0.7	0.59 U
	05/31/11	ORIG	2.7	0.17 U	0.18 U	0.18 U	0.29	0.13 UJ	0.53 J	0.15 U	0.23	1.1 U	0.19 U	1.3	0.75	2.6	0.041 U	22	1.4	5.4	0.61	1.9	0.69 J	0.58 U
	06/29/11	ORIG	0.59	0.18 U	0.18 U	0.18 U	0.067 U	0.14 U	0.34	0.15 U	0.16 U	1.2 U	0.2 UJ	0.86	0.38	1.6	0.043 U	53	0.69	5.8	0.58	1.9	0.63	0.6 U
	07/27/11	SPLIT	0.81	0.081	0.11 U	0.11 U	0.084	0.089	0.6	0.092 U	0.11	0.69 U	0.25	1.3	0.56	2.9	0.026 U	31 E	0.68	5.5 J	0.88 J	2.8 J	1.1 J	0.36 U
	07/27/11	ORIG	0.78	0.17 U	0.17 U	0.17 U	0.063	0.13 U	0.49 J	0.14 U	0.15 U	1.1 U	0.19 UJ	1.3	0.54	2.4	0.04 U	45 J	0.59	3.9 J	0.49 J	1.4 J	0.39 J	0.57 U
	08/31/11	ORIG	1.2	0.17 U	0.18 U	0.18 U	0.077	0.13 U	0.59	0.15 U	0.16 U	1.1 U	0.19 UJ	2.1	0.61	3	0.041 U	30	0.85	18	5.7	27	9.6	0.58 U
	09/27/11	SPLIT	1.3	0.17	0.11 U	0.3	0.085	0.093	0.56	0.092 U	0.43 J	1.9	0.23	1.5	0.69 J	3.1 J	0.026 U	54	2	12 J	2.5 J	11 J	5.4 J	0.36 U
	09/27/11	ORIG	1.3	0.18 U	0.19 U	0.19 U	0.068 U	0.15	0.46	0.16 U	0.29 J	1.6	0.2 U	1.6	0.53 J	2.3 J	0.044 U	66	1.8	8.5 J	1.8 J	6.4 J	2.8 J	0.62 U
	12/21/11	SPLIT	1.3 J	0.12	0.11 U	0.11 U	0.058	0.082 J	0.63	0.092 U	0.2	0.83	0.12	1.6 J	0.81	2.9	0.026 U	37 J	3	12	4 J	14 J	5.6 J	0.36 U
	12/21/11	ORIG	0.74 J	0.19 U	0.19 U	0.19 U	0.07 U	0.22 J	0.72	0.16 U	0.19	1.2 U	0.21 U	1.3 J	0.68	2.6	0.045 U	29 J	2.9	11	2.9 J	11 J	3.9 J	0.63 U
Maintenance Shop																								
	07/23/08	ORIG	26	1.4	0.2 U	0.2 U	2.1	0.14 U	0.44	0.16 U	0.18	3.7	0.21 J	1.6	2.6	2.2	0.046 U	25	1.6	11	2.2	8.6	2.9	0.64 U
	07/23/08	EPA	48.13 J	4.83 U	4.91 U	4.91 U	4.36 J	3.64 U	5.66 U	4.14 U	4.39 U	6.25 J	5.41 U	5.06 U	6.9 U	4.45 U	2.3 U	--	2.87 U	15.81	3.91 U	9.99 J	3.91 U	--
	03/03/09	ORIG	42	15 U	15 U	15 U	11 U	11 U	17 U	12 U	13 U	9.5 U	16 U	15 U	21 U	14 U	7 U	5600 E	8.7 U	2600	12 U	18	12 U	9.9 U
	07/16/09	ORIG	22	3.8 U	3.8 U	3.8 U	1.7	2.8 U	4.4 U	3.2 U	3.4 U	24 U	4.2 U	3.9 U	5.4 U	3.5 U	0.89 U	2700 E	5.6 U	1700	3 U	6.1 U	3 U	13 U
	08/25/09	ORIG	12	1.7 U	1.7 U	1.7 U	0.61	1.2 U	2 U	1.4 U	1.5 U	11 U	1.9 U	1.9	2.4 U	2.7	0.4 U	1500 E	4.7	720	2.4	7	2.3	5.6 U
	09/30/09	ORIG	29	1.9	0.19 U	0.19 U	2	0.14 U	0.57	0.16 U	0.17 U	7.4	0.48	1.7	2.3 J	2.5	0.045 U	130 E	8.6	100	28	120	52	0.63 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	10/29/09	ORIG	36	2	0.86 U	0.86 U	2.2 J	0.64 U	0.99 U	0.73 U	0.77 U	6.2	0.95 U	1.9	6.2	2.5	0.2 U	890 E	3	490	2.8	8.8	3.3	2.8 U
	11/24/09	ORIG	25	1.3	0.2 U	0.2 U	2	0.14 U	0.47	0.16 U	0.17 U	4	0.22 U	1.5	2.1	2.5	0.046 U	64	6.9	36	8.4	33	11	0.64 U
	12/28/09	ORIG	63	3.3	1 U	1 U	6.4	0.76 U	1.2 U	0.86 U	0.91 U	9.4	1.1 U	3.2	5.3	2.4	0.24 U	1900 E	1.9	25	48	200	73	3.4 U
	01/27/10	ORIG	24	1.3	0.21 U	0.21 U	2.2	0.15 U	0.48	0.18 U	0.19 U	5.6	0.23 U	2	2	2.5	0.049 U	28	2.4	17	6	25	8.9	0.69 U
	02/24/10	ORIG	11	0.89	0.21 U	0.21 U	1.1	0.16 U	0.54	0.18 U	0.19 U	3.3	0.23 U	1.6	1.3	2.8 J	0.05 U	1000 E	2.6	38	4.5	20	8	0.7 U
	03/31/10	ORIG	19	1	0.18 U	0.18 U	1.6	0.2	0.41	0.15 U	0.16 U	7.2	0.2 U	1.3	1.8	2	0.042 U	25	5.3	38	4.3	18	5	0.59 U
	04/28/10	ORIG	46	2.2	0.15 U	0.15 U	3 J	0.11 U	0.41	0.12 U	0.16	8.7	0.16 U	1.7	2.7 J	2.2	0.035 U	34	1.6	9	0.98	3.5	1.1	0.49 U
	05/27/10	ORIG	7.9	0.48	0.19 U	0.19 U	1.2	0.14 U	0.52	0.16 U	0.17 U	4.5	0.2 U	1.9	1.6	2.8	0.044 U	140 E	2.3	19	3.7	15	5.1	0.62 U
	06/18/10	ORIG	2.5 U	2 U	2 U	2 U	0.74 U	1.5 U	2.4 U	1.7 U	1.8 U	13	2.2 U	2.1 U	2.9 U	2.2	0.48 U	1300 E	35	620	64	260	61	6.7 U
	06/24/10	ORIG	0.68	0.18 U	0.18 U	0.18 U	0.066	0.13 UJ	0.42	0.15 U	0.16 U	4.4	0.2 U	1.6	0.54	2.6	0.058	48 J	6.7	37	6.1	36	17	0.59 U
	07/01/10	ORIG	5.9 U	4.7 U	4.8 U	4.8 U	3.5 U	3.5 U	5.5 U	4 U	4.3 U	4.8	5.3 U	4.9 U	6.7 U	4.3 U	2.2 U	380	9.7	21	3.8 U	12	4.5	3.2 U
	07/08/10	ORIG	0.56	0.35 U	0.36 U	0.36 U	0.13 U	0.26 UJ	0.58	0.3 U	0.32 U	5	0.39 U	1.7	0.73	2.4	0.084 U	1000 E	3.8	13	1	3.1	1.1	1.2 U
	07/28/10	ORIG	0.58	0.18 U	0.18 U	0.18 U	0.067 U	0.37	0.44	0.15 U	0.21	3	0.2 U	1.2	0.4	2.1	0.043 U	41	2.1	12	3.6	14	6.2	0.6 U
	08/27/10	ORIG	0.66	0.19 U	0.19 U	0.19 U	0.077	0.14 U	0.41	0.16 U	0.17 U	8.7	0.21 U	1.6 J	0.69	2.3	0.045 U	45	2.2	32	1.7	6.1	1.9	0.63 U
	09/29/10	ORIG	0.65	0.36 U	0.37 U	0.37 U	0.18	0.27 U	0.44	0.31 U	0.33 U	4.2	0.4 U	1.9	1.2	2.8	0.086 U	710 E	2.4	12	8.9	43	17	1.2 U
	10/27/10	ORIG	0.33	0.18 U	0.18 U	0.18 U	0.12	0.13 U	0.41	0.15 U	0.16 U	3.9	0.2 U	1.5	3	2.5	0.042 U	96 E	2	7.9	5.3	31	12	0.59 U
	11/30/10	ORIG	0.47	0.18 U	0.18 U	0.18 U	0.065 U	0.21	0.42 J	0.15 U	0.16 U	2.6	0.2 U	1	0.5	2.4	0.042 U	300 E	3.8	18	4.2	18	6.2	0.59 U
	12/28/10	ORIG	0.74	0.16 U	0.16 U	0.16 U	0.072	0.18	0.47 J	0.14 U	0.14 U	3.6	0.18 U	1.4	0.57	2.5	0.038 U	48	3.5	20	3.6	15	4.5	0.54 U
	01/26/11	ORIG	0.55	0.22 U	0.23 U	0.23 U	0.083 U	0.17 U	0.49 J	0.19 U	0.2 U	3.7	0.25 U	1.5	0.62	2.4	0.054 U	760 E	10	130	8.8	36	9.3	0.76 U
	02/28/11	ORIG	58 U	46 U	47 U	47 U	34 U	35 U	54 U	39 U	42 U	30 U	51 U	48 U	66 U	42 U	22 U	8700 E	27 U	2200	91	260	48	31 U
	03/30/11	ORIG	0.54	0.17 U	0.18 U	0.18 U	0.064 U	0.23	0.49	0.15 U	0.17	3.1	0.19 U	1.4	0.54	2.3	0.041 U	300 E	6.4	29	4.4	20	6	0.58 U
	04/29/11	SPLIT	0.46 J	0.055	0.11 U	0.11 U	0.046	0.081 U	0.55	0.092 U	0.14	8.1	0.12 J	1.6 J	0.73	2.6	0.026 U	28 J	3.3	24 J	6.6 J	27 J	11 J	0.46
	04/29/11	ORIG	0.32 J	0.18 U	0.18 U	0.18 U	0.067 U	0.19	0.44 J	0.15 U	0.16 U	7.8	0.2 J	2 J	0.65	2.8	0.043 U	40 J	3.1	18 J	2.6 J	10 J	3 J	0.6 U
	05/31/11	SPLIT	2.1 J	0.14	0.11 U	0.11 U	0.13	0.097	0.62	0.092 U	0.28	0.78	0.24	1.2	0.73	2.6	0.026 U	21 J	2.8	29	2.1 J	7.7 J	3.3	0.36 U
	05/31/11	ORIG	1.5 J	0.19 U	0.2 U	0.2 U	0.12	0.14 UJ	0.52 J	0.16 U	0.25	1.2 U	0.22 U	1.3	0.66	2.5	0.046 U	29 J	2.5	25	1.2 J	4.4 J	1.6 J	0.64 U
	06/29/11	Split	0.51 J	0.065	0.11 U	0.11 U	0.04 U	0.12	0.63 J	0.092 U	0.13	0.69 U	0.14	1.3	0.62	0.86 J	0.026 U	41	2.4 J	16	4.4 J	14 J	6.7 J	0.36 U
	06/29/11	ORIG	0.37 J	0.18 U	0.18 U	0.18 U	0.065 U	0.13 U	0.45 J	0.34	0.16 U	1.2	0.2 UJ	1.2	0.56	2.4 J	0.042 U	34	3 J	13	2.1 J	7.4 J	2.5 J	0.59 U
	07/27/11	ORIG	0.57	0.19 U	0.19 U	0.19 U	0.069 U	0.14 U	0.53 J	0.54	0.17 U	1.4	0.21 UJ	1.4	0.58	2.6	0.045 U	100 E	7	36	6.1	25	8	0.63 U
	08/31/11	Split	1.1	0.11	0.48 U	0.48 U	0.17 U	0.35 U	0.55 U	0.49	0.43 U	3 U	0.53 U	2.1	0.75	2.7	0.11 U	68 J	3.3	180	72 J	300	150 J	1.6 U
	08/31/11	ORIG	1	0.47 U	0.48 U	0.53	0.17 U	0.35 U	0.58	0.4 U	0.43 U	3 U	0.53 UJ	2	0.67	3	0.11 U	93 J	3	160	54 J	250	98 J	1.6 U
	09/27/11	ORIG	0.92	0.19 U	0.19 U	0.19 U	0.069 U	0.14 U	0.46	0.2	0.32	1.7	0.21 U	1.7	0.56	2.5	0.045 U	120 E	2.2	13	3.1	13	4.8	0.63 U
	12/21/11	ORIG	0.46	0.18 U	0.18 U	0.18 U	0.067 U	0.17	0.71	0.16 U	0.17 U	1.2 U	0.2 U	1.3	0.61	2.6	0.043 U	290 E	4.4	24	27	110	42	0.61 U
Second floor office area																								
	05/11/04	ORIG	100	4	0.49	0.2 U	21	0.15 U	0.62	0.17 U	0.23	1.4	0.22 U	6.9	26	2.6	0.046 U	43	1.4	8.7	1.5	5.5	2.1	0.66 U
	09/14/05	ORIG	45	1.7	0.2 U	0.2 U	6	0.15 U	0.63	0.17 U	0.21	1.3	0.22 U	3.4	6.8	1.5	0.047 U	37	1.2	6.5	0.95	3.3	0.96	0.66 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	07/23/08	ORIG	140	5.9	0.19 U	0.19 U	12	0.14 U	0.44	0.16 U	0.43	1.5	0.21 U	3.1	10	2.3	0.045 U	37	0.88	7	0.88	3.1	1.1	0.63 U
	03/03/09	ORIG	330	12	0.52 U	0.52 U	41	0.39 U	0.6 U	0.44 U	0.59	3.3 U	0.57 U	11	37	2.5	0.12 U	110	2	49	1.5	4.9	2	1.7 U
	07/16/09	ORIG	47	2.1	0.19 U	0.19 U	2.6	0.14 U	0.55	0.16 U	0.31	1.4	0.21 U	2	1.6	2.4	0.045 U	180 E	1.7	89	0.65	2	0.7	0.63 U
	08/25/09	ORIG	18	1.1	0.16 U	0.16 U	0.92	0.12 U	0.54	0.14 U	0.33	1.5	0.18 U	1.6	1.2	2.6	0.039 U	54	1.9	13	0.81	2.4	0.78	0.55 U
	09/30/09	ORIG	39	1.7	0.19 U	0.19 U	1.4	0.14 U	0.64	0.16 U	0.22	4.2	0.2 U	1.7	1.8 J	2.9	0.044 U	34	2.1	28	7.3	38	13	0.62 U
	10/29/09	ORIG	95	3.8	0.19 U	0.19 U	4.7 J	0.14 U	0.43	0.16 U	0.28	1.9	0.2 U	2	8.1	2.4	0.044 U	79	2.1	22	1	3	1.1	0.62 U
	11/24/09	ORIG	240	9.5	0.35 U	0.35 U	19	0.26 U	0.42	0.3 U	0.61	3.2	0.39 U	4.2	14	2.4	0.082 U	84	3.1	19	4.2	14	5	1.2 U
	12/28/09	ORIG	520	20	0.89 U	0.89 U	57	0.66 U	1 U	0.76 U	0.97	8.6	0.99 U	14	39	2.2	0.21 U	2300 E	2.8	34	39	150	47	3 U
	01/27/10	ORIG	540	20	0.81 U	0.81 U	59	0.6 U	0.94 U	0.68 U	1.1	5.3	0.9 U	14	40	2.2	0.19 U	86	3.7	40	6.6	23	8.3	2.7 U
	02/24/10	ORIG	970	36	1.4 U	1.4 U	100	1.1 U	1.6 U	1.2 U	1.8	9.2 U	1.6 U	20	74	2.8 J	0.34 U	110	5	37	12	48	19	4.7 U
	03/31/10	ORIG	48	1.8	0.2 U	0.2 U	3.6	0.15 U	0.42	0.17 U	0.18 U	1.3 U	0.22 U	1.8	4.2	2.2	0.047 U	13	0.51	1.4	0.2	0.56	0.2	0.66 U
	04/28/10	ORIG	62	2.9	0.2 U	0.2 U	4.7 J	0.15 U	0.42	0.17 U	0.18 U	1.3 U	0.22 U	2	4.4 J	2.4	0.047 U	12	0.43	1.2	0.16	0.45	0.16	0.66 U
	05/27/10	ORIG	660	24	0.7 U	0.7 U	85	0.52 U	0.81 U	0.59 U	1.2	5.7	0.78 U	12	54	2.9	0.16 U	54	1.9	11	2	6.1	2	2.3 U
	06/24/10	ORIG	3.9	0.24	0.19 U	0.19 U	0.43	0.14 UJ	0.4	0.16 U	0.17 U	2.6	0.21 U	1.8	0.59	2.5	0.045 U	43 J	3.2	16	2.4	11	4.3	0.63 U
	07/01/10	ORIG	3.4	0.36 U	0.37 U	0.37 U	0.17	0.27 U	0.42 J	0.31 U	0.33 U	3.2	0.4 U	2.1	0.71	2.5	0.086 U	120	3	9.1	0.98	3	1.2	1.2 U
	07/08/10	ORIG	1.5	0.25 U	0.26 U	0.26 U	0.093 U	0.19 UJ	0.42	0.22 U	0.23 U	4	0.28 U	1.6	0.64	2.5	0.06 U	770 E	3.2	12	0.95	2.9	1	0.84 U
	07/28/10	ORIG	4	0.29	0.18 U	0.18 U	0.24	0.14 U	0.38	0.15 U	0.16 U	3.9	0.2 U	1.4	0.54	2	0.043 U	150 E	1.9	9.2	2.8	11	4.6	0.6 U
	08/27/10	ORIG	2	0.22 U	0.22 U	0.22 U	0.08 U	0.16 U	0.4	0.18 U	0.2 U	3.4	0.24 U	1.8 J	0.59	2.1	0.051 U	42	1.5	16	0.83	2.4	0.96	0.72 U
	09/29/10	ORIG	2.4	0.88 U	0.89 U	0.89 U	0.54	0.66 U	1 U	0.76 U	0.8 U	17	0.99 U	2.9	1.4	2.5	0.21 U	320	5.6	200	130	520	200	3 U
	10/27/10	ORIG	1.3	0.18 U	0.18 U	0.18 U	0.24	0.14 U	0.43	0.15 U	0.25	12	0.2 U	2.4	3	2.5	0.043 U	56	2.5	16	5.2	27	9.3	0.6 U
	11/30/10	ORIG	1	0.18 U	0.18 U	0.18 U	0.12	0.16	0.42 J	0.15 U	0.16 U	2.4	0.2 U	1.1	0.61	2.5	0.042 U	34	3	16	2.5	10	3.6	0.59 U
	12/28/10	ORIG	1.4	0.14	0.14 U	0.14 U	0.25	0.17	0.5 J	0.12 U	0.14	1.3	0.21	1.6	0.7	2.5	0.034 U	30	2.9	13	1.5	5	1.6	0.48 U
	01/26/11	ORIG	1.3	0.2 U	0.2 U	0.2 U	0.14	0.15 U	0.52 J	0.17 U	0.31	4.1	0.22 U	1.8	0.98	2.6	0.048 U	410 E	4.5	25	3.3	13	4.2	0.67 U
	02/28/11	ORIG	0.68	0.34 U	0.34 U	0.34 U	0.14 J	0.25 U	0.4	0.29 U	0.3 U	2.2 U	0.38 U	1.7	0.66	2.3	0.08 U	130	1.5	27	2	5.4	1.4	1.1 U
	03/30/11	ORIG	1.1	0.18 U	0.18 U	0.18 U	0.16 J	0.17	0.52	0.15 U	0.2	2.8	0.2 U	1.7	0.75	2.6	0.042 U	39	1.7	7.5	1.2	4.1	1.4	0.59 U
	04/29/11	ORIG	0.68	0.18 U	0.18 U	0.18 U	0.081	0.16	0.39 J	0.15 U	0.16 U	4.5	0.2 J	2.2 J	0.9	2.9	0.042 U	31	1.2	6.3	0.68	2	0.67	0.59 U
	05/31/11	ORIG	2.4	0.19	0.19 U	0.19 U	0.24	0.14 UJ	0.52 J	0.16 U	0.23	1.2 U	0.2 U	1.3	0.74	2.6	0.044 U	20	1.4	5.7	0.62	2	0.72 J	0.62 U
	06/29/11	ORIG	0.8	0.18 U	0.18 U	0.18 U	0.066 U	0.13 U	0.48	0.15 U	0.16 U	1.2 U	0.2 UJ	1.3	0.56	2.3	0.042 U	58	1.1	6.7	0.8	2.6	1	0.6 U
	07/27/11	ORIG	0.86	0.16 U	0.16 U	0.16 U	0.079	0.12 U	0.56 J	0.14 U	0.14 U	1 U	0.18 UJ	1.5 J	0.59	2.7	0.038 U	44	0.63	3.8	0.55	1.8	0.61	0.54 U
	08/31/11	ORIG	1.1	0.18 U	0.18 U	0.18 U	0.089	0.13 U	0.61	0.15 U	0.16 J	1.1 U	0.2 UJ	2.1	0.66	2.9	0.042 U	27	0.91	24	8	36	13	0.59 U
	09/27/11	ORIG	0.88	0.18 U	0.19 U	0.19 U	0.09	0.14 U	0.5	0.16 U	0.3	2.1	0.2 U	1.6	0.6	2.6	0.044 U	47	1.8	6.8	1.3	4.5	2.1	0.62 U
	12/21/11	ORIG	0.53	0.18 U	0.18 U	0.18 U	0.067 U	0.2	0.71	0.16 U	0.16	1.2 U	0.2 U	1.3	0.67	2.6	0.043 U	19	2.3	8.3	1.8	6.4	2.3	0.61 U
Women and Children's Crisis Shelter																								
First Floor Great Room																								
	05/27/10	ORIG	8	0.78	0.19 U	0.19 U	4.6 J	0.14 U	0.5	0.16 U	0.17 U	1.2 U	0.2 U	2	2 J	2.8	0.044 U	11	0.55	1.8	0.24	0.58	0.2	0.62 U

Table 1
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Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	07/01/10	ORIG	4.3	0.4	0.17 U	0.17 U	1.6	0.25	0.29	0.14 U	0.23	2.3	0.19 U	1.8	0.87	2.5	0.04 U	52	0.87	29	2.8	21	3	0.56 U
	07/28/10	ORIG	4.7	0.47	0.2 U	0.2 U	1.4	0.15 U	0.37	0.17 U	0.18 U	1.3 U	0.22 U	1.3	0.74	2	0.047 U	17	0.57	1.8	0.39	0.96	0.3	0.66 U
	08/27/10	ORIG	3.9	0.23	0.2 U	0.2 U	1.1	0.14 U	0.43	0.16 U	0.17 U	1.2 U	0.22 U	1.6	0.74	2.1	0.046 U	16	0.8	2.5	0.36	0.78	0.36	0.64 U
	10/07/10	ORIG	5.8	0.28	0.19 U	0.19 U	1.1	0.14 U	0.45	0.16 U	0.17 U	1.2 U	0.21 U	2	0.88	2.8	0.045 U	16	0.6	1.8	0.21	0.52	0.16	0.63 U
	10/27/10	ORIG	3.1	0.14	0.15 U	0.15 U	0.28	0.11 U	0.44	0.12 U	0.13 U	1	0.16 U	1.8	1.1	2.6	0.035 U	9.4	0.94	2.5	0.35	1	0.33	0.49 U
	11/30/10	ORIG	15	0.6	0.19 U	0.19 U	2.6	0.14 U	0.32 J	0.16 U	0.17 U	1.2 U	0.2 U	1	0.84	1.7	0.044 U	1200 E	1	2.5	0.49	1.5	0.51	0.62 U
	12/28/10	ORIG	4.8	0.39	0.15 U	0.15 U	0.5	0.19	0.49 J	0.12 U	0.17	0.95	0.16 U	1.6	0.86	2.6	0.034 U	19	4.3	12	1.2	3.6	0.97	0.48 U
	01/26/11	ORIG	2.9	0.17 J	0.17 U	0.17 U	0.21	0.2	0.33 J	0.14 U	0.16	1.2	0.19 U	1.6	0.6	2.6	0.04 U	23	1.4	5.2	0.65	2	0.81	0.57 U
	02/28/11	ORIG	2	0.19 U	0.2 U	0.2 U	0.32 J	0.14 U	0.41	0.16 U	0.17 U	1.2 U	0.22 U	1.4	0.7	2.5	0.046 U	9.9	0.97	2.2	0.35	1	0.34	0.64 U
	03/30/11	ORIG	5.3	0.29 J	0.3 U	0.3 U	3.1	0.22 U	0.48	0.25 U	0.26 U	1.9 U	0.33 U	1.8	2	2.4	0.07 U	17	1.2	4	0.61	1.8	0.56 J	0.98 U
	04/29/11	ORIG	4.9	0.22	0.18 U	0.18 U	0.68	0.15	0.48	0.15 U	0.16 U	1.1 U	0.2 UJ	2.4	1.6	3.2	0.042 U	12	0.48	1.6	0.16	0.35	0.14 U	0.59 U
	05/31/11	ORIG	3.4	0.19 U	0.19 U	0.19 U	0.49	0.14 UJ	0.54 J	0.16 U	0.17	1.2 U	0.21 U	1.3	0.99	2.6	0.045 U	14	0.99	3.1	0.42	1.2	0.43 J	0.63 U
	06/29/11	ORIG	4.2	0.2	0.16 U	0.16 U	0.46	0.12 U	0.49	0.14 U	0.15 U	1 U	0.18 UJ	1.3	0.85	2.4	0.038 U	25	0.57	1.8	0.31	0.91	0.44	0.54 U
	07/27/11	ORIG	6	0.3	0.17 U	0.17 U	0.85	0.13 U	0.5	0.14 U	0.15 U	1.1 U	0.19 UJ	1.4 J	1	2.5	0.04 U	10	0.32	1	0.18	0.52	0.19	0.57 U
	08/31/11	ORIG	6.1	0.32	0.18 U	0.18 U	0.9	0.14 U	0.68	0.15 U	0.26	1.6	0.2 UJ	2.2	1.3	3.2	0.043 U	20	0.52	1.6	0.23	0.59	0.22	0.6 U
	09/27/11	ORIG	5.3	0.37	0.19 U	0.19 U	5	0.14	0.44	0.16 U	0.31	2	0.2 U	3.6	1.1	2.4	0.044 U	31	1.7	5.6	1.7	8.8	5.5	0.62 U
	10/28/11	SPLIT	3.5 J	0.31 J	0.11 U	0.11 U	0.51 J	0.11	0.69 J	0.092 U	0.42 J	1.8	0.42	1.6	1.3 J	2.1	0.026 U	29 J	3.9 J	14 J	2.9 J	11 J	3.9 J	0.36 U
	10/28/11	ORIG	2.4 J	0.21 J	0.2 U	0.2 U	0.31 J	0.16	0.52 J	0.16 U	0.61 J	1.2 U	0.46	1.4 J	0.76 J	2.5	0.046 U	120 E	1.9 J	6.4 J	0.94 J	3.5 J	1.3 J	0.64 U
	11/30/11	SPLIT	2 J	0.21 J	0.62	0.11 U	0.19 J	0.37 J	0.93 J	0.092 U	0.46	1.4	0.29	2.3 J	1.3	3.7 J	0.026 U	31 J	3.2 J	13 J	2.3 J	7.2 J	2.3 J	0.36 U
	11/30/11	ORIG	3.9 J	0.38 J	0.19 U	0.19 U	0.53 J	0.18 J	0.49 J	0.16 U	0.36	1.7	0.21 UJ	1.6 J	1.3	2.4 J	0.045 U	39 J	2.4 J	8.1 J	1.3 J	4.3 J	1.6 J	0.63 U
First Floor Office (Northwest Corner of Building)																								
	05/27/10	ORIG	13	1	0.17 U	0.17 U	7.9 J	0.13 U	0.55	0.14 U	0.15 U	1.1 U	0.19 U	2.6	3.1 J	2.9	0.04 U	26	0.53	1.8	0.25	0.6	0.2	0.57 U
	07/01/10	ORIG	8.9	0.65	0.19 U	0.19 U	4	0.14 U	0.45	0.16 U	0.2	1.4	0.2 U	2.2	1.5	2.8	0.044 U	36	0.88	2.5	0.24	0.51	0.27	0.62 U
	07/28/10	ORIG	4.5	0.44	0.2 U	0.2 U	1.4	0.14 U	0.22 U	0.16 U	0.17 U	1.2 U	0.22 U	1.3	0.79	2.1	0.046 U	39	0.61	1.9	3.2	8.3	1.7	0.64 U
	08/27/10	ORIG	4.6	0.23	0.18 U	0.18 U	0.53	0.13 U	0.44	0.15 U	0.16 J	1.1 U	0.2 U	1.6	0.74	2.2	0.042 U	20	0.79	2.3	0.3	0.7	0.25	0.59 U
	10/07/10	ORIG	6	0.27	0.19 U	0.19 U	1.3	0.14 U	0.44	0.16 U	0.17 U	1.2 U	0.21 U	1.9	0.86	2.6	0.045 U	20	0.74	1.9	0.24	0.62	0.22	0.63 U
	10/27/10	ORIG	1.9	0.18 U	0.18 U	0.18 U	0.14	0.13 U	0.4	0.15 U	0.16 U	1.2	0.2 U	1.8	0.88	2.6	0.042 U	14	0.69	4.8	0.17	0.3	0.14 U	0.59 U
	11/30/10	ORIG	24	18 U	18 U	18 U	13 U	14 U	21 U	15 U	16 U	12 U	20 U	19 U	26 U	2.8 J	8.6 U	67	2.4 J	4.1 J	14 U	2.2 J	14 U	12 U
	12/28/10	ORIG	3.9	0.19	0.16 U	0.16 U	0.46	0.17	0.48 J	0.13 U	0.14 U	1 U	0.17 U	1.6	0.85	2.7	0.037 U	13	1.3	3.8	0.48	1.3	0.42	0.52 U
	01/26/11	ORIG	3.5	0.19	0.19 U	0.19 U	0.28	0.2	0.34 J	0.16 U	0.17 U	1.2	0.21 U	1.6	0.62	2.6	0.045 U	19	1.4	4.6	0.63	1.8	0.55	0.63 U
	02/28/11	ORIG	2.4	0.18 U	0.18 U	0.18 U	0.39 J	0.13 J	0.42	0.15 U	0.16 U	2.9	0.2 U	1.7	0.72	2.5	0.042 U	11	1	2.6	0.4	1.2	0.4	0.59 U
	03/30/11	ORIG	4.1	0.24	0.17 U	0.17 U	0.6 J	0.13 U	0.5	0.14 U	0.21	2.1	0.19 U	1.6	1	2.6	0.04 U	20	1.2	7	0.6	1.5	0.48 J	0.57 U
	04/29/11	ORIG	3.4 J	0.35 J	0.15 UJ	0.15 UJ	0.53 J	0.24 J	0.44 J	0.12 UJ	0.19 J	1.8 J	0.16 UJ	2 J	1.1 J	2.9 J	0.034 UJ	26 J	0.73 J	14 J	0.65 J	1.1 J	0.33 J	0.48 UJ
	05/31/11	ORIG	3.7	0.18 U	0.19 U	0.19 U	0.46	0.14 UJ	0.53 J	0.16 U	0.2	1.2 U	0.2 U	1.3	0.96	2.6	0.044 U	14	1	3.2	0.44	1.3	0.45 J	0.62 U
	06/29/11	ORIG	4.3	0.19	0.18 U	0.18 U	0.39	0.14 U	0.48	0.15 U	0.16 U	1.2 U	0.2 UJ	1.2	0.77	2.2	0.043 U	26	0.49	1.6	0.28	0.86	0.31	0.6 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	07/27/11	ORIG	16	0.74	0.16 U	0.16 U	2.2	0.12 U	1.3 J	0.14 U	0.3	1.9	0.18 UJ	3.2 J	2.6	6.2	0.039 U	28	0.79	2.7	0.44	1.3	0.47	0.55 U
	08/31/11	ORIG	6.1	0.31	0.18 U	0.18 U	0.84	0.14 U	0.61	0.16 U	0.17	1.2 U	0.2 UJ	2.1	1.2	3	0.043 U	17	0.5	1.6	0.22	0.6	0.23	0.61 U
	09/27/11	ORIG	5.6	0.39	0.19 U	0.19 U	5.2	0.14	0.49	0.16 U	0.36	2.4	0.21 U	4.1	1.3	2.5	0.045 U	34	1.7	5.5	1.6	8.1	5	0.63 U
	10/28/11	ORIG	2.4	0.2	0.19 U	0.19 U	0.32	0.16	0.5	0.16 U	0.45	1.3	0.32	1.4	0.75	2.4	0.045 U	110 E	1.9	6.1	0.9	3.4	1.5	0.63 U
	11/30/11	ORIG	3.7	0.36	0.19 U	0.19 U	0.51	0.19	0.46	0.16 U	0.35	1.7	0.24 J	1.6	1.3	2.4	0.044 U	38	2.4	8.3	1.3	4.5	1.6	0.62 U
First Floor Outside Elevator																								
	05/27/10	ORIG	21	1.4	0.2 U	0.2 U	12 J	0.15 U	0.53	0.17 U	0.18 U	1.3 U	0.22 U	2.9	4.8 J	2.7	0.047 U	21	0.64	2	0.29	0.74	0.26	0.66 U
	07/01/10	ORIG	11	0.75	0.19 U	0.19 U	3.9	0.73	0.44	0.16 U	0.36	1.2 U	0.21 U	2.2	1.5	2.7	0.045 U	27	1.6	2.6	0.23	0.47	0.17	0.63 U
	07/28/10	ORIG	5.5	0.47	0.18 U	0.18 U	1.4	0.13 U	0.41	0.15 U	0.16 U	1.1 U	0.2 U	1.3	0.71	2.1	0.042 U	14	0.58	2.2	0.65	1.6	0.43	0.59 U
	08/27/10	ORIG	5.1	0.24	0.19 U	0.19 U	0.37	0.14 U	0.42	0.16 U	0.17 U	1.2 U	0.21 U	1.6	0.62	2.1	0.045 U	15	0.79	2.3	0.31	0.76	0.26	0.63 U
	10/07/10	ORIG	5.5	0.26	0.18 U	0.18 U	1.1	0.14 U	0.46	0.15 U	0.16 U	1.2 U	0.2 U	1.9	0.84	2.6	0.043 U	15	0.61	1.8	0.21	0.53	0.18	0.6 U
	10/07/10	DUP	5.6	0.26	0.17 U	0.17 U	1.3	0.14	0.47	0.14 U	0.15 U	1.1 U	0.19 U	2	1	2.8	0.04 U	14	0.62	1.8	0.21	0.53	0.18	0.57 U
	10/27/10	ORIG	3.7	0.24	0.38	0.15 U	0.51	0.11 U	0.45	0.12 U	0.15	0.94 U	0.16 U	1.9	1.3	2.6	0.035 U	9.7	1.3	3.4	0.49	1.4	0.46	0.49 U
	11/30/10	ORIG	26	14 U	14 U	14 U	10 U	11 U	17 U	12 U	13 U	9.2 U	16 U	15 U	20 U	2.4 J	6.7 U	28	2.5 J	6.4 J	11 U	3.8 J	1.4 J	9.5 U
	12/28/10	ORIG	6.5	0.36	0.15 U	0.15 U	0.91	0.19	0.5 J	0.12 U	0.19	0.93 U	0.16 U	1.6	1	2.7	0.034 U	22	4.2	11	1.3	4.4	1.3	0.48 U
	01/26/11	ORIG	3.8	0.19	0.19 U	0.19 U	0.34	0.2	0.51 J	0.16 U	0.17 J	1.3	0.21 U	1.6	0.7	2.6	0.045 U	23	1.5	4.7	0.65	1.9	0.58	0.63 U
	02/28/11	SPLIT	0.42 J	0.066	0.72	0.11 U	0.04 U	0.49	0.94 J	0.092 U	0.52	1.2	0.33	1.9 J	1 J	0.56 J	0.026 U	24 J	2.3 J	14 J	0.94 J	2.8 J	0.95 J	0.36 U
	02/28/11	ORIG	2.8 J	0.19 U	0.2 U	0.2 U	0.4 J	0.14 U	0.4 J	0.16 U	0.17 U	1.2 U	0.22 U	1.5 J	0.69 J	2.4 J	0.046 U	8.8 J	0.98 J	2.2 J	0.36 J	1 J	0.34 J	0.64 U
	03/30/11	ORIG	4.8	0.26	0.17 U	0.17 U	1 J	0.16	0.49	0.14 U	0.2	1.3	0.19 U	1.6	1.6 J	2.6	0.04 U	20	1.2	4	0.63	1.7	0.52 J	0.56 U
	03/30/11	DUP	4.7	0.26	0.18 U	0.18 U	0.64 J	0.14 U	0.51	0.15 U	0.21	1.4	0.2 U	1.7	1.1 J	2.6	0.043 U	19	1.2	4	0.64	1.8	0.52 J	0.6 U
	04/29/11	ORIG	5.2	0.23	0.18 U	0.18 U	0.74	0.17	0.48	0.15 U	0.16 U	1.1 U	0.19 UJ	2.2	1.5	3	0.041 U	11	0.48	1.5	0.19	0.46	0.14 U	0.58 U
	04/29/11	DUP	5.1	0.23	0.18 U	0.18 U	0.67	0.15	0.47	0.15 U	0.16 U	1.2 U	0.2 UJ	2.2	1.5	3	0.043 U	12	0.48	1.5	0.19	0.43	0.14 U	0.6 U
	05/31/11	ORIG	3.4	0.19 U	0.19 U	0.19 U	0.45	0.14 UJ	0.51 J	0.16 U	0.2	1.2 U	0.21 U	1.2	0.93	2.6	0.045 U	14	1	3.1	0.44	1.4	0.47 J	0.63 U
	06/29/11	ORIG	3.6	0.17 J	0.18 U	0.18 U	0.38	0.13 U	0.49	0.15 U	0.16 U	1.1 U	0.2 UJ	1.2	0.77	2.3	0.042 U	20	0.51	1.8	0.37	0.96	0.4	0.59 U
	07/27/11	ORIG	6.9	0.36	0.15 U	0.15 U	1	0.11 U	0.57	0.13 U	0.15	0.96 U	0.18 J	1.5 J	1.2	2.7	0.036 U	9.9	0.34	1	0.2	0.56	0.21	0.5 U
	08/31/11	ORIG	6	0.3	0.2 U	0.2 U	0.84	0.15 U	0.57	0.17 U	0.18 U	1.3 U	0.22 UJ	2.1	1.2	3.1	0.047 U	14	0.56	1.6	0.27	0.81	0.31	0.66 U
	09/27/11	ORIG	5.4	0.38	0.19 U	0.19 U	4.8	0.14 U	0.45	0.16 U	0.33	2.6 J	0.2 U	3.6	1.2	2.4	0.044 U	34	1.7	5.4	1.7	8.4	5.2	0.62 U
	09/27/11	DUP	5.5	0.37	0.19 U	0.19 U	4.7	0.15	0.44	0.16 U	0.32	2 J	0.21 U	3.5	1.1	2.3	0.045 U	31	1.8	5.6	1.7	8.8	5.4	0.63 U
	10/28/11	ORIG	2.4	0.21	0.19 U	0.19 U	0.32	0.16	0.51	0.16 U	0.47	1.2 U	0.37	1.4	0.78	2.4	0.045 U	84	1.9	6.3	0.93	3.5	1.3	0.63 U
	11/30/11	ORIG	3.9	0.37	0.18 U	0.18 U	0.52	0.18	0.47	0.15 U	0.36	1.7	0.2 UJ	1.5	1.3	2.4	0.043 U	40	2.4	8.4	1.3	4.4	1.6	0.6 U
Middle Office on First Floor																								
	03/31/10	ORIG	490	20	0.48 U	0.48 U	180	0.35 U	0.55 U	0.4 U	0.76	3 U	0.53 U	29	120	2.4	0.11 U	21	0.7 U	1.5	0.38 U	0.76 U	0.38 U	1.6 U
	05/27/10	SPLIT	17 J	1.3	0.11 U	0.11 U	7.7	0.093	0.6	0.092 U	0.12	0.55	0.34	2.1	3	2.4	0.026 U	15	0.66	3.6 J	0.54 J	1.6 J	0.66 J	0.35 U
	05/27/10	ORIG	13 J	1.1	0.19 U	0.19 U	8.4 J	0.14 U	0.54	0.16 U	0.17 U	1.2 U	0.2 U	2.5	3.6 J	2.9	0.044 U	16 J	0.6	1.8 J	0.26 J	0.64 J	0.24 J	0.62 U
	05/27/10	DUP	13	1	0.18 U	0.18 U	8.1 J	0.13	0.54	0.15 U	0.16 U	1.1 U	0.19 U	2.5	3.5 J	2.8	0.041 U	13 J	0.53	1.8	0.27	0.58	0.29	0.58 U

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Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	07/01/10	SPLIT	5.1 J	0.36 J	0.11 U	0.11 U	1.9 J	0.081 U	0.59 J	0.092 U	0.39	0.73	0.19	1.6 J	1.1 J	2.6 J	0.026 U	8.3 J	0.95 J	3.7 J	0.64 J	2.1 J	0.87 J	0.36 U
	07/01/10	ORIG	3.3 J	0.29 J	0.19 U	0.19 U	0.96 J	0.14 U	0.31 J	0.16 U	0.17 U	1.2 U	0.21 U	1.2 J	0.62 J	1.5 J	0.045 U	16 J	0.51 J	1.6 J	0.16 J	0.37 J	0.17 J	0.63 U
	07/28/10	ORIG	4.1	0.41	0.2 U	0.2 U	1.1	0.14 U	0.41	0.16 U	0.17 U	1.2 U	0.22 U	1.3	0.69	2	0.046 U	15 J	0.58	1.8 J	0.61	1.5	0.42	0.64 U
	07/28/10	DUP	3.7	0.43	0.18 U	0.18 U	0.9	0.14 U	0.4	0.15 U	0.16 U	1.2 U	0.2 U	1.3	0.62	2	0.043 U	24 J	0.61	17 J	0.67	1.6	0.47	0.6 U
	08/27/10	ORIG	4	0.21	0.21 U	0.21 U	0.33	0.16 U	0.37	0.18 U	0.19 U	1.4 U	0.24 U	1.7 J	0.66	2.2	0.05 U	13	0.74	2.2	0.27	0.61	0.19	0.71 U
	08/27/10	DUP	3.9	0.2	0.2 U	0.2 U	0.3	0.15 U	0.37	0.17 U	0.18 U	1.3 U	0.22 U	1.1 J	0.61	2.2	0.048 U	15	0.74	2.2	0.28	0.66	0.21	0.67 U
	10/07/10	ORIG	5.5	0.26	0.18 U	0.18 U	1.1	0.15	0.46	0.15 U	0.23	1.1 U	0.2 U	1.9	0.85	2.7	0.042 U	17	0.62	1.8	0.23	0.53	0.18	0.59 U
	10/27/10	ORIG	2	0.18 U	0.18 U	0.18 U	0.12	0.13 U	0.44	0.15 U	0.16 U	1.1 U	0.2 U	1.3	0.86	2.6	0.042 U	14	0.55	1.4	0.2	0.56	0.19	0.59 U
	11/30/10	ORIG	24 J	22 U	22 U	22 U	16 U	16 U	25 U	18 U	20 U	14 U	24 U	23 U	31 U	20 U	10 U	140	2.3 J	6.7 J	17 U	3.2 J	17 U	14 U
	12/28/10	ORIG	6.8	0.43	0.15 U	0.15 U	1	0.13	0.53 J	0.12 U	0.19	1.1	0.16	1.7	1.1	2.8	0.034 U	21	4.7	12	1.6	5.4	1.6	0.48 U
	01/26/11	ORIG	3.4	0.19	0.18 U	0.18 U	0.32	0.18	0.51 J	0.15 U	0.17	1.2	0.19 U	1.3	0.68	2.7	0.041 U	20	1.5	4.6	0.66	1.9	0.57	0.58 U
	02/28/11	ORIG	2.8	0.19 U	0.2 U	0.2 U	0.42 J	0.14 U	0.41	0.16 U	0.17 U	1.2 U	0.22 U	1.7	0.73	2.5	0.046 U	9.4	1	2.2	0.36	1	0.36	0.64 U
	03/30/11	ORIG	4.6	0.24	0.18 U	0.18 U	0.53 J	0.15	0.43	0.15 U	0.2	1.3	0.2 U	0.94	1	2.5	0.043 U	14	1.2	3.9	0.65	1.8	0.5 J	0.6 U
	04/29/11	ORIG	5.8	0.25	0.16 U	0.16 U	1.2	0.13	0.47	0.13 U	0.14 J	1 U	0.17 UJ	2.2	1.6	2.9	0.037 U	12	0.48	1.1	0.24	0.6	0.14	0.52 U
Second Floor Office																								
	05/27/10	ORIG	4.3	0.54	0.19 U	0.19 U	2.8 J	0.14 U	0.51	0.16 U	0.17 U	1.2 U	0.2 U	1.9	1.7 J	2.7	0.044 U	20	0.52	1.9	0.24	0.58	0.19	0.62 U
	07/01/10	ORIG	3.2	0.35	0.2 U	0.2 U	1.4	0.15 U	0.39	0.17 U	0.18	1.3 U	0.22 U	1.8	0.9	2.6	0.047 U	38	0.9	2.5	0.22	0.48	0.24	0.66 U
	07/28/10	ORIG	2.5	0.3	0.18 U	0.18 U	0.65	0.13 U	0.38	0.15 U	0.16 U	1.1 U	0.2 U	1.2	0.63	2	0.042 U	15	0.58	1.9	0.43	0.93	0.32	0.59 U
	08/27/10	ORIG	2.4	0.19 U	0.2 U	0.2 U	0.28	0.14 U	0.41	0.16 U	0.17 U	1.2 U	0.22 U	1.6	0.61	2.1	0.046 U	18	0.82	2.4	0.29	0.69	0.25	0.64 U
	10/07/10	ORIG	4	0.19	0.18 U	0.18 U	1.4	0.13 U	0.46	0.15 U	0.16	1.1 U	0.2 U	1.9	1.2	2.7	0.042 U	16	0.63	2.2	0.24	0.58	0.23	0.59 U
	10/27/10	ORIG	1.7	0.19 U	0.19 U	0.19 U	0.19	0.14 U	0.44	0.16 U	0.17 U	1.2 U	0.21 U	1.7	0.92	2.6	0.045 U	11	0.74	1.9	0.28	0.76	0.25	0.63 U
	10/27/10	DUP	1.6	0.19 U	0.19 U	0.19 U	0.19	0.14 U	0.38	0.16 U	0.17 U	1.2 U	0.21 U	1.6	0.9	2.6	0.045 U	9.5	0.72	2	0.27	0.76	0.25	0.63 U
	11/30/10	ORIG	9 J	0.4	0.15 U	0.15 U	1.7 J	0.11 U	0.31 J	0.13 U	0.14 U	0.98 U	0.17 U	1.1	0.65 J	1.6 J	0.036 U	17 J	0.99 J	2.3 J	0.37 J	1.1 J	0.36	0.51 U
	11/30/10	DUP	14 J	0.61	0.21 U	0.21 U	2.4 J	0.15 U	0.41 J	0.18 U	0.19 U	1.3 U	0.23 U	1.2	0.94 J	2.3 J	0.049 U	43 J	1.3 J	3 J	0.5 J	1.4 J	0.46	0.69 U
	12/28/10	ORIG	5	0.29	0.15 U	0.15 U	0.7	0.2	0.5 J	0.12 U	0.45	0.93 U	0.16 U	1.6	1	2.7	0.034 U	15	2.1	5.6	0.72	2	0.64 J	0.48 U
	12/28/10	DUP	4.6	0.27	0.16 U	0.16 U	0.65	0.14	0.48 J	0.14 U	0.4	1 U	0.18 U	1.6	0.99	2.6	0.038 U	17	2.1	5.7	0.71	2.1	0.82 J	0.54 U
	01/26/11	ORIG	3.6	0.21	0.18 U	0.18 U	0.3	0.23	0.5 J	0.15 U	0.33	1.3	0.2 U	1.6	0.71	2.5	0.042 U	20	1.6	5.1	0.66	1.9	0.57	0.59 U
	01/26/11	DUP	3.6	0.21	0.2 U	0.2 U	0.3	0.24	0.5 J	0.16 U	0.32	1.3	0.22 U	1.6	0.72	2.6	0.046 U	20	1.5	4.9	0.66	1.8	0.57	0.64 U
	02/28/11	ORIG	2.4	0.18 U	0.18 U	0.18 U	0.38 J	0.14	0.4	0.15 U	0.25	1.2 U	0.2 U	1.6	0.7	2.4	0.043 U	28 J	1.1	3.2 J	0.44	1.2	0.42	0.6 U
	02/28/11	DUP	2.6	0.17 U	0.17 U	0.17 U	0.42 J	0.13 U	0.46	0.14 U	0.25	1.1 U	0.19 U	1.7	0.73	2.4	0.04 U	10 J	1.1	2.5 J	0.39	1.2	0.41	0.57 U
	03/30/11	ORIG	5.8	0.31	0.18 U	0.18 U	0.78 J	0.17	0.5	0.15 U	0.42	2	0.2 U	1.7	1.2	2.6	0.043 U	19	1.2	4	0.54	1.5	0.46 J	0.6 U
	04/29/11	ORIG	5.4	0.24	0.18 U	0.18 U	0.81	0.13 U	0.49	0.15 U	0.31	1.1 U	0.2 UJ	2.3	1.6	3	0.042 U	12	0.46	1.2	0.16	0.37	0.14 U	0.59 U
Second Floor, Office 16																								
	05/31/11	ORIG	3.8	0.19 U	0.2 U	0.2 U	0.52	0.18 J	0.55 J	0.16 U	1.5 J	1.2 U	0.22 U	1.4	1	2.7	0.046 U	15 J	1 J	3.2 J	0.43 J	1.2 J	0.42 J	0.64 U
	05/31/11	DUP	4.5	0.23	0.15 U	0.15 U	0.58	0.16 J	0.54 J	0.13 U	0.4 J	1.1	0.17 U	1.3	1	2.6	0.036 U	19 J	1.8 J	6.5 J	0.79 J	2.6 J	0.84 J	0.5 U

Table 1
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Indoor Air Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCE	1,2-DCA	CTC	CBN	CFM	MC	1,4-DCB	Freon 11	Freon 113	Freon 12	VC	Acetone	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	MTBE
	06/29/11	ORIG	3.6	0.2	0.16 U	0.16 U	0.42	0.14	0.52	0.14 U	0.21	1 U	0.18 UJ	1.3	0.81	2.4	0.038 U	22	0.59	2.1	0.37	1	0.36	0.53 U
	06/29/11	DUP	3.4	0.18	0.18 U	0.18 U	0.37	0.18	0.5	0.15 U	0.2	1.1 U	0.19 UJ	1.2	0.78	2.4	0.041 U	25	0.56	1.8	0.3	0.85	0.34	0.58 U
	07/27/11	ORIG	5.8	0.3	0.22 U	0.22 U	0.85	0.17 U	0.44	0.19 U	0.23	1.4 U	0.25 UJ	1.3 J	1	2.5	0.053 U	12	0.33	1	0.18	0.53	0.2	0.74 U
	07/27/11	DUP	5.9	0.3	0.2 U	0.2 U	0.88	0.21	0.5	0.16 U	0.23	1.2 U	0.22 UJ	1.4 J	1	2.5	0.046 U	12	0.31	1.1	0.19	0.54	0.21	0.64 U
	08/31/11	ORIG	6.2	0.31	0.21 U	0.21 U	0.91	0.18	0.63	0.18 U	0.28	1.3 U	0.23 UJ	2.1	1.3	3	0.049 U	17	0.5	1.5	0.21	0.55	0.2	0.69 U
	08/31/11	DUP	6.5	0.36	0.19 U	0.19 U	0.94	0.15	0.63	0.16 U	0.28	1.2 U	0.21 UJ	2.2	1.3	3	0.045 U	19	0.5	1.5	0.22	0.58	0.21	0.63 U
	09/27/11	ORIG	5.6	0.38	0.19 U	0.19 U	4.1	0.14	0.46	0.16 U	0.32	2	0.21 U	3.2	1.2	2.4	0.045 U	33	1.8	5.6	1.6	8	5	0.63 U
	10/28/11	ORIG	2.5	0.28	0.19 U	0.19 U	0.36	0.19	0.49	0.16 U	0.39	1.4	0.21 U	1.6	0.77	2.6	0.045 U	50	1.9	9.1 J	1.1 J	4 J	1.5 J	0.63 U
	10/28/11	DUP	2.5	0.22	0.2 U	0.2 U	0.37	0.18	0.5	0.17 U	0.36	1.3 U	0.22 U	1.4	0.79	2.6	0.047 U	46	1.8	6.5 J	0.89 J	3.2 J	1.2 J	0.66 U
	11/30/11	ORIG	4	0.39	0.19 U	0.19 U	0.54	0.18	0.48	0.16 U	0.36	1.6	0.21 UJ	1.5	1.2	2.4	0.045 U	41	2.4 J	8.1	1.3	4.2	1.5	0.63 U
	11/30/11	DUP	3.9	0.36	0.19 U	0.19 U	0.52	0.18	0.46	0.16 U	0.35	1.6	0.21 UJ	1.5	1.2	2.3	0.045 U	39	4.1 J	7.9	1.3	4.2	1.6	0.63 U
Second Floor, Office 17																								
	05/31/11	ORIG	3.8	0.19 U	0.19 U	0.19 U	0.53	0.14 UJ	0.46 J	0.16 U	0.28	1.2 U	0.21 U	1.3	1	2.7	0.045 U	15	1	3.2	0.42	1.2	0.43 J	0.63 U
	06/29/11	ORIG	3.6	0.19	0.18 U	0.18 U	0.4	0.14 U	0.54	0.15 U	0.22	1.2 U	0.2 UJ	1.3	0.83	2.4	0.043 U	19	0.54	1.7	0.29	0.87	0.32	0.6 U
	07/27/11	ORIG	6.8	0.36	0.16 U	0.16 U	1	0.12 U	0.52	0.14 U	0.26	1 U	0.18 UJ	1.4 J	1.2	2.5	0.038 U	15	0.3	1	0.18	0.52	0.18	0.54 U
	08/31/11	ORIG	6.1	0.35	0.2 U	0.2 U	0.92	0.15 U	0.59	0.17 U	0.28	1.3 U	0.22 UJ	2.1	1.2	3	0.048 U	17	0.51	1.5	0.21	0.55	0.2	0.67 U
	09/27/11	ORIG	5.6	0.39	0.19 U	0.19 U	4.1	0.14 U	0.44	0.16 U	0.32	2	0.21 U	3.2	1.2	2.4	0.045 U	32	1.7	5.5	1.6	7.9	4.9	0.63 U
	10/28/11	ORIG	2.5	0.23	0.2 U	0.2 U	0.37	0.15	0.53	0.17 U	0.41	1.3 U	0.22 U	1.5	0.81	2.6	0.047 U	50	1.9	6.9	1	3.8	1.4	0.66 U
	11/30/11	ORIG	4	0.37	0.19 U	0.19 U	0.54	0.18	0.48	0.16 U	0.36	1.6	0.21 UJ	1.5	1.2	2.4	0.045 U	39	2.4	8	1.2	4.1	1.5	0.63 U

Notes:

Concentrations are reported in micrograms per cubic meter (ug/m3)
Concentrations for EPA samples are reported in ug/m3, which were calculated from ppb (v/v) results and then rounded to the appropriate number of significant figures.
Only compounds detected in one or more air samples more than once are shown.
VOCs analyzed by EPA Method TO-15 SIM.

U = Not detected at a concentration greater than the reporting limit shown.
J = Detected at an estimated concentration between the laboratory reporting and method detection limits, or estimated result due to field or laboratory quality control issues
E = Estimated concentration - exceeds upper calibration range of instrument.
-- = Analyte not reported.

PCE = Tetrachloroethene; TCE = Trichloroethene; TCA = Trichloroethane; DCE = Dichloroethene; CTC = Carbon tetrachloride; CBN = Chlorobenzene; CFM = Chloroform; MC = Methylene chloride; DCB = Dichlorobenzene; Freon 11 = Trichlorofluoromethane; Freon 113 = 1,1,2-Trichloro-1,2,2-trifluoroethane; Freon 12 = Dichlorodifluoromethane; VC = Vinyl chloride; MTBE = Methyl tert-butyl ether.

Sample Type:
ORIG = Original sample
DUP = Duplicate sample
SPLIT = Split sample - analyzed by different laboratory than primary sample.
EPA = Sample collected by EPA

Table 2

Indoor Air Sampling Results - December 21, 2011

Terra Pave - 12511 E. Putnam Street

Samples TP1 through TP3 and TP1 Split (Air Technology Laboratories)

Omega Chemical Corporation Superfund Site, Whittier California

Chemical Name	Air Concentrations						Health Protective Screening Criteria			
	Indoor Building (ug/m^3)				Outdoor Air[3]		Long-Term Exposure [1]		Short Term Exposure [2]	
	minimum		maximum [4]		ug/m^3		ug/m^3	Key	ug/m^3	Key
1,1,1-Trichloroethane (1,1,1-TCA)	0.11	U	0.19	U	0.35	U	22,000	nc	3,800	nc
1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	0.14	U	0.24	U	0.44	U	0.21	ca	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.61		0.81		0.63		130,000	nc	--	--
1,1,2-Trichloroethane	0.11	U	0.19	U	0.35	U	0.77	ca	--	--
1,1-Dichloroethane	0.14	U	0.81	U	0.26	U	7.7	ca	--	--
1,1-Dichloroethene (1,1-DCE)	0.058		0.058		0.13	U	880	nc	79	nc
1,2-Dichlorobenzene	0.20	U	0.60	U	0.39	U	880	nc	--	--
1,2-Dichloroethane	0.082	J	0.22	J	0.47		0.47	ca	--	--
1,4-Dichlorobenzene	0.12		0.12		0.39	U	1.1	ca	1,200	nc
Acetone	19		290	E	410	E	140,000	nc	31,000	nc
Benzene	2.3		4.4		5.0		1.6	ca	19	nc
Carbon Tetrachloride	0.63		0.72		0.78		2.0	ca	190	nc
Chlorobenzene	0.092	U	0.16	U	0.30	U	220	nc	--	--
Chloroform	0.16		0.20		0.32	U	0.53	ca	240	nc
cis-1,2-Dichloroethene	0.079	U	0.14	U	0.26	U	--	--	--	--
Dichlorodifluoromethane (Freon 12)	2.6		2.9		2.6		880	nc	--	--
Ethylbenzene	1.8		27		36		4.9	ca	3,000	nc
m,p-Xylenes	6.4		110		160		3,100	nc	2,600	nc
Methyl tert-butyl ether	0.36	U	0.63	U	1.2	U	47	ca	2,500	nc
Methylene Chloride	0.83		0.83		2.2	U	26	ca	1,000	nc
o-Xylene	2.3		42		59		3,100	nc	2,600	nc
Tetrachloroethene (PCE)	0.46		1.3	J	0.43	J	2.1	ca	--	--
Toluene	8.3		24		29		22,000	nc	--	--
trans-1,2-Dichloroethene	0.40	U	0.70	U	1.3	U	260	nc	800	nc
trans-1,3-Dichloropropene	0.091	U	0.16	U	0.29	U	3.1	ca	36	nc
Trichloroethene (TCE)	0.12		0.12		0.35	U	6.1	ca	540	nc
Trichlorofluoromethane (Freon 11)	1.3	J	1.6	J	1.4		3,100	nc	--	--
Vinyl chloride	0.026	U	0.045	U	0.083	U	2.8	ca	77	nc

ug/m^3 = micrograms per cubic meter of air
-- = value not available
U = Chemical not detected. Lab detection limit for chemical is listed.
E = Chemical detected at levels above the calibration range. Quantitatively estimated
J = Quantitatively estimated
Bold value = measured value exceeds 3 times the outdoor air conc and either the Long-Term or Short-Term Protective Screening criteria.
nc = noncancer
ca = cancer

Notes on Health Protective Screening Criteria:

[1] **Long-Term Exposure Criteria:** These air concentration values correspond to a 1 in one-million lifetime cancer risk (indicated by "ca") for suspected cancer-causing substances (i.e., carcinogens). For chemicals that are not carcinogens, the air concentration values are protective of noncancer effects, (indicated by "nc") using standard U.S. Environmental Protection Agency (EPA) exposure assumptions for commercial use. (http://www.epa.gov/region09/superfund/prg/index.html [May 2010]. Exceeding these EPA Industrial Air Regional Screening Levels (RSL) suggests that further evaluation is necessary but does not necessarily mean that a problem exists.

[2] **Short Term Exposure Criteria:** These values represent health protective air exposure concentrations for short-term exposures, developed by the Agency for Toxic Substances and Disease Registry (ATSDR) as Intermediate Minimal Risk Levels (MRLs) using residential exposure assumptions for periods of more than 14 but less than 365 days. (http://www.atsdr.cdc.gov/mrls/) [December 2009]. Exceeding these ATSDR MRLs suggests that further evaluation is necessary but does not necessarily mean that a problem exists. Further note that the MRL values assume continuous (24 hours per day, 7 days per week) exposure and have not been adjusted for occupational exposures (8 hours per day, 5 days per week).

- Risk Value calculated by dividing measured indoor air concentrations by long-term health protective screening criteria. If chemical is designated as cancer (ca), risk value is multiplied by 1e-6

Sources:

[3] Ambient Air Sample AA1

[4] Maximum detected concentration.

Table 3
Indoor Air Sampling Results - December 21, 2011
Bishop - 12519 E. Putnam Street
Samples B1 through B3 (and B1 Duplicate)
Omega Chemical Corporation Superfund Site, Whittier California

Chemical Name	Air Concentrations						Health Protective Screening Criteria			
	Indoor Building (ug/m^3)				Outdoor Air[3]		Long-Term Exposure [1]		Short Term Exposure [2]	
	minimum		maximum [4]		ug/m^3		ug/m^3	Key	ug/m^3	Key
1,1,1-Trichloroethane (1,1,1-TCA)	0.18	U	0.19	U	0.35	U	22,000	nc	3,800	nc
1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	0.23	U	0.24	U	0.44	U	0.21	ca	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.70		0.98		0.63		130,000	nc	--	--
1,1,2-Trichloroethane	0.18	U	0.19	U	0.35	U	0.77	ca	--	--
1,1-Dichloroethane	0.14	U	0.14	U	0.26	U	7.7	ca	--	--
1,1-Dichloroethene (1,1-DCE)	0.067	U	0.069	U	0.13	U	880	nc	79	nc
1,2-Dichlorobenzene	0.20	U	0.21	U	0.39	U	880	nc	--	--
1,2-Dichloroethane	0.24		0.27		0.47		0.47	ca	--	--
1,4-Dichlorobenzene	0.20	U	0.21	U	0.39	U	1.1	ca	1,200	nc
Acetone	19		37		410	E	140,000	nc	31,000	nc
Benzene	2.6		2.8		5.0		1.6	ca	19	nc
Carbon Tetrachloride	0.62		0.90		0.78		2.0	ca	190	nc
Chlorobenzene	0.16	U	0.16	U	0.30	U	220	nc	--	--
Chloroform	0.16	J	0.21		0.32	U	0.53	ca	240	nc
cis-1,2-Dichloroethene	0.13	U	0.14	U	0.26	U	--	--	--	--
Dichlorodifluoromethane (Freon 12)	2.8		2.9		2.6		880	nc	--	--
Ethylbenzene	1.1		1.5		36		4.9	ca	3,000	nc
m,p-Xylenes	3.6		4.8		160		3,100	nc	2,600	nc
Methyl tert-butyl ether	0.61	U	0.63	U	1.2	U	47	ca	2,500	nc
Methylene Chloride	1.2	U	1.2	U	2.2	U	26	ca	1,000	nc
o-Xylene	1.2		1.5		59		3,100	nc	2,600	nc
Tetrachloroethene (PCE)	0.45		0.65		0.43	J	2.1	ca	--	--
Toluene	7.6		8.4		29		22,000	nc	--	--
trans-1,2-Dichloroethene	0.67	U	0.69	U	1.3	U	260	nc	800	nc
trans-1,3-Dichloropropene	0.15	U	0.16	U	0.29	U	3.1	ca	36	nc
Trichloroethene (TCE)	0.18	U	0.19		0.35	U	6.1	ca	540	nc
Trichlorofluoromethane (Freon 11)	1.4		1.4		1.4		3,100	nc	--	--
Vinyl chloride	0.043	U	0.045	U	0.083	U	2.8	ca	77	nc

ug/m^3 = micrograms per cubic meter of air
-- = value not available
U = Chemical not detected. Lab detection limit for chemical is listed.
J = Quantitatively estimated
Bold value = measured value exceeds 3 times the outdoor air conc and either the Long-Term or Short-Term Protective Screening criteria.
nc = noncancer
ca = cancer

Notes on Health Protective Screening Criteria :

[1] **Long-Term Exposure Criteria:** These air concentration values correspond to a 1 in one-million lifetime cancer risk (indicated by "ca") for suspected cancer-causing substances (i.e., carcinogens). For chemicals that are not carcinogens, the air concentration values are protective of noncancer effects, (indicated by "nc") using standard U.S. Environmental Protection Agency (EPA) exposure assumptions for commercial use. (http://www.epa.gov/region09/superfund/prg/index.html [May 2010]. Exceeding these EPA Industrial Air Regional Screening Levels (RSL) suggests that further evaluation is necessary but does not necessarily mean that a problem exists.

[2] **Short Term Exposure Criteria:** These values represent health protective air exposure concentrations for short-term exposures, developed by the Agency for Toxic Substances and Disease Registry (ATSDR) as Intermediate Minimal Risk Levels (MRLs) using residential exposure assumptions for periods of more than 14 but less than 365 days. (http://www.atsdr.cdc.gov/mrls/) [December 2009]. Exceeding these ATSDR MRLs suggests that further evaluation is necessary but does not necessarily mean that a problem exists. Further note that the MRL values assume continuous (24 hours per day, 7 days per week) exposure and have not been adjusted for occupational exposures (8 hours per day, 5 days per week).

- Risk Value calculated by dividing measured indoor air concentrations by long-term health protective screening criteria. If chemical is designated as cancer (ca), risk value is multiplied by 1e-6

Sources:
[3] Ambient Air Sample AA1
[4] Maximum detected concentration.

Table 4
Indoor Air Sampling Results - December 21, 2011

Regional Occupational Program (ROP) - 12519 East Washington Blvd.
Samples ROP1 through ROP5 and ROP1 Split (Air Technology Laboratories)
Omega Chemical Corporation Superfund Site, Whittier California

Chemical Name	Air Concentrations						Health Protective Screening Criteria			
	Indoor Building (ug/m^3)				Outdoor Air[3]		Long-Term Exposure [1]		Short Term Exposure [2]	
	minimum		maximum [4]		ug/m^3		ug/m^3	Key	ug/m^3	Key
1,1,1-Trichloroethane (1,1,1-TCA)	0.11	U	0.19	U	0.22	U	22,000	nc	3,800	nc
1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	0.14	U	0.24	U	0.27	U	0.21	ca	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.62		0.89		0.66		130,000	nc	--	--
1,1,2-Trichloroethane	0.11	U	0.19	U	0.22	U	0.77	ca	--	--
1,1-Dichloroethane	0.14	U	0.81	U	1.6	U	7.7	ca	--	--
1,1-Dichloroethene (1,1-DCE)	0.10		0.16		0.079		880	nc	79	nc
1,2-Dichlorobenzene	0.20	U	0.60	U	1.2	U	880	nc	--	--
1,2-Dichloroethane	0.094	J	0.24		0.21		0.47	ca	--	--
1,4-Dichlorobenzene	0.12	U	0.21	U	0.24	U	1.1	ca	1,200	nc
Acetone	18		99	E	30	J	140,000	nc	31,000	nc
Benzene	2.6		3.0		2.8	J	1.6	ca	19	nc
Carbon Tetrachloride	0.62	J	0.92		0.84	J	2.0	ca	190	nc
Chlorobenzene	0.092	U	0.16	U	0.18	U	220	nc	--	--
Chloroform	0.18		0.36		0.43	J	0.53	ca	240	nc
cis-1,2-Dichloroethene	0.079	U	0.14	U	0.16	U	--	--	--	--
Dichlorodifluoromethane (Freon 12)	2.6		2.9		2.8		880	nc	--	--
Ethylbenzene	1.2		1.8	J	1.3		4.9	ca	3,000	nc
m,p-Xylenes	4.0		5.9		4.4	J	3,100	nc	2,600	nc
Methyl tert-butyl ether	0.36	U	0.63	U	0.72	U	47	ca	2,500	nc
Methylene Chloride	1.2	U	8.5		1.4	U	26	ca	1,000	nc
o-Xylene	1.4		2.3	J	1.5		3,100	nc	2,600	nc
Tetrachloroethene (PCE)	0.98		1.3		0.71		2.1	ca	--	--
Toluene	7.6		10		8.0	J	22,000	nc	--	--
trans-1,2-Dichloroethene	0.40	U	0.70	U	0.79	U	260	nc	800	nc
trans-1,3-Dichloropropene	0.091	U	0.16	U	0.18	U	3.1	ca	36	nc
Trichloroethene (TCE)	0.15		0.15		0.18		6.1	ca	540	nc
Trichlorofluoromethane (Freon 11)	1.3		1.6		1.5		3,100	nc	--	--
Vinyl chloride	0.026	U	0.045	U	0.051	U	2.8	ca	77	nc

ug/m^3 = micrograms per cubic meter of air
-- = value not available
U = Chemical not detected. Lab detection limit for chemical is listed.
E = Chemical detected at levels above the calibration range. Quantitatively estimated.
J = Quantitatively estimated
Bold value = measured value exceeds 3 times the outdoor air conc and either the Long-Term or Short-Term Protective Screening criteria
nc = noncancer
ca = cancer

Notes on Health Protective Screening Criteria:

[1] **Long-Term Exposure Criteria:** These air concentration values correspond to a 1 in one-million lifetime cancer risk (indicated by "ca") for suspected cancer-causing substances (i.e., carcinogens). For chemicals that are not carcinogens, the air concentration values are protective of noncancer effects, (indicated by "nc") using standard U.S. Environmental Protection Agency (EPA) exposure assumptions for commercial use. (http://www.epa.gov/region09/superfund/prg/index.html [May 2010]. Exceeding these EPA Industrial Air Regional Screening Levels (RSL) suggests that further evaluation is necessary but does not necessarily mean that a problem exists.

[2] **Short Term Exposure Criteria:** These values represent health protective air exposure concentrations for short-term exposures, developed by the Agency for Toxic Substances and Disease Registry (ATSDR) as Intermediate Minimal Risk Levels (MRLs) using residential exposure assumptions for periods of more than 14 but less than 365 days. (http://www.atsdr.cdc.gov/mrls/) [December 2009]. Exceeding these ATSDR MRLs suggests that further evaluation is necessary but does not necessarily mean that a problem exists. Further note that the MRL values assume continuous (24 hours per day, 7 days per week) exposure and have not been adjusted for occupational exposures (8 hours per day, 5 days per week).

- Risk Value calculated by dividing measured indoor air concentrations by long-term health protective screening criteria. If chemical is designated as cancer (ca), risk value is multiplied by 1e-6

Sources:
[3] Maximum concentration detected at Ambient Air Sample AA8 or its split sample
[4] Maximum detected concentration.

Table 5
Indoor Air Sampling Results - December 21, 2011
Fred R. Rippy - 12471 E. Washington Blvd.
FRR1 through FRR3 (and FRR1 Duplicate)
Omega Chemical Corporation Superfund Site, Whittier California

Chemical Name	Air Concentrations						Health Protective Screening Criteria			
	Indoor Building (ug/m^3)				Outdoor Air[3]		Long-Term Exposure [1]		Short Term Exposure [2]	
	minimum		maximum [4]		ug/m^3		ug/m^3	Key	ug/m^3	Key
1,1,1-Trichloroethane (1,1,1-TCA)	0.18	U	0.18	U	0.22	U	22,000	nc	3,800	nc
1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	0.22	U	0.23	U	0.27	U	0.21	ca	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2.2		6.9		0.66		130,000	nc	--	--
1,1,2-Trichloroethane	0.18	U	0.18	U	0.22	U	0.77	ca	--	--
1,1-Dichloroethane	0.13	U	0.14	U	1.6	U	7.7	ca	--	--
1,1-Dichloroethene (1,1-DCE)	3.8		18		0.079		880	nc	79	nc
1,2-Dichlorobenzene	0.19	U	0.20	U	1.2	U	880	nc	--	--
1,2-Dichloroethane	0.22		0.42		0.21		0.47	ca	--	--
1,4-Dichlorobenzene	0.19	U	**5.5**	**J**	0.24	U	1.1	ca	1,200	nc
Acetone	27		37		30	J	140,000	nc	31,000	nc
Benzene	2.5		3.6		2.8	J	1.6	ca	19	nc
Carbon Tetrachloride	0.72		0.87		0.84	J	2.0	ca	190	nc
Chlorobenzene	0.15	U	0.16	U	0.18	U	220	nc	--	--
Chloroform	0.30		0.48		0.43	J	0.53	ca	240	nc
cis-1,2-Dichloroethene	0.13	U	0.13	U	0.16	U	--	--	--	--
Dichlorodifluoromethane (Freon 12)	2.6		2.8		2.8		880	nc	--	--
Ethylbenzene	0.14	U	1.8		1.3		4.9	ca	3,000	nc
m,p-Xylenes	0.28	U	6.2		4.4	J	3,100	nc	2,600	nc
Methyl tert-butyl ether	0.58	U	0.61	U	0.72	U	47	ca	2,500	nc
Methylene Chloride	1.1	U	1.4		1.4	U	26	ca	1,000	nc
o-Xylene	0.14	U	2.1		1.5		3,100	nc	2,600	nc
Tetrachloroethene (PCE)	**11**		**35**		0.71		2.1	ca	--	--
Toluene	3.6		13		8.0	J	22,000	nc	--	--
trans-1,2-Dichloroethene	0.64	U	0.67	U	0.79	U	260	nc	800	nc
trans-1,3-Dichloropropene	0.15	U	0.15	U	0.18	U	3.1	ca	36	nc
Trichloroethene (TCE)	1.1		2.8		0.18		6.1	ca	540	nc
Trichlorofluoromethane (Freon 11)	2.0		3.6		1.5		3,100	nc	--	--
Vinyl chloride	0.041	U	0.043	U	0.051	U	2.8	ca	77	nc

ug/m^3 = micrograms per cubic meter of air
-- = value not available
U = Chemical not detected. Lab detection limit for chemical is listed
J = Quantitatively estimated
Bold value = measured value exceeds 3 times the outdoor air conc and either the Long-Term or Short-Term Protective Screening criteria.
nc = noncancer
ca = cancer

Notes on Health Protective Screening Criteria:

[1] **Long-Term Exposure Criteria:** These air concentration values correspond to a 1 in one-million lifetime cancer risk (indicated by "ca") for suspected cancer-causing substances (i.e., carcinogens). For chemicals that are not carcinogens, the air concentration values are protective of noncancer effects, (indicated by "nc") using standard U.S. Environmental Protection Agency (EPA) exposure assumptions for commercial use. (http://www.epa.gov/region09/superfund/prg/index.html [May 2010]. Exceeding these EPA Industrial Air Regional Screening Levels (RSL) suggests that further evaluation is necessary but does not necessarily mean that a problem exists.

[2] **Short Term Exposure Criteria:** These values represent health protective air exposure concentrations for short-term exposures, developed by the Agency for Toxic Substance and Disease Registry (ATSDR) as Intermediate Minimal Risk Levels (MRLs) using residential exposure assumptions for periods of more than 14 but less than 365 days. (http://www.atsdr.cdc.gov/mrls/) [December 2009]. Exceeding these ATSDR MRLs suggests that further evaluation is necessary but does not necessarily mean that a problem exists. Further note that the MRL values assume continuous (24 hours per day, 7 days per week) exposure and have not been adjusted for occupational exposures (8 hours per day, 5 days per week).

- Risk Value calculated by dividing measured indoor air concentrations by long-term health protective screening criteria. If chemical is designated as cancer (ca), risk value multiplied by 1e-6

Sources:

[3] Maximum concentration detected at Ambient Air Sample AA8 or its split sampl

[4] Maximum detected concentration.

Table 6
Interim SVE System and Sub-Surface Depressurization System - Data Quality Assessment Table
Omega Chemical Superfund Site

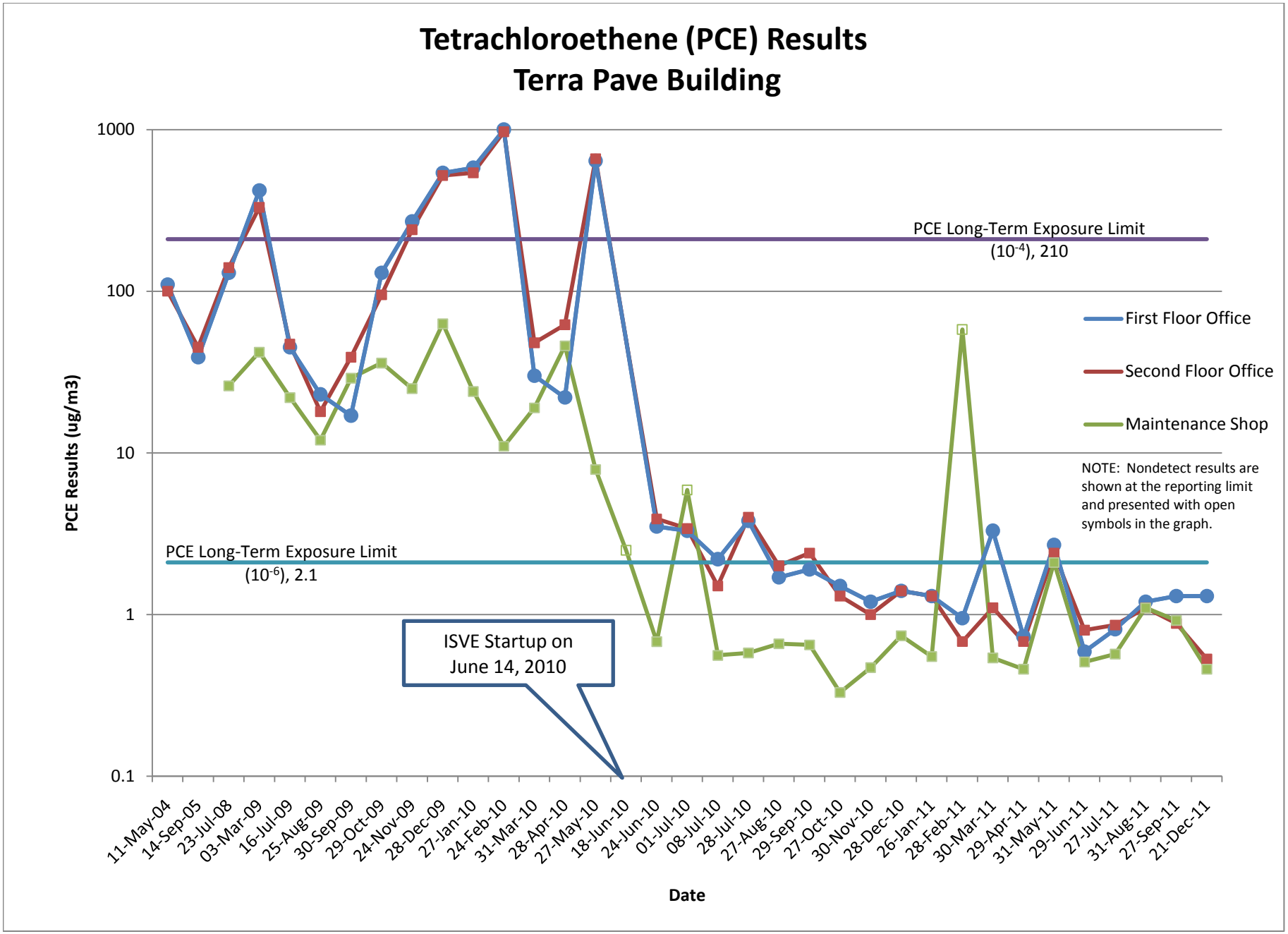
Sampling Event	Sampling Rationale	Frequency of Analysis	Matrix	Lab WO#	Sampling Date	Field Quality Control Samples	Level 4 validation	Review of Laboratory Quality Control Samples	Data Usability
Vapor Extraction Wells (VEW) and Vapor Monitoring Probe (VMP)									
	VEWs and VMPs are sampled to evaluate the performance of the treatment system	VEWs: Monthly during first six months, Quarterly thereafter VMPs: Quarterly	Air	C101005 (VEWs)	10-Oct-11	Equipment and trip blanks are not needed. Field duplicates are not collected for VEW monthly sampling	No	MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, surrogates, and LCS/LCSD criteria were all met.
				C110702 (VEWs)	7-Nov-11		Yes	See validation memo	The bromomethane and isopropanol results in samples analyzed on November 18, 2011 and the bromomethane, bromoform, and isopropanol results in samples analyzed on November 19, 2011 were qualified as estimated due to calibration nonconformances.
				C122106 (VEWs)	19-Dec-11		No	MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, and LCS/LCSD criteria were all met, except for the %RSD for bromomethane in the initial calibration. Therefore, the bromomethane results are qualified as estimated.
				C122107 (VMPs)	20-Dec-11		No	MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, and LCS/LCSD criteria were all met, except for the %RSD for carbon tetrachloride results in the initial calibration for samples VE-2S, VE-2M, VE-3S, VE-3M, VE-4S, VE-4M, VE-7S, VMP-1, VMP-2, VMP-3, and VMP-6 and the %RSD for bromomethane in the initial calibration for all other samples. Field duplicates were collected and evaluated for field duplicate precision. The m,p-xylene results in field duplicate pair VE-1M; and the 1,1-DCE, Freon 113, 1,1-DCA, 1,1,1-TCA, TCE, PCE, and toluene results in VMP-6 are qualified as estimated due to field duplicate imprecision. Additionally the PCE results in the field duplicate pair VE-5M was also estimated based on professional judgment due to difference in the detected and nondetected result of the two samples.
Interim Soil Vapor Extraction (ISVE) PROCESS SAMPLING									
	Analysis of the VGAC influent, intermediate and effluent samples to assess the performance of the treatment equipment and for SCAQMD compliance	Monthly (or more frequently if needed)	Air	C101004	10-Oct-11	Equipment and trip blanks are not needed. Field duplicates are not needed for this treatment assessment sampling.	No	MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, surrogates, and LCS/LCSD criteria were all met.
				C110703	7-Nov-11			MB, LCS/LCSD, surrogates, calibration and tuning summaries	
				C122105	19-Dec-11			MB, LCS/LCSD, surrogates, calibration and tuning summaries	

Table 6
Interim SVE System and Sub-Surface Depressurization System - Data Quality Assessment Table
Omega Chemical Superfund Site

Sampling Event	Sampling Rationale	Frequency of Analysis	Matrix	Lab WO#	Sampling Date	Field Quality Control Samples	Level 4 validation	Review of Laboratory Quality Control Samples	Data Usability
Sub-Slab Depressurization Sampling									
	Analysis of the VGAC influent and effluent samples to assess the performance of the treatment equipment and for SCAQMD compliance	Monthly	Air	C101107	11-Oct-11	Equipment and trip blanks are not needed. Field duplicates are not needed for this treatment assessment sampling.	No	MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, surrogates, and LCS/LCSD criteria were all met.
				C110803	8-Oct-11			MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, surrogates, and LCS/LCSD criteria were all met.
				C121507	14-Dec-11			MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, surrogates, and LCS/LCSD criteria were all met, except for the %RSD for carbon tetrachloride result in the initial calibration. Therefore, the carbon tetrachloride results are qualified as estimated.
	Analysis of the sub-slab monitoring points	As needed	Air	C101108 (B-8 and B-17)	11-Oct-11	Equipment and trip blanks are not needed. Field duplicates were not collected	No	MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, surrogates, and LCS/LCSD criteria were all met, except for the surrogate 1,2-dichloroethane-d4, which recovered slightly above the limit of 130% at 131% in sample OC_SSD_B-17_101111. Since the other two surrogates were within limits and the %R was only slightly above the limit, no
				C110802 (B-8 and B-17)	8-Nov-11			MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, surrogates, and LCS/LCSD criteria were all met, except for the %RSD for bromomethane in the initial calibration and the continuing calibration. Therefore, the bromomethane results are qualified as estimated.
				C121505 (B-1 to B-18)	14-Dec-11			MB, LCS/LCSD, surrogates, calibration and tuning summaries	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, tuning, calibration, surrogate, and LCS/LCSD criteria were all met, except for the %RSD for acetone, carbon tetrachloride and t-1,3-dichloropropene in the initial calibration. Therefore, the acetone, carbon tetrachloride and t-1,3-dichloropropene results are qualified as estimated.

If analytes were detected in the method blank below reporting limits, no action was taken and the data were determined to be usable.
For field duplicate criteria, a duplicate precision criterion of 25 percent was used. If the results were detected at concentrations less than 5x the reporting limit, then the difference between the two results was evaluated against the criteria of ± the reporting limit. Results were deemed within criteria if the difference was less than the reporting limit.
The data were reviewed by Elizabeth Fortuna and Barbara Wells

Attachment C: Graphs of TCE and PCE Concentrations


Tetrachloroethene (PCE) Results
Terra Pave Building
PCE Results (ug/m3)
1000
100
10
1
0.1
PCE Long-Term Exposure Limit
(10-4), 210
PCE Long-Term Exposure Limit
(10-6), 2.1
First Floor Office
Second Floor Office
Maintenance Shop
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.
ISVE Startup on June 14, 2010
11-May-04
14-Sep-05
23-Jul-08
03-Mar-09
16-Jul-09
25-Aug-09
30-Sep-09
29-Oct-09
24-Nov-09
28-Dec-09
27-Jan-10
24-Feb-10
31-Mar-10
28-Apr-10
27-May-10
18-Jun-10
24-Jun-10
01-Jul-10
08-Jul-10
28-Jul-10
27-Aug-10
29-Sep-10
27-Oct-10
30-Nov-10
28-Dec-10
26-Jan-11
28-Feb-11
30-Mar-11
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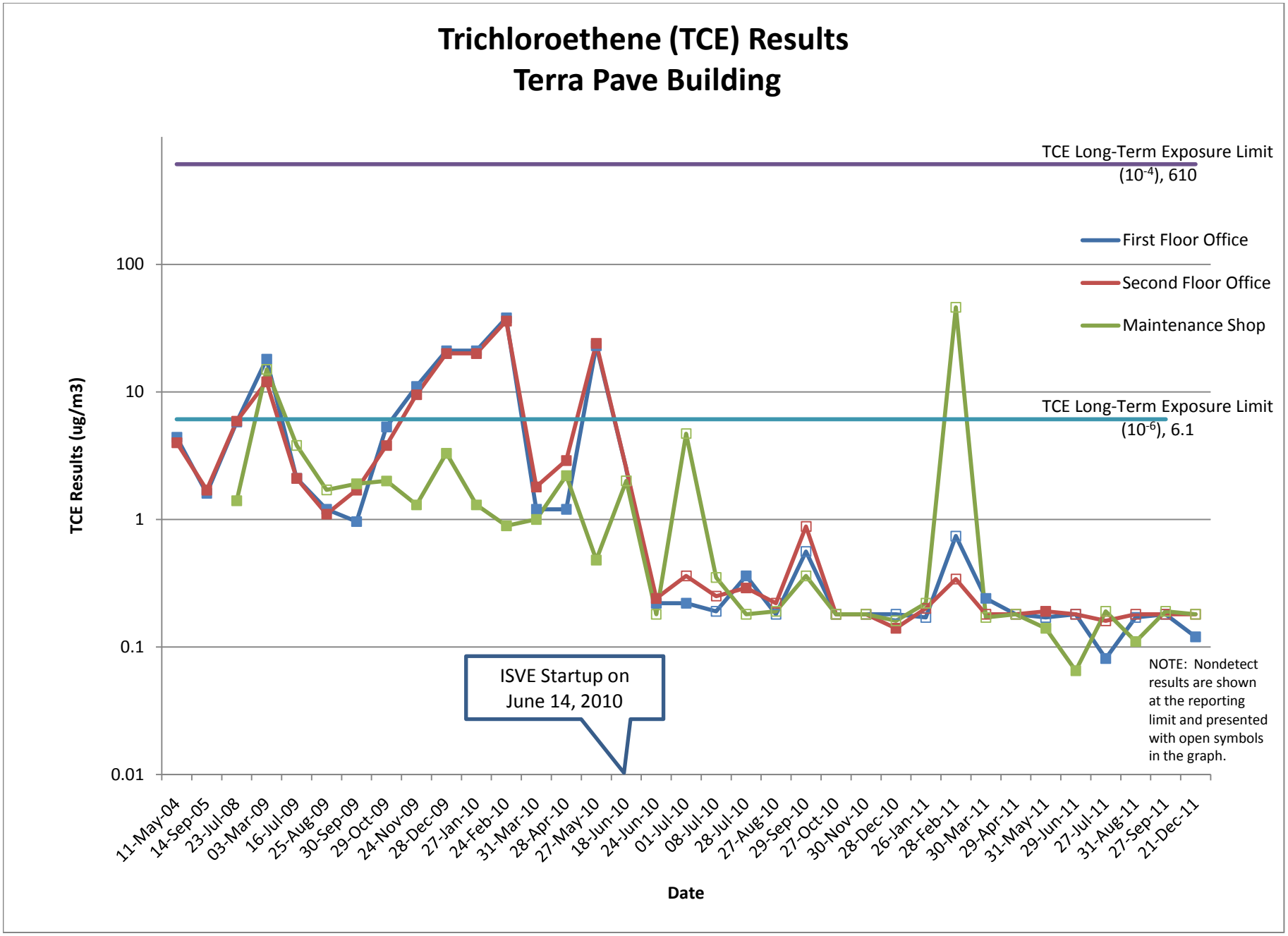
31-May-11
29-Jun-11
27-Jul-11
31-Aug-11
27-Sep-11
21-Dec-11
Date


Trichloroethene (TCE) Results
Terra Pave Building
TCE Long-Term Exposure Limit
(10-4), 610
First Floor Office
Second Floor Office
Maintenance Shop
TCE Long-Term Exposure Limit
(10-6), 6.1
TCE Results (ug/m3)
100
10
1
0.1
0.01
ISVE Startup on
June 14, 2010
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.
11-May-04
14-Sep-05
23-Jul-08
03-Mar-09
16-Jul-09
25-Aug-09
30-Sep-09
29-Oct-09
24-Nov-09
28-Dec-09
27-Jan-10
24-Feb-10
31-Mar-10
28-Apr-10
27-May-10
18-Jun-10
24-Jun-10
01-Jul-10
08-Jul-10
28-Jul-10
27-Aug-10
29-Sep-10
27-Oct-10
30-Nov-10
28-Dec-10
26-Jan-11
28-Feb-11
30-Mar-11
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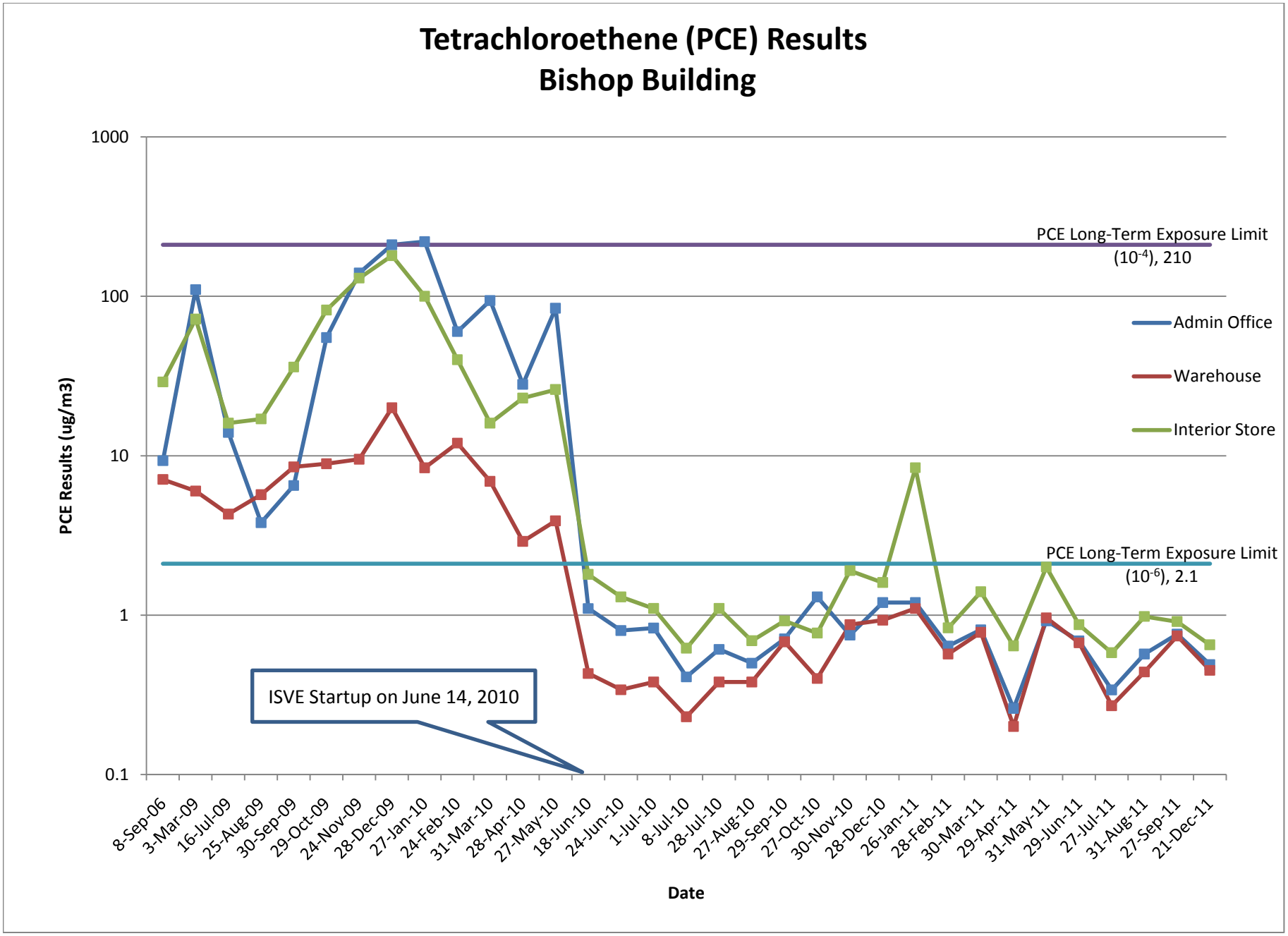
31-Aug-11
27-Sep-11
21-Dec-11
Date


Tetrachloroethene (PCE) Results
Bishop Building
PCE Results (ug/m3)
1000
100
10
1
0.1
PCE Long-Term Exposure Limit
(10-4), 210
PCE Long-Term Exposure Limit
(10-6), 2.1
Admin Office
Warehouse
Interior Store
ISVE Startup on June 14, 2010
8-Sep-06
3-Mar-09
16-Jul-09
25-Aug-09
30-Sep-09
29-Oct-09
24-Nov-09
28-Dec-09
27-Jan-10
24-Feb-10
31-Mar-10
28-Apr-10
27-May-10
18-Jun-10
24-Jun-10
1-Jul-10
8-Jul-10
28-Jul-10
27-Aug-10
29-Sep-10
27-Oct-10
30-Nov-10
28-Dec-10
26-Jan-11
28-Feb-11
30-Mar-11
29-Apr-11
31-May-11
29-Jun-11
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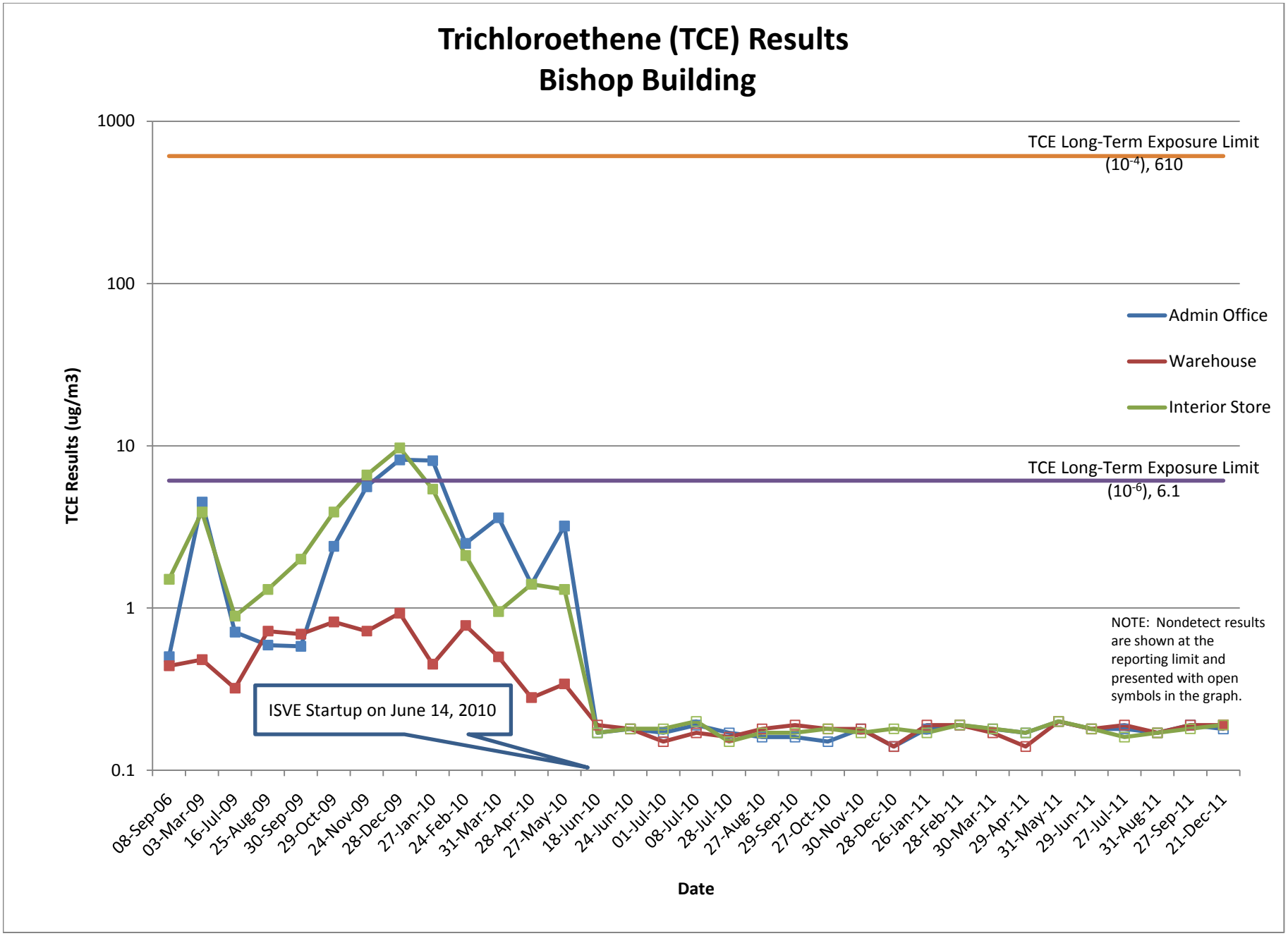
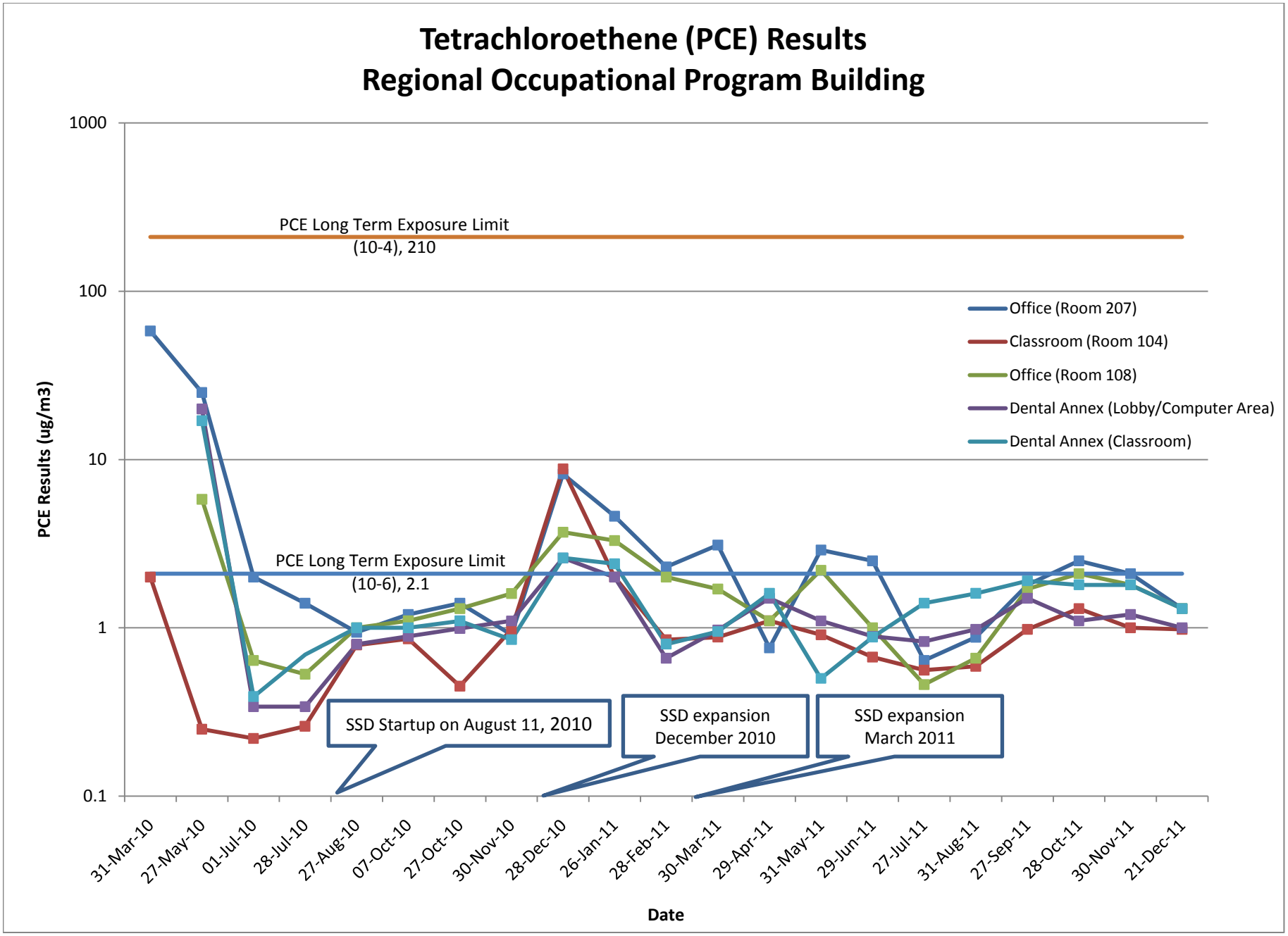
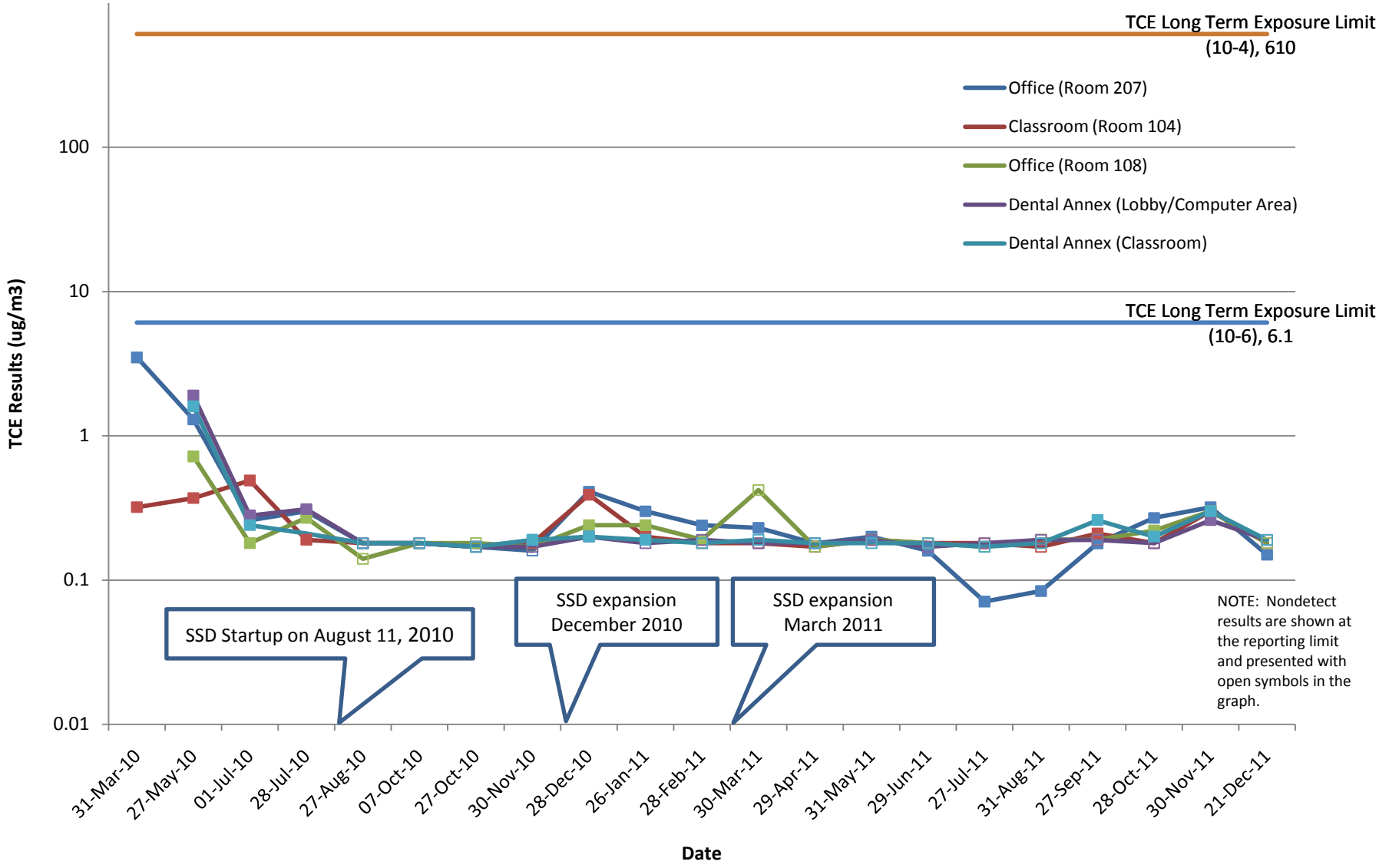
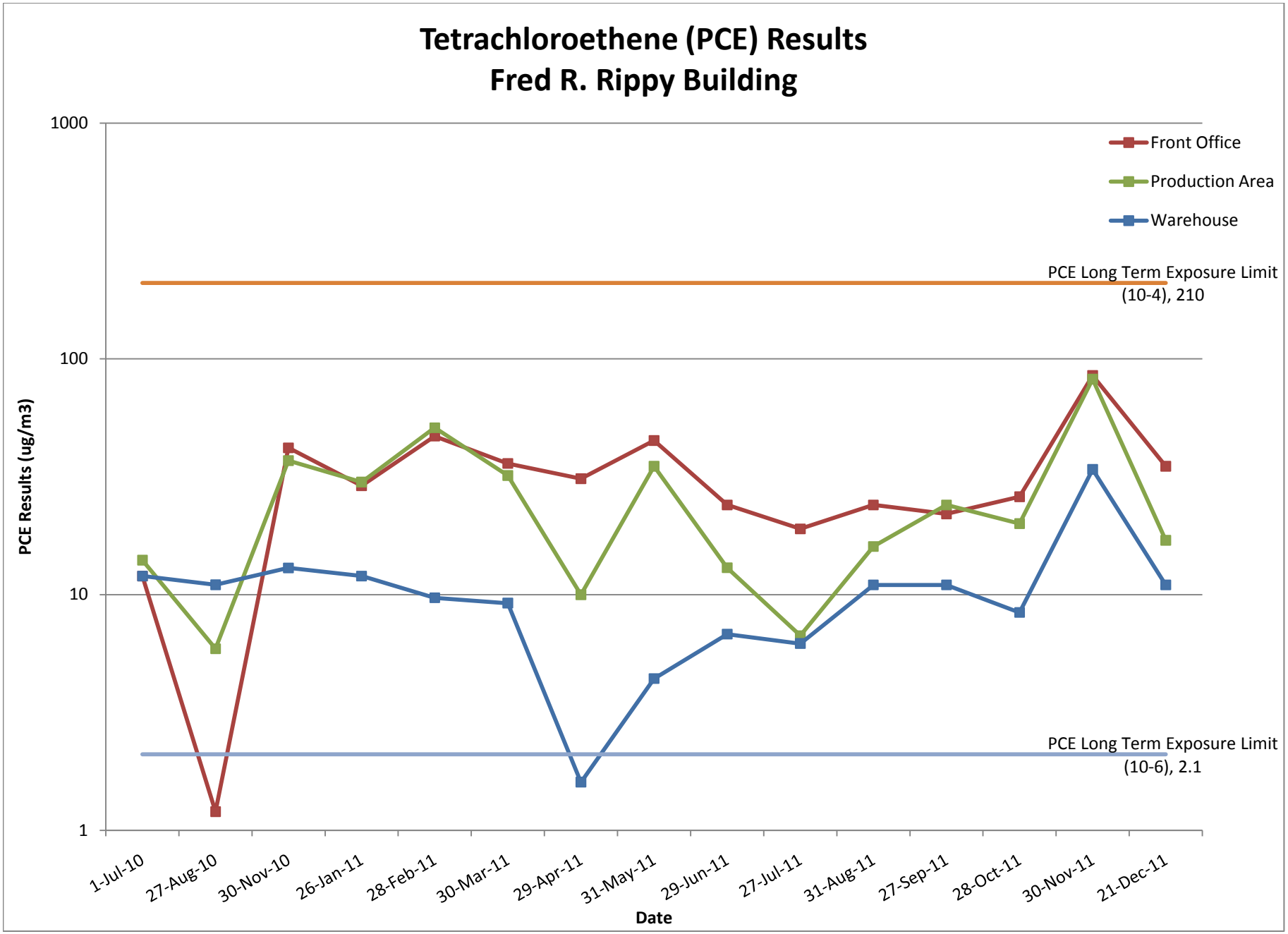
27-Sep-11
21-Dec-11
Date

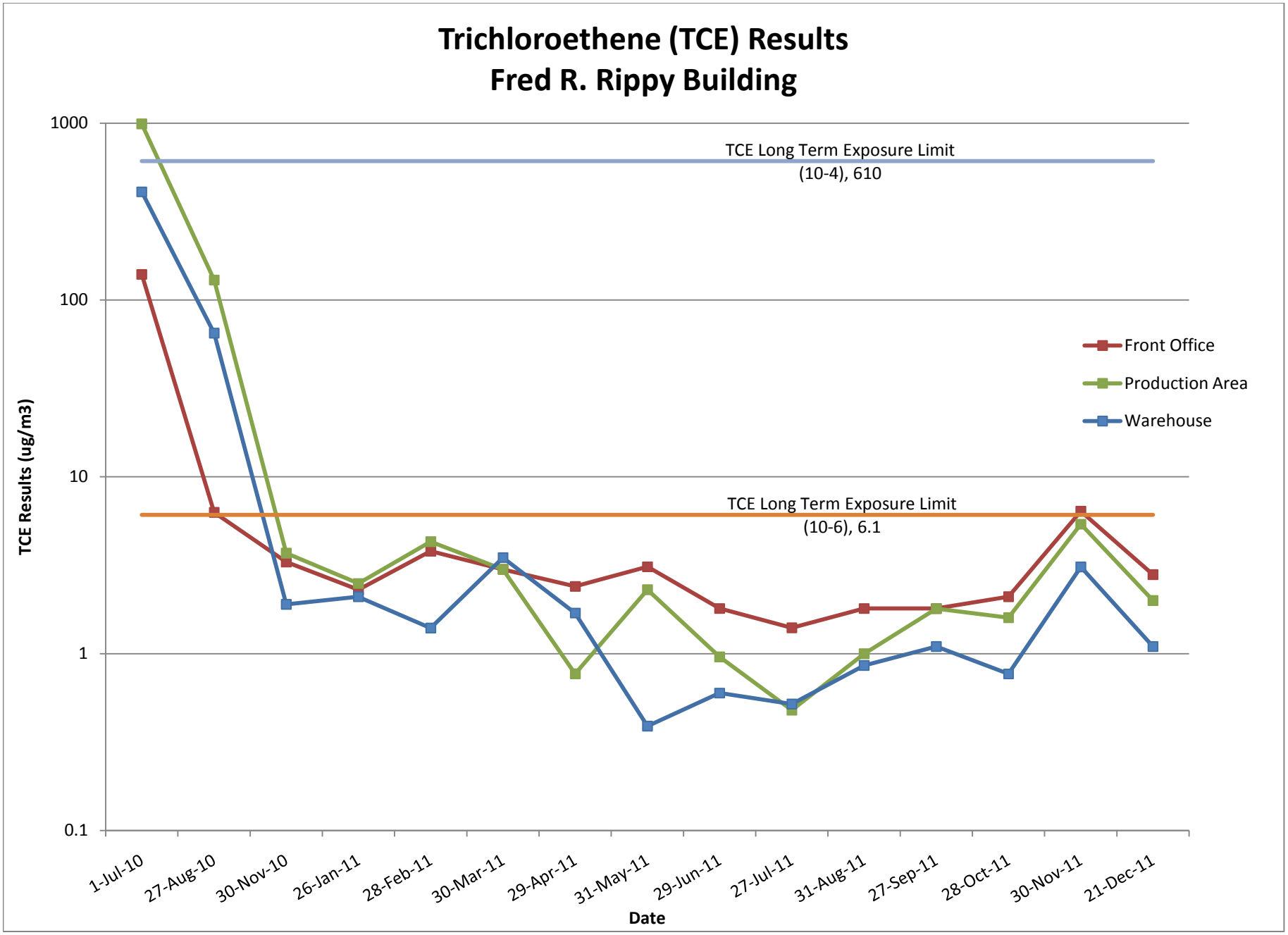

Trichloroethene (TCE) Results
Bishop Building
TCE Results (ug/m3)
1000
100
10
1
0.1
TCE Long-Term Exposure Limit
(10-4), 610
TCE Long-Term Exposure Limit
(10-6), 6.1
Admin Office
Warehouse
Interior Store
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.
ISVE Startup on June 14, 2010
08-Sep-06
03-Mar-09
16-Jul-09
25-Aug-09
30-Sep-09
29-Oct-09
24-Nov-09
28-Dec-09
27-Jan-10
24-Feb-10
31-Mar-10
28-Apr-10
27-May-10
18-Jun-10
24-Jun-10
01-Jul-10
08-Jul-10
28-Jul-10
27-Aug-10
29-Sep-10
27-Oct-10
30-Nov-10
28-Dec-10
26-Jan-11
28-Feb-11
30-Mar-11
29-Apr-11
31-May-11
29-Jun-11
27-Jul-11
31-Aug-11
27-Sep-11
21-Dec-11
Date


Tetrachloroethene (PCE) Results
Regional Occupational Program Building
PCE Results (ug/m3)
1000
100
10
1
0.1
PCE Long Term Exposure Limit
(10-4), 210
PCE Long Term Exposure Limit
(10-6), 2.1
Office (Room 207)
Classroom (Room 104)
Office (Room 108)
Dental Annex (Lobby/Computer Area)
Dental Annex (Classroom)
SSD Startup on August 11, 2010
SSD expansion
December 2010
SSD expansion
March 2011
31-Mar-10
27-May-10
01-Jul-10
28-Jul-10
27-Aug-10
07-Oct-10
27-Oct-10
30-Nov-10
28-Dec-10
26-Jan-11
28-Feb-11
30-Mar-11
29-Apr-11
31-May-11
29-Jun-11
27-Jul-11
31-Aug-11
27-Sep-11
28-Oct-11
30-Nov-11
21-Dec-11
Date

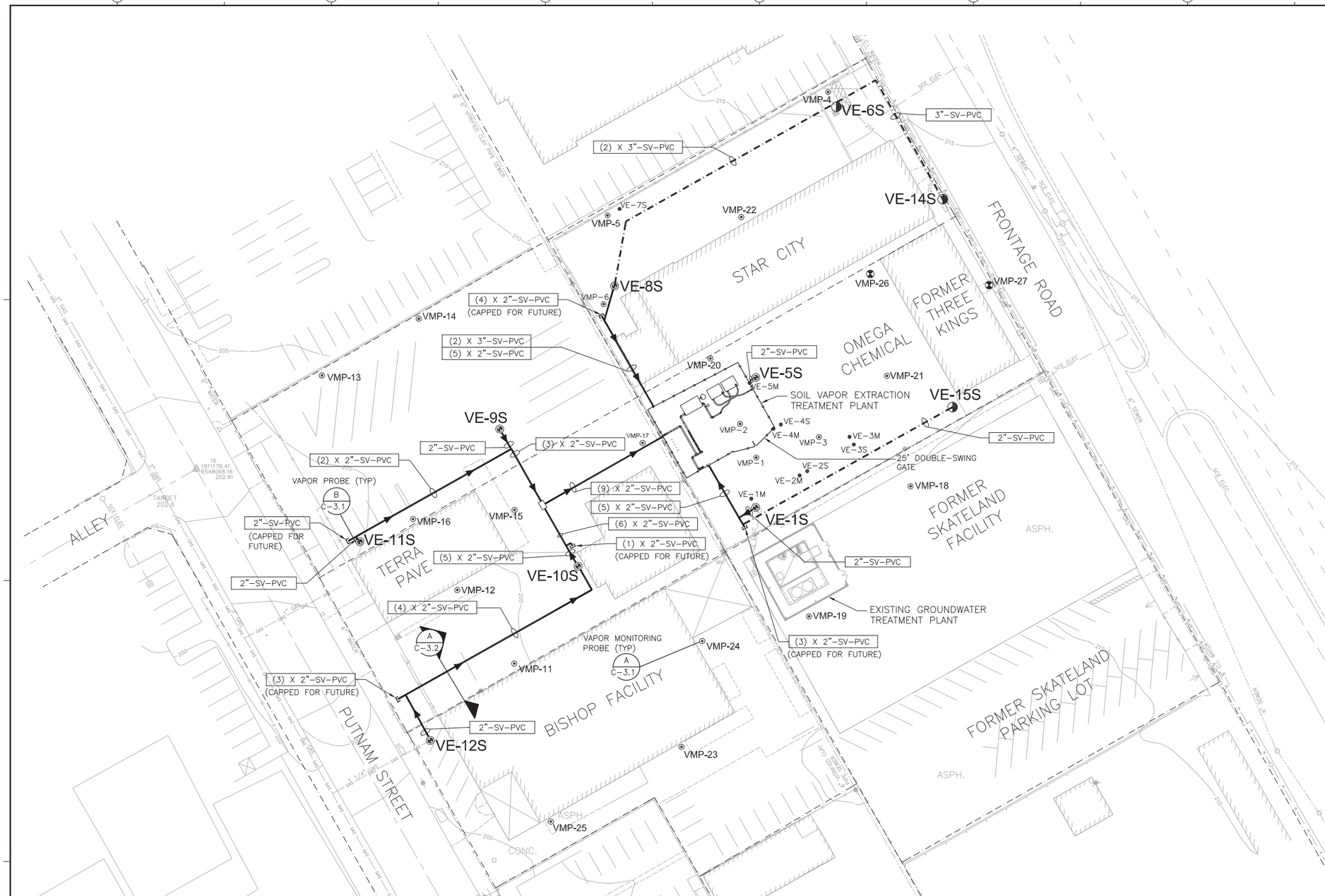
Trichloroethene (TCE) Results
Regional Occupational Program Building




Tetrachloroethene (PCE) Results
Fred R. Rippy Building
1000
100
10
1
PCE Results (ug/m3)
Front Office
Production Area
Warehouse
PCE Long Term Exposure Limit
(10-4), 210
PCE Long Term Exposure Limit
(10-6), 2.1
1-Jul-10
27-Aug-10
30-Nov-10
26-Jan-11
28-Feb-11
30-Mar-11
29-Apr-11
31-May-11
29-Jun-11
27-Jul-11
31-Aug-11
27-Sep-11
28-Oct-11
30-Nov-11
21-Dec-11
Date


Trichloroethene (TCE) Results
Fred R. Rippy Building
1000
100
10
1
0.1
TCE Results (ug/m3)
TCE Long Term Exposure Limit
(10-4), 610
TCE Long Term Exposure Limit
(10-6), 6.1
Front Office
Production Area
Warehouse
1-Jul-10
27-Aug-10
30-Nov-10
26-Jan-11
28-Feb-11
30-Mar-11
29-Apr-11
31-May-11
29-Jun-11
27-Jul-11
31-Aug-11
27-Sep-11
28-Oct-11
30-Nov-11
21-Dec-11
Date

Attachment D: Interim SVE System Figures and Tables



NOTES:

1. NOT USED.
2. NOT USED.
3. ADDRESS FOR:
   TREATMENT PLANT: 12512 EAST WHITTIER BLVD.
   WHITTIER, CA. 90602
4. SCALED DISTANCES GOVERN OVER DIMENSIONS.

LEGEND

- SOIL VAPOR EXTRACTION CONVEYANCE LINE
- VE-XS — SOIL VAPOR EXTRACTION WELL WITH WELLBOX
- VMP-XX — SOIL VAPOR MONITORING PROBE
- VE-XS — SOIL VAPOR EXTRACTION WELL (UNUSED)

ISVE EXPANSION

- SOIL VAPOR EXTRACTION CONVEYANCE LINE
- VE-XS — SOIL VAPOR EXTRACTION WELL WITH WELLBOX
- VMP-XX — SOIL VAPOR MONITORING PROBE

- PROPERTY LINE
- SEWER
- GAS
- WATER
- ELECTRICAL
- TELEPHONE

N

PLAN

1" = 30'

15 0 30

REFERENCE: PIPE ALIGNMENT SURVEY BY DAVID BUSH AND ASSOCIATES INC.
DWGS OCVAPOR1 042010 AND OCVAPOR2 050510.

RECORD DRAWING

CALL BEFORE YOU DIG:
UNDERGROUND SERVICE ALERT OF
SOUTHERN CALIFORNIA
TWO WORKING DAYS BEFORE YOU DIG
1-800-227-2600

REV. NO.	DATE	DRWN	CHKD	REMARKS
3	11/10	MAR	VTB	FOR RECORD DRAWING
2	6/10	PJR		FOR RECORD DRAWING
1	1/20/10	PJR	JTB	FOR PRELIMINARY DESIGN REPORT

DESIGNED BY: SHA
DRAWN BY: PJR
SHEET CHK'D BY: SHA
CROSS CHK'D BY: JTB
APPROVED BY: RS
DATE: JANUARY 2010

WARNING
0 1/2 1"
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

REGISTERED PROFESSIONAL ENGINEER JOHN HEISER C 047382 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations
111 Academy, Suite 150
Irvine, California 92617
Tel: (949) 752-5452
Fax: (949) 725-3790

OMEGA CHEMICAL SUPERFUND SITE

12504/12512 EAST WHITTIER BOULEVARD
WHITTIER, CALIFORNIA

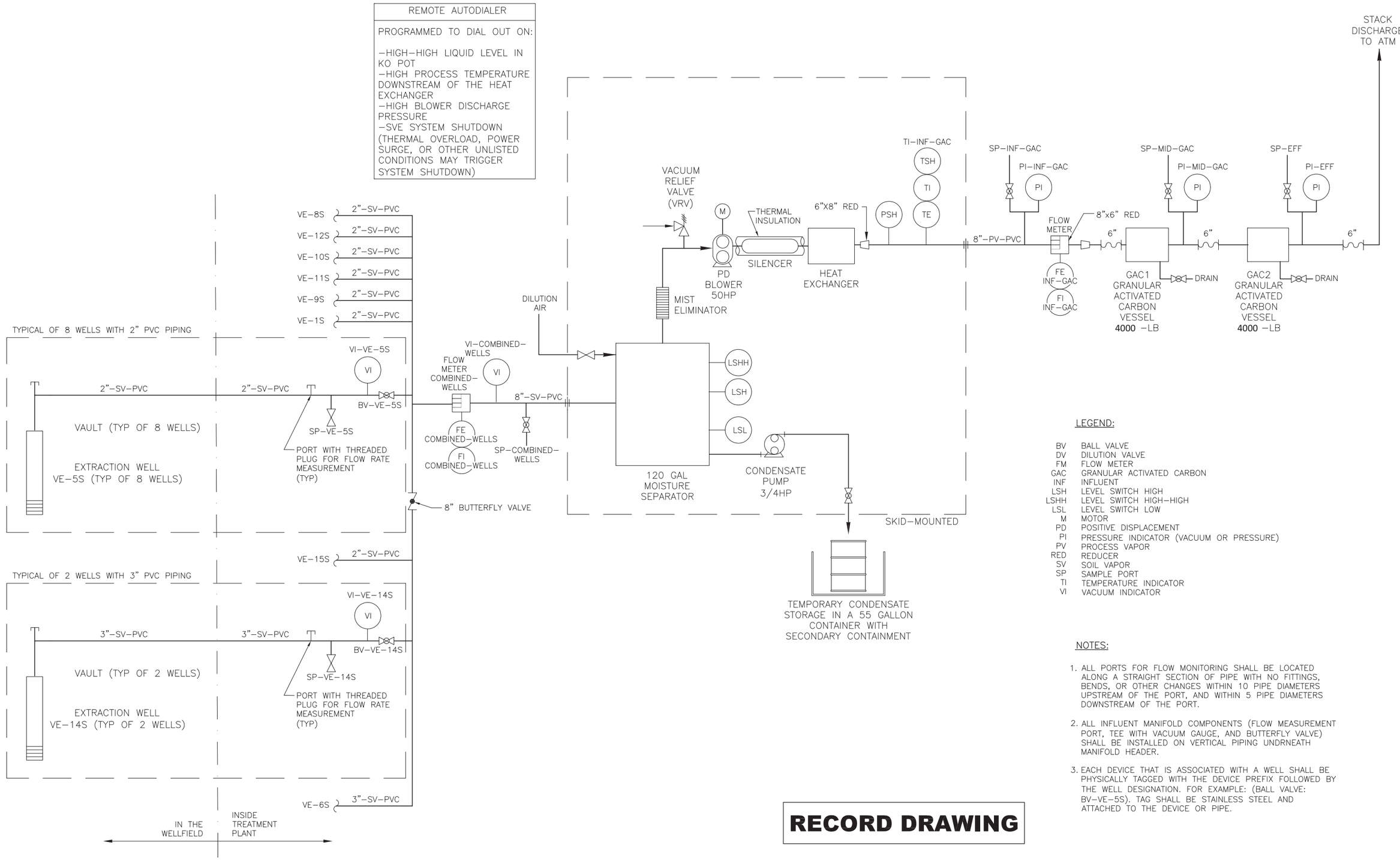
SOIL VAPOR EXTRACTION SYSTEM

Figure D1 - Plan View of Extraction Wells, Treatment Plant, and Conveyance Piping Routing

PROJECT NO. 10500-70150

SHEET NO. Figure D1

\\Wicsvr01\projects\10500-70150\Record Dwgs-Nov 2010\ C-2.1 11/12/10 14:57 rushma XREFS: SVE-22X34TBL, SVE-SurfaceTypeandCondition, SVE-SURVEY, SVE-cwpl0000, SVE-00001PL-EXISTING, SVE-cutil000, SVE-00001PL-NEW, OCVAPOR3



LEGEND:

BV	BALL VALVE
DV	DILUTION VALVE
FM	FLOW METER
GAC	GRANULAR ACTIVATED CARBON
INF	INFLUENT
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH–HIGH
LSL	LEVEL SWITCH LOW
M	MOTOR
PD	POSITIVE DISPLACEMENT
PI	PRESSURE INDICATOR (VACUUM OR PRESSURE)
PV	PROCESS VAPOR
RED	REDUCER
SV	SOIL VAPOR
SP	SAMPLE PORT
TI	TEMPERATURE INDICATOR
VI	VACUUM INDICATOR

NOTES:

1. ALL PORTS FOR FLOW MONITORING SHALL BE LOCATED ALONG A STRAIGHT SECTION OF PIPE WITH NO FITTINGS, BENDS, OR OTHER CHANGES WITHIN 10 PIPE DIAMETERS UPSTREAM OF THE PORT, AND WITHIN 5 PIPE DIAMETERS DOWNSTREAM OF THE PORT.
2. ALL INFLUENT MANIFOLD COMPONENTS (FLOW MEASUREMENT PORT, TEE WITH VACUUM GAUGE, AND BUTTERFLY VALVE) SHALL BE INSTALLED ON VERTICAL PIPING UNDRNEATH MANIFOLD HEADER.
3. EACH DEVICE THAT IS ASSOCIATED WITH A WELL SHALL BE PHYSICALLY TAGGED WITH THE DEVICE PREFIX FOLLOWED BY THE WELL DESIGNATION. FOR EXAMPLE: (BALL VALVE: BV–VE–5S). TAG SHALL BE STAINLESS STEEL AND ATTACHED TO THE DEVICE OR PIPE.

RECORD DRAWING

REV. NO.	DATE	DRWN	CHKD	REMARKS
3	11/10	MAR	VTB	FOR RECORD DRAWING
2	6/10	PJR		FOR RECORD DRAWING
1	1/20/10	PJR	JTB	FOR PRELIMINARY DESIGN REPORT

DESIGNED BY: JTB
DRAWN BY: PJR
SHEET CHK'D BY: HC
CROSS CHK'D BY: JTB
APPROVED BY: RS
DATE: JANUARY 2010

WARNING
0 1/2 1"
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

REGISTERED PROFESSIONAL ENGINEER JOHN HEISER C 047302 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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111 Academy, Suite 150
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Tel: (949) 752–5452
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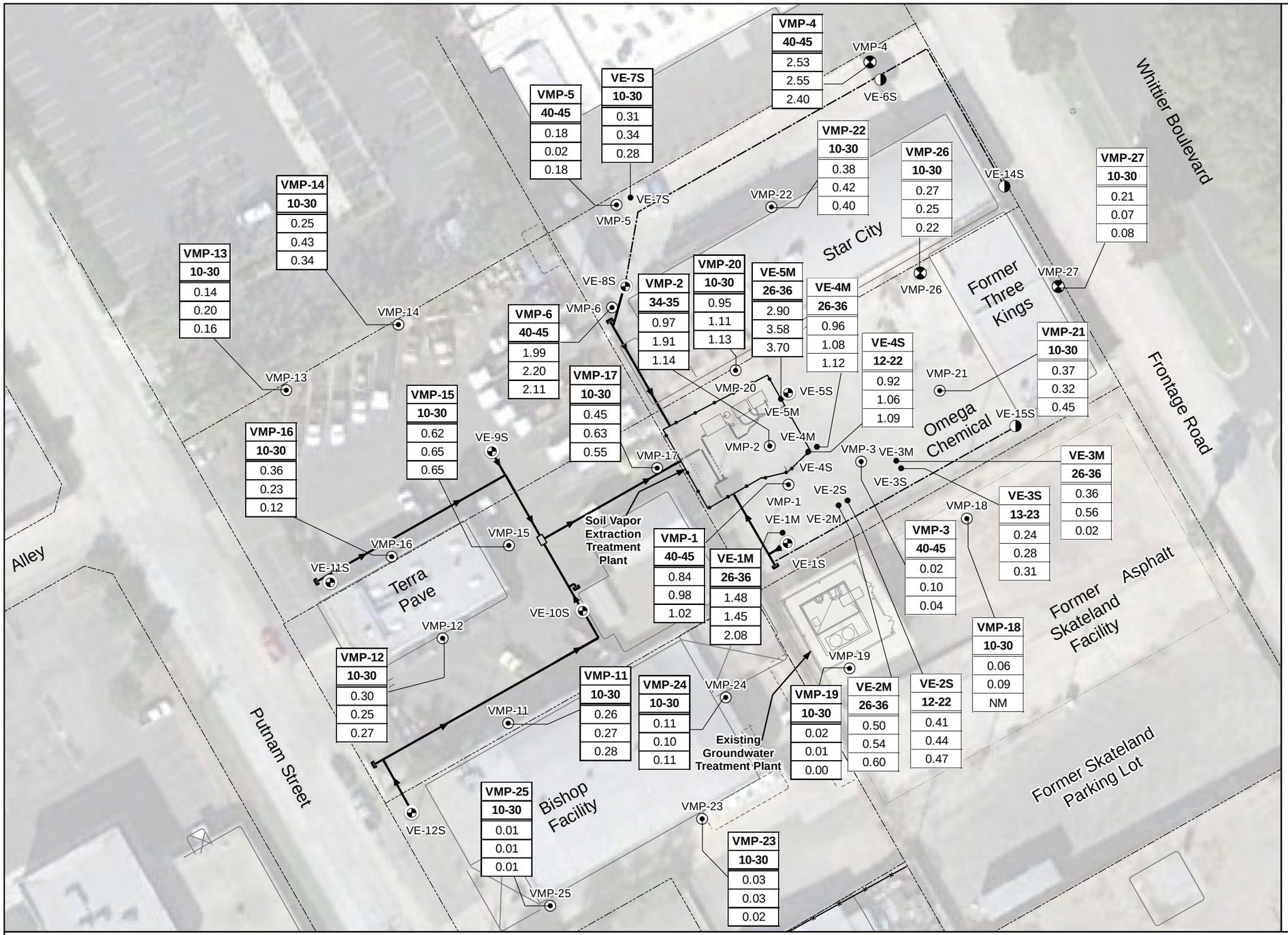
OMEGA CHEMICAL SUPERFUND SITE
12504/12512 EAST WHITTIER BOULEVARD
WHITTIER, CALIFORNIA

SOIL VAPOR EXTRACTION SYSTEM
Figure D2 - Piping and Instrument Diagram

PROJECT NO. 10500–70150
SHEET NO. Figure D2

\\Wlcsvr01\projects\10500–70150\Record Dwgs–Nov 2010\ 1–3 11/12/10 13:23 rushma XREFS: SVE–22X34TBL



Legend

Existing ISVE

- Soil Vapor Extraction Conveyance Line
- Soil Vapor Extraction Well with Wellbox
- Soil Vapor Monitoring Probe
- Soil Vapor Extraction Well (Unused)

ISVE Expansion

- Soil Vapor Extraction Conveyance Line
- Soil Vapor Extraction Well with Wellbox
- Soil Vapor Monitoring Probe

- Property Line
- Vault

Well Name
Screen Interval (ft bgs)
Measured vacuum on 10/17/2011 (in H_2O)
Measured vacuum on 11/21/2011 (in H_2O)
Measured vacuum on 12/20/2011 (in H_2O)

Notes:

Negative values indicate positive pressure

NM - Not measured

ft bgs - feet below ground surface

in H_2O - inches of water

Source: Sheet No. C-2.1 Plan View of Extraction Wells, Treatment Plant, and Conveyance Piping Routing
Pipe Alignment Survery by David Bush and Associates Inc. (Dwgs OCVAPOR1 042010 and OCVAPOR2 050510)

N

50 25 0 50
Feet
1 inch = 50 feet

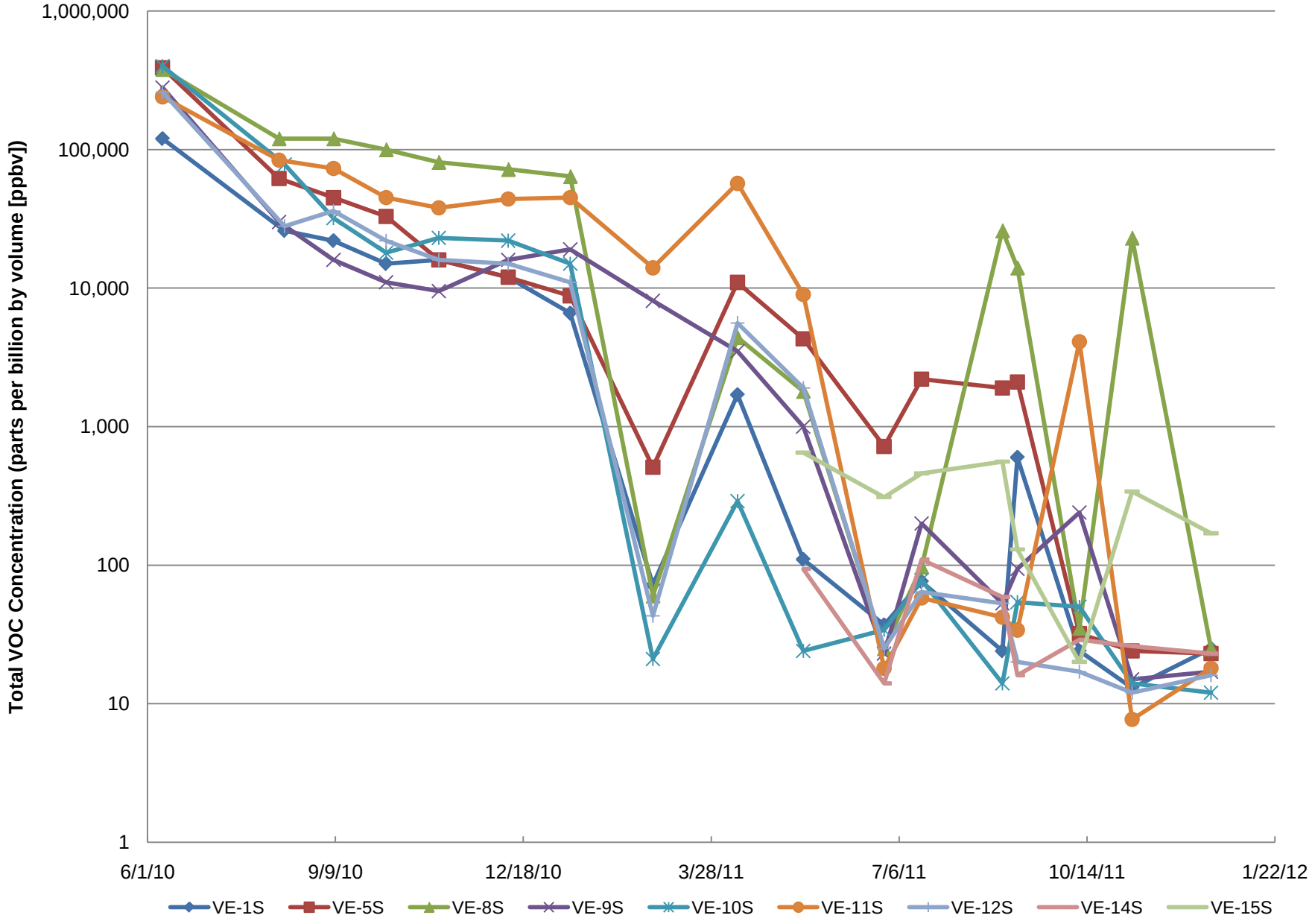
CDM Smith

Omega Chemical

ISVE Vacuum Influence Coverage Map

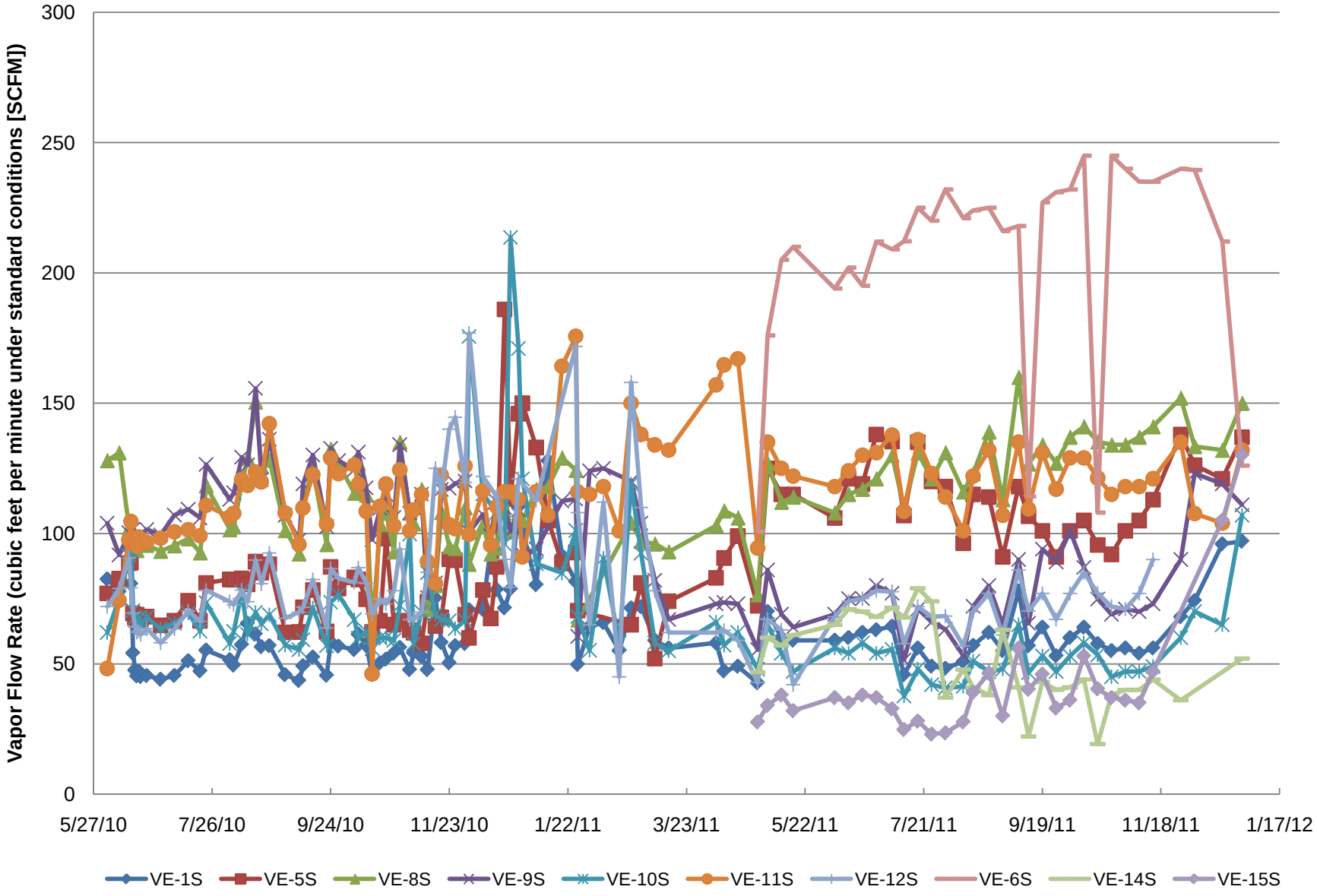
Figure D3

Figure D4 - VOC Concentration Trend at VEWs



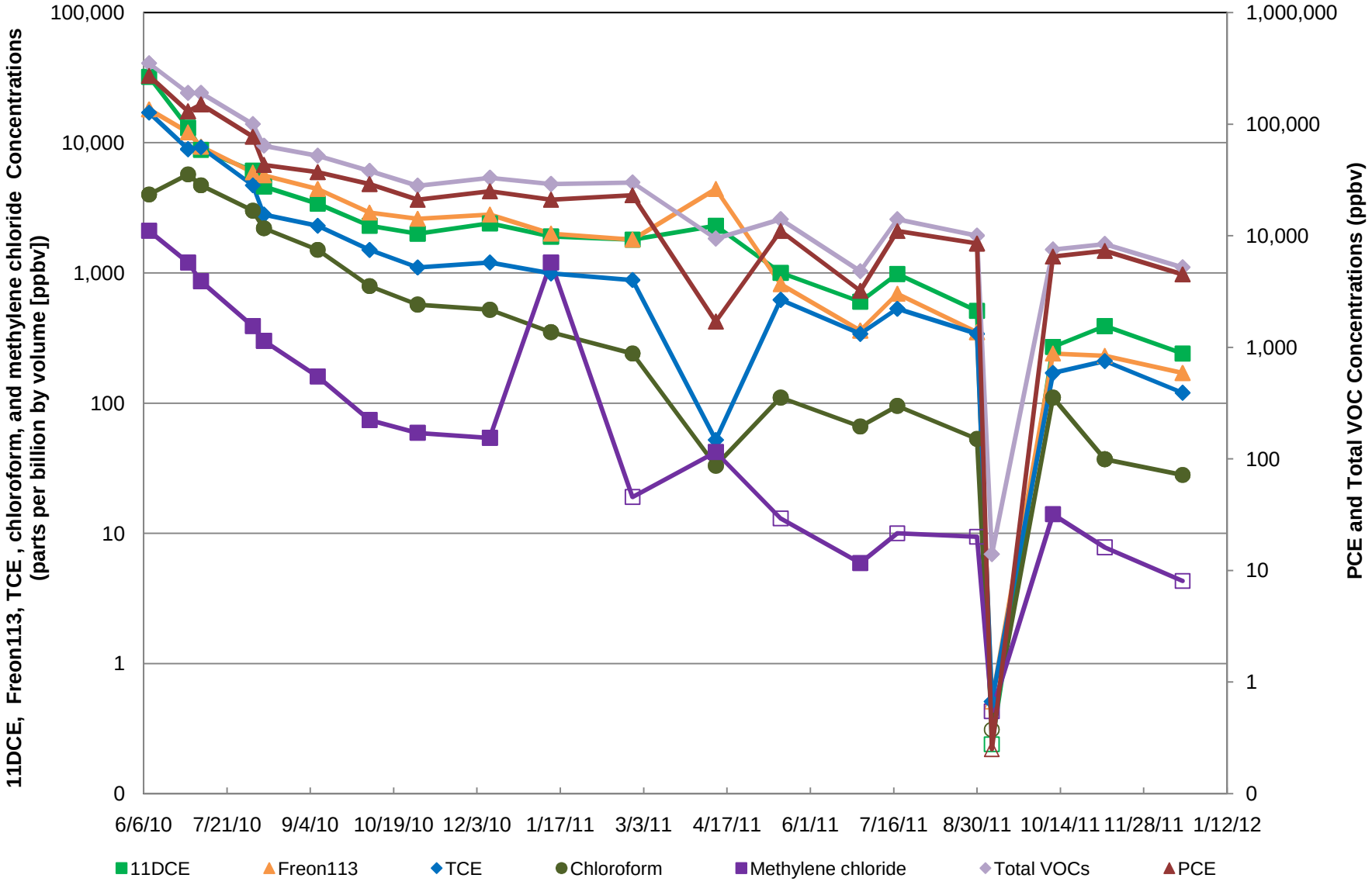
2/1/2012

Figure D5 - Vapor Extraction Rate at VEWs



2/1/2012

Figure D6 - ISVE Influent - Select Chlorinated VOC Concentrations



Note: Open symbol represent non-detected concentration

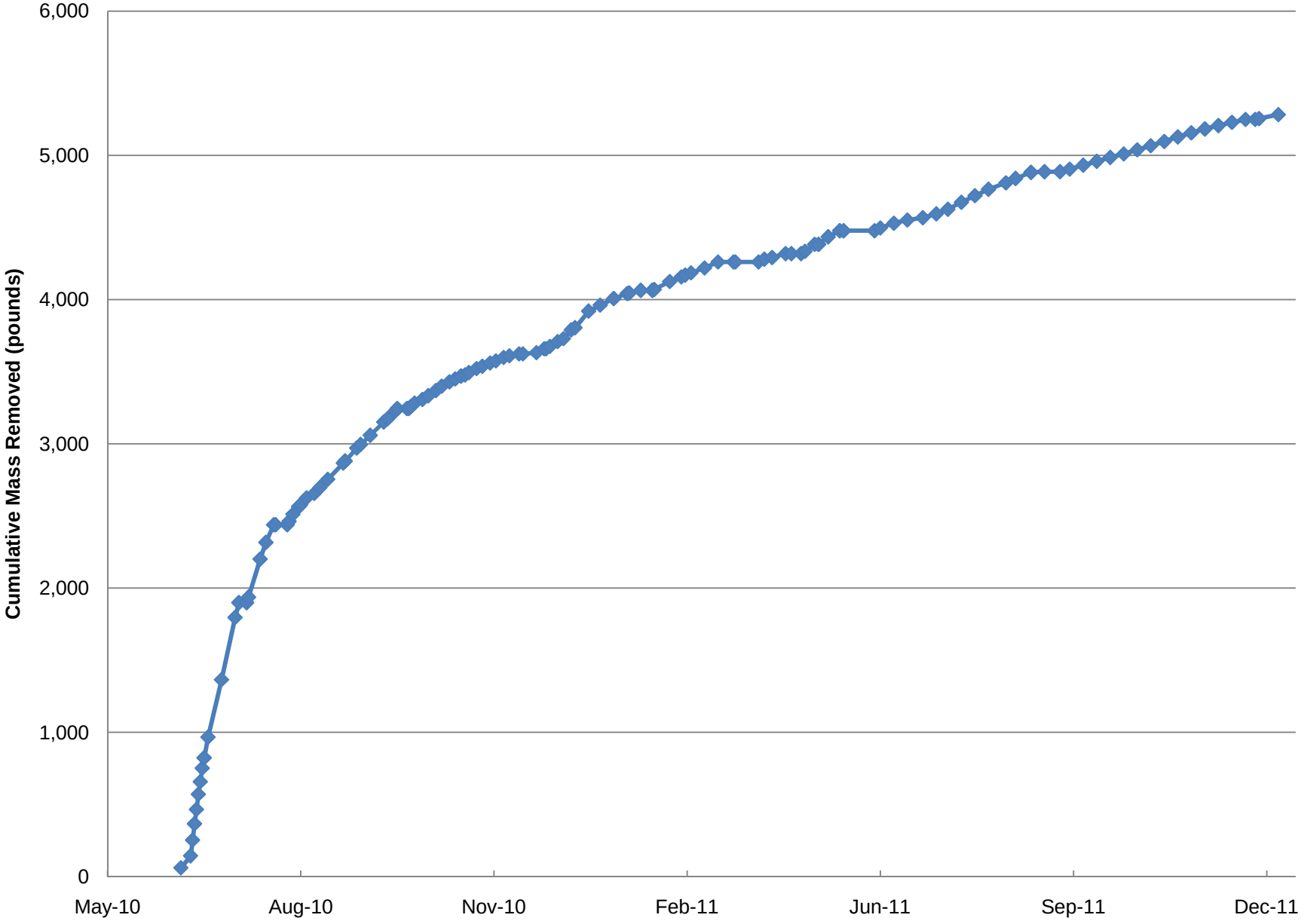
2/1/2012

Figure D7 - ISVE Influent - Select Non-Chlorinated VOC Concentrations

Note: Open symbol represent non-detected concentration

2/1/2012

Figure D8 - ISVE Cumulative Total VOC Mass Removal



2/1/2012

Table D1
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VE-1M	26-36	6/3/2010	0.15	9,999 E
		6/9/2010	2.00	9,999 E
		7/7/2010	20.0	168
		8/4/2010	1.00	1,410
		9/8/2010	0.00	2,630
		9/15/2010	1.14	NM
		10/6/2010	1.30	1,680
		11/3/2010	1.35	1,670
		12/28/2010	1.96	2,010
		1/12/2011	1.77	632
		2/23/2011	1.63	9,999 E
		4/11/2011	1.26	425
		4/25/2011	0.02	75
		5/24/2011	-0.01	25
		6/30/2011	1.50	19
		7/22/2011	1.26	0.0
		8/23/2011	1.40	11
		9/7/2011	1.49	18
		10/17/2011	1.48	16
		11/21/2011	1.45	14
		12/20/2011	2.08	18
VE-2M	26-36	6/3/2010	0.00	9,999 E
		6/9/2010	0.00	11
		7/7/2010	5.00	29
		8/4/2010	0.00	28
		9/8/2010	0.00	9.6
		9/15/2010	0.32	NM
		10/6/2010	0.25	1.6
		11/3/2010	0.37	10
		12/28/2010	0.57	5.2
		1/12/2011	0.49	0.5
		2/23/2011	0.82	6.2
		4/11/2011	0.60	2.1
		4/25/2011	0.03	1.2
		5/24/2011	0.00	0.0
		6/30/2011	0.57	1.1
		7/22/2011	0.51	0.0
		8/23/2011	0.44	0.0
		9/7/2011	0.34	0.0
		10/17/2011	0.50	1.2
		11/21/2011	0.54	0.0
		12/20/2011	0.60	2.6

Table D1
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VE-2S	12-22	6/3/2010	0.05	2,590
		6/9/2010	6.50	1,980
		7/7/2010	26.0	15
		8/4/2010	0.00	7.3
		9/8/2010	0.00	4.5
		9/15/2010	0.24	NM
		10/6/2010	0.28	2.1
		11/3/2010	0.29	4.7
		12/28/2010	0.46	2.5
		1/12/2011	0.39	0.0
		2/23/2011	0.44	4.5
		4/11/2011	0.43	4.2
		4/25/2011	0.02	0.9
		5/24/2011	0.00	0.0
		6/30/2011	0.46	5.7
		7/22/2011	0.42	0.0
		8/23/2011	0.34	0.0
		9/7/2011	0.44	0.0
		10/17/2011	0.41	0.0
		11/21/2011	0.44	0.0
		12/20/2011	0.47	2.2
VE-3M	26-36	6/3/2010	0.05	3,610
		6/9/2010	0.00	4,410
		7/7/2010	5.00	13
		8/4/2010	3.00	18
		9/8/2010	0.00	5.5
		9/15/2010	0.18	NM
		10/6/2010	0.20	6.9
		11/3/2010	0.21	12
		12/28/2010	0.31	3.5
		1/12/2011	0.25	0.0
		2/23/2011	0.31	3.9
		4/11/2011	0.35	1.7
		4/25/2011	0.02	1.8
		5/24/2011	-0.02	0.0
		6/30/2011	0.39	1.2
		7/22/2011	0.36	0.0
		8/23/2011	0.31	114
		9/7/2011	0.32	0.0
		10/17/2011	0.36	0.9
		11/21/2011	0.56	0.0
		12/20/2011	0.02	1.6

Table D1
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VE-3S	12.5-22.5	6/3/2010	0.50	1,660
		6/9/2010	2.00	1,870
		7/7/2010	1.00	27.1
		8/4/2010	2.00	14.6
		9/8/2010	0.00	5.8
		9/15/2010	0.12	NM
		10/6/2010	0.15	2.3
		11/3/2010	0.15	6.4
		12/28/2010	0.25	2.3
		1/12/2011	0.20	0.0
		2/23/2011	0.27	2.2
		4/11/2011	0.78	0.1
		4/25/2011	0.03	0.5
		5/24/2011	-0.02	0.0
		6/30/2011	0.30	4.2
		7/22/2011	0.27	112
		8/23/2011	0.24	0.0
		9/7/2011	0.22	0.0
		10/17/2011	0.24	0.3
		11/21/2011	0.28	0.4
		12/20/2011	0.31	0.0
VE-4M	26-36	6/3/2010	1.00	9,999 E
		6/9/2010	0.00	9,999 E
		7/7/2010	0.00	2.4
		8/4/2010	1.00	52
		9/8/2010	0.00	19
		9/15/2010	0.59	NM
		10/6/2010	0.69	19
		11/3/2010	0.66	18
		12/28/2010	0.65	7.8
		1/12/2011	0.71	0.0
		2/23/2011	0.78	4.5
		4/11/2011	1.05	1.8
		4/25/2011	0.01	1.7
		5/24/2011	-0.02	0.9
		6/30/2011	1.18	1.5
		7/22/2011	1.07	96
		8/23/2011	0.84	0.0
		9/7/2011	0.84	0.0
		10/17/2011	0.96	0.7
		11/21/2011	1.08	3.7
		12/20/2011	1.12	1.3

Table D1
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VE-4S	12-22	6/3/2010	0.50	4,230
		6/9/2010	1.50	9,710
		7/7/2010	23.0	80
		8/4/2010	0.00	22
		9/8/2010	0.00	8.7
		9/15/2010	0.56	NM
		10/6/2010	0.65	5.0
		11/3/2010	0.70	7.7
		12/28/2010	0.63	3.6
		1/12/2011	0.72	0.0
		2/23/2011	0.77	0.9
		4/11/2011	1.28	0.0
		4/25/2011	0.02	1.6
		5/24/2011	-0.01	0.0
		6/30/2011	1.15	1.9
		7/22/2011	1.08	0.0
		8/23/2011	0.81	0.0
		9/7/2011	0.81	0.0
		10/17/2011	0.92	1.0
		11/21/2011	1.06	0.0
		12/20/2011	1.09	2.1
VE-5M	26-36	6/3/2010	0.15	241
		6/9/2010	4.00	80
		7/7/2010	7.00	9,999 E
		8/4/2010	1.00	9,999 E
		9/8/2010	0.50	1,620
		9/15/2010	1.94	NM
		10/6/2010	2.04	1,480
		11/3/2010	1.83	1,330
		12/28/2010	2.21	3,000
		1/12/2011	1.82	2,500
		2/23/2011	1.85	42
		4/11/2011	3.18	1,590
		4/25/2011	0.04	232
		5/24/2011	-0.01	64
		6/30/2011	3.18	17
		7/22/2011	3.73	0.0
		8/23/2011	3.06	19
		9/7/2011	2.92	122
		10/17/2011	2.90	26
		11/21/2011	3.58	26
		12/20/2011	3.70	29

Table D1
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VE-6S **	10-30	6/3/2010	0.00	76
		6/9/2010	0.00	26
		7/7/2010	1.00	48
		8/4/2010	4.00	35
		9/8/2010	0.00	2.2
		9/15/2010	NM	NM
		10/6/2010	0.00	132
		11/3/2010	0.02	125
		12/28/2010	0.03	28
		1/12/2011	0.05	8.1
		2/23/2011	0.11	6.6
		4/11/2011	0.49	69
		4/25/2011	0.13	12
		5/24/2011	-0.01	51
		6/30/2011	0.20	115
		7/22/2011	0.00	0.0
		8/23/2011	0.20	5.1
		9/7/2011	0.20	27
VE-7S	10-30	6/3/2010	0.00	9,999 E
		6/9/2010	5.50	9,999 E
		7/7/2010	20.0	356
		8/4/2010	2.00	187
		9/8/2010	0.00	175
		9/15/2010	NM	NM
		10/6/2010	0.20	27
		11/3/2010	0.19	106
		12/28/2010	0.28	49
		1/12/2011	0.28	111
		2/23/2011	0.30	60
		4/11/2011	0.31	148
		4/25/2011	0.05	32
		5/24/2011	0.02	37
		6/30/2011	0.37	39
		7/22/2011	0.31	56
		8/23/2011	0.26	0.2
		9/7/2011	0.25	22
		10/17/2011	0.31	1.1
		11/21/2011	0.34	0.0
		12/20/2011	0.28	2.5

Table D1
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-1	40-45	6/3/2010	0.00	9,999 E
		6/9/2010	1.00	9,999 E
		7/7/2010	1.00	652
		8/4/2010	1.00	429
		9/8/2010	0.00	182
		9/15/2010	0.53	NM
		10/6/2010	0.20	40
		11/3/2010	0.61	46
		12/28/2010	0.88	38
		1/12/2011	0.69	6.7
		2/23/2011	0.76	2.3
		4/11/2011	0.93	2.5
		4/25/2011	0.08	5.3
		5/24/2011	-0.01	2.7
		6/30/2011	1.05	3.4
		7/22/2011	0.93	0.0
		8/23/2011	0.68	0.2
		9/7/2011	0.70	0.0
		10/17/2011	0.84	2.5
		11/21/2011	0.98	2.0
		12/20/2011	1.02	2.0
VMP-2	33.5-35	6/3/2010	1.00	9,999 E
		6/9/2010	1.50	9,999 E
		7/7/2010	14.0	326
		8/4/2010	1.00	177
		9/8/2010	0.00	30
		9/15/2010	0.59	NM
		10/6/2010	0.13	16
		11/3/2010	0.68	23
		12/28/2010	0.97	12
		1/12/2011	0.76	0.0
		2/23/2011	0.84	10
		4/11/2011	1.48	3.2
		4/25/2011	-0.02	0.7
		5/24/2011	0.01	0.0
		6/30/2011	1.18	0.5
		7/22/2011	1.10	114
		8/23/2011	0.85	0.3
		9/7/2011	0.23	77
		10/17/2011	0.97	0.4
		11/21/2011	1.91	0.7
		12/20/2011	1.14	1.5

Table D1
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-3	40-45	6/3/2010	0.00	2,890.0
		6/9/2010	0.00	2,020.0
		7/7/2010	24.0	7.9
		8/4/2010	8.00	11.0
		9/8/2010	0.00	12
		9/15/2010	0.12	NM
		10/6/2010	0.12	4.8
		11/3/2010	0.17	14
		12/28/2010	0.20	3.8
		1/12/2011	0.07	0.0
		2/23/2011	0.11	1.1
		4/11/2011	0.05	7.2
		4/25/2011	0.02	0.8
		5/24/2011	0.00	0.0
		6/30/2011	-0.02	1.2
		7/22/2011	0.04	0.0
		8/23/2011	0.06	0.0
		9/7/2011	0.03	0.0
		10/17/2011	0.02	1.1
		11/21/2011	0.10	0.0
		12/20/2011	0.04	1.3
VMP-4	40-45	6/3/2010	0.00	130
		6/9/2010	0.00	211
		7/7/2010	17.0	73
		8/4/2010	2.00	51
		9/8/2010	0.00	43
		9/15/2010	NM	NM
		10/6/2010	0.01	38
		11/3/2010	0.02	26
		12/28/2010	0.06	22
		1/12/2011	0.06	13
		2/23/2011	0.10	9.2
		4/11/2011	0.07	9.2
		4/25/2011	0.04	3.9
		5/24/2011	-0.02	5.3
		6/30/2011	2.38	78
		7/22/2011	2.42	40
		8/23/2011	2.40	350
		9/7/2011	2.36	0.0
		10/17/2011	2.53	239
		11/21/2011	2.55	229
		12/20/2011	2.40	345

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Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-5	40-45	6/3/2010	0.50	3,450
		6/9/2010	0.00	3,040
		7/7/2010	14.0	187
		8/4/2010	1.00	121
		9/8/2010	0.00	33
		9/15/2010	NM	NM
		10/6/2010	0.14	35
		11/3/2010	0.14	21
		12/28/2010	0.24	22
		1/12/2011	0.25	24
		2/23/2011	0.29	182
		4/11/2011	0.26	20
		4/25/2011	0.08	1,070
		5/24/2011	0.01	3.8
		6/30/2011	0.00	8.5
		7/22/2011	0.23	0.0
		8/23/2011	0.17	3.6
		9/7/2011	0.15	0.0
		10/17/2011	0.18	2.1
		11/21/2011	0.02	0.3
		12/20/2011	0.18	2.7
VMP-6	40-45	6/3/2010	0.00	9,999 E
		6/9/2010	11.5	9,999 E
		7/7/2010	19.0	9,999 E
		8/4/2010	0.00	5,050
		9/8/2010	1.50	3,170
		9/15/2010	NM	NM
		10/6/2010	1.80	2,390
		11/3/2010	1.78	1,880
		12/28/2010	2.06	2,650
		1/12/2011	2.14	4,600
		2/23/2011	2.03	122
		4/11/2011	2.06	1,420
		4/25/2011	0.07	12
		5/24/2011	0.01	173
		6/30/2011	1.63	230
		7/22/2011	0.00	79
		8/23/2011	1.71	336
		9/7/2011	1.69	2.4
		10/17/2011	1.99	395
		11/21/2011	2.20	376
		12/20/2011	2.11	392

Table D1
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Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-11	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	18.0	61
		8/4/2010	8.00	33
		9/8/2010	0.00	1.3
		9/15/2010	NM	NM
		10/6/2010	2.58	13
		11/3/2010	0.29	16
		12/14/2010	0.32	0.2
		1/12/2011	0.37	1.8
		2/23/2011	0.41	47
		4/11/2011	0.34	1.2
		4/25/2011	0.09	1.1
		5/24/2011	-0.01	0.0
		6/30/2011	0.27	8.0
		7/22/2011	0.25	60
		8/23/2011	0.21	0.1
		9/7/2011	0.25	0.6
		10/17/2011	0.26	2.1
		11/21/2011	0.27	2.7
		12/20/2011	0.28	2.7
VMP-12	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	19.0	266
		8/4/2010	6.00	129
		9/8/2010	0.00	47
		9/15/2010	NM	NM
		10/6/2010	0.32	51
		11/3/2010	0.30	21
		12/14/2010	0.36	9.3
		1/12/2011	0.40	6.0
		2/23/2011	0.52	24
		4/11/2011	0.44	3.6
		4/25/2011	0.07	3.2
		5/24/2011	0.00	2.2
		6/30/2011	0.30	10
		7/22/2011	0.24	77
		8/23/2011	0.11	5.6
		9/7/2011	0.16	5.9
		10/17/2011	0.30	2.1
		11/21/2011	2.48	3.7
		12/20/2011	0.27	1.2

Table D1
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Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-13	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	2.00	3.3
		8/4/2010	0.00	2.8
		9/8/2010	0.00	2.5
		9/15/2010	NM	NM
		10/6/2010	0.12	0.8
		11/3/2010	0.13	3.9
		12/14/2010	0.15	0.0
		1/12/2011	0.31	0.0
		2/23/2011	0.42	7.0
		4/11/2011	0.37	0.5
		4/25/2011	0.02	0.0
		5/24/2011	0.00	0.0
		6/30/2011	0.13	0.5
		7/22/2011	0.03	79
		8/23/2011	0.03	0.0
		9/7/2011	0.03	0.0
		10/17/2011	0.14	0.0
		11/21/2011	0.20	0.0
		12/20/2011	0.16	0.6
VMP-14	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	0.00	19
		8/4/2010	6.00	4.4
		9/8/2010	0.00	2.3
		9/15/2010	NM	NM
		10/6/2010	0.30	1.2
		11/3/2010	0.32	17
		12/14/2010	0.25	4.8
		1/12/2011	0.52	49
		2/23/2011	0.75	124
		4/11/2011	0.80	108
		4/25/2011	0.04	37
		5/24/2011	-0.01	2.4
		6/30/2011	0.24	15
		7/22/2011	0.16	51
		8/23/2011	0.22	0.0
		9/7/2011	0.17	0.0
		10/17/2011	0.25	0.0
		11/21/2011	0.43	0.0
		12/20/2011	0.34	0.9

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VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-15	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	10.0	49.4
		8/4/2010	1.00	15
		9/8/2010	0.00	8.0
		9/15/2010	NM	NM
		10/6/2010	0.58	2.7
		11/3/2010	0.62	11
		12/14/2010	0.62	1.9
		1/12/2011	0.76	1.8
		2/23/2011	1.02	51
		4/11/2011	0.87	1.5
		4/25/2011	0.05	0.0
		5/24/2011	0.01	0.0
		6/30/2011	0.62	10
		7/22/2011	0.57	69
		8/23/2011	0.44	4.5
		9/7/2011	0.55	2.9
		10/17/2011	0.62	0.0
		11/21/2011	0.65	0.2
		12/20/2011	0.65	2.5
VMP-16	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	0.00	46
		8/4/2010	6.00	21
		9/8/2010	0.00	7.5
		9/15/2010	NM	NM
		10/6/2010	0.63	17
		11/3/2010	0.73	8.3
		12/14/2010	0.70	2.5
		1/12/2011	0.67	1.0
		2/23/2011	0.90	10
		4/11/2011	0.79	0.6
		4/25/2011	0.02	1.4
		5/24/2011	0.12	0.0
		6/30/2011	0.45	2.5
		7/22/2011	0.05	80
		8/23/2011	0.32	0.0
		9/7/2011	0.53	6.7
		10/17/2011	0.36	3.5
		11/21/2011	0.23	0.3
		12/20/2011	0.12	98

Table D1
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VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-17	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	8.00	35
		8/4/2010	6.00	8.7
		9/8/2010	0.00	5.0
		9/15/2010	NM	NM
		10/6/2010	0.54	3.7
		11/3/2010	0.29	6.6
		12/14/2010	0.48	1.1
		1/12/2011	0.60	1.8
		2/23/2011	0.80	39
		4/11/2011	0.71	0.0
		4/25/2011	0.04	0.0
		5/24/2011	0.01	0.0
		6/30/2011	0.51	1.0
		7/22/2011	0.44	65
		8/23/2011	0.23	0.0
		9/7/2011	0.37	0.0
		10/17/2011	0.45	0.0
		11/21/2011	0.63	0.0
		12/20/2011	0.55	1.0
VMP-18	10-30	6/3/2010	0.00	580
		6/9/2010	9.00	784
		7/7/2010	30.0	219
		8/4/2010	0.00	99
		9/8/2010	0.00	74
		9/15/2010	NM	NM
		10/6/2010	0.30	40
		11/3/2010	0.03	31
		12/28/2010	0.06	11
		1/12/2011	0.05	21
		2/23/2011	0.14	8.5
		4/11/2011	0.28	3.5
		4/25/2011	0.11	3.1
		5/24/2011	-0.01	0.3
		6/30/2011	0.28	3.3
		7/22/2011	0.08	1.6
		8/23/2011	0.04	0.8
		9/7/2011	0.06	0.0
		10/17/2011	0.06	0.8
		11/21/2011	0.09	0.0
		12/20/2011	NM	NM

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VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-19	10-30	6/3/2010	0.00	564
		6/9/2010	0.50	691
		7/7/2010	31.0	123
		8/4/2010	0.00	96
		9/8/2010	0.00	67
		9/15/2010	NM	NM
		10/6/2010	0.00	51
		11/3/2010	0.01	41
		12/28/2010	0.01	12
		1/12/2011	0.02	11
		2/23/2011	0.12	20
		4/11/2011	0.01	17
		4/25/2011	0.12	1.9
		5/24/2011	-0.01	8.4
		6/30/2011	0.01	21
		7/22/2011	0.02	17
		8/23/2011	0.01	14
		9/7/2011	0.02	8.4
		10/17/2011	0.02	11
		11/21/2011	0.01	8.0
		12/20/2011	0.00	8.1
VMP-20	10-30	6/3/2010	0.05	2,180
		6/9/2010	1.00	9,999 E
		7/7/2010	19.0	71.0
		8/4/2010	1.00	56.7
		9/8/2010	0.00	12.6
		9/15/2010	NM	NM
		10/6/2010	0.68	9.3
		11/3/2010	0.69	13
		12/28/2010	1.02	3.0
		1/12/2011	0.85	2.6
		2/23/2011	0.91	2.8
		4/11/2011	1.28	3.3
		4/25/2011	0.04	1.2
		5/24/2011	0.02	0.0
		6/30/2011	1.62	0.0
		7/22/2011	1.14	0.0
		8/23/2011	0.09	0.6
		9/7/2011	0.83	0.0
		10/17/2011	0.95	3.1
		11/21/2011	1.11	1.1
		12/20/2011	1.13	2.7

Table D1
Omega Chemical Superfund Site
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VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-21	10-30	6/3/2010	0.45	604
		6/9/2010	7.00	1,060
		7/7/2010	16.0	181
		8/4/2010	0.00	112
		9/8/2010	0.00	42
		9/15/2010	NM	NM
		10/6/2010	0.17	28
		11/3/2010	0.18	11
		12/28/2010	0.18	11
		1/12/2011	0.17	4.8
		2/23/2011	0.25	8.4
		4/11/2011	0.26	3.0
		4/25/2011	0.12	1.5
		5/24/2011	-0.02	0.0
		6/30/2011	0.42	2.0
		7/22/2011	0.38	131
		8/23/2011	0.34	0.5
		9/7/2011	0.27	0.0
		10/17/2011	0.37	1.2
		11/21/2011	0.32	0.0
		12/20/2011	0.45	2.3
VMP-22	10-30	6/3/2010	0.00	1,550
		6/9/2010	0.50	9,999 E
		7/7/2010	19.0	357
		8/4/2010	0.00	117
		9/8/2010	0.00	62
		9/15/2010	NM	NM
		10/6/2010	0.18	41
		11/3/2010	0.17	29
		12/28/2010	0.25	19
		1/12/2011	0.04	14
		2/23/2011	0.25	14
		4/11/2011	0.27	16
		4/25/2011	0.34	3.9
		5/24/2011	0.02	3.7
		6/30/2011	0.51	7.0
		7/22/2011	0.40	52
		8/23/2011	0.33	0.2
		9/7/2011	0.34	0.6
		10/17/2011	0.38	2.2
		11/21/2011	0.42	0.8
		12/20/2011	0.40	2.7

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VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-23	10-30	6/3/2010	0.00	4,330
		6/9/2010	0.00	9,999 E
		7/7/2010	26.0	2,860
		8/4/2010	5.00	183
		9/8/2010	0.00	820
		9/15/2010	NM	NM
		10/6/2010	0.07	7.5
		11/3/2010	0.03	255
		12/14/2010	0.05	159
		1/12/2011	0.08	100
		2/23/2011	0.10	114
		4/11/2011	0.02	90
		4/25/2011	0.06	27
		5/24/2011	0.00	12
		6/30/2011	0.00	42
		7/22/2011	0.04	0.0
		8/23/2011	0.06	12
		9/7/2011	0.01	14
		10/17/2011	0.03	30
		11/21/2011	0.03	20
		12/20/2011	0.02	25
VMP-24	10-30	6/3/2010	0.00	1,270
		6/9/2010	0.50	9,999 E
		7/7/2010	21.0	420
		8/4/2010	1.00	266
		9/8/2010	0.00	105
		9/15/2010	NM	NM
		10/6/2010	0.00	297
		11/3/2010	0.06	51
		12/14/2010	0.12	33
		1/12/2011	0.13	21
		2/23/2011	0.21	20
		4/11/2011	0.13	6.3
		4/25/2011	0.06	0.5
		5/24/2011	-0.01	0.0
		6/30/2011	1.34	11
		7/22/2011	1.66	0.0
		8/23/2011	0.10	3.5
		9/7/2011	0.10	6.1
		10/17/2011	0.11	15
		11/21/2011	0.10	7.9
		12/20/2011	0.11	10

Table D1
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Interim Soil Vapor Extraction System
VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-25	10-30	6/3/2010	0.00	1,030
		6/9/2010	0.00	867
		7/7/2010	19.0	73
		8/4/2010	0.00	52
		9/8/2010	0.00	17
		9/15/2010	NM	NM
		10/6/2010	0.00	14
		11/3/2010	0.00	21
		12/14/2010	0.01	2.9
		1/12/2011	0.02	0.3
		2/23/2011	0.07	6.4
		4/11/2011	0.01	3.1
		4/25/2011	0.11	1.0
		5/24/2011	0.00	0.0
		6/30/2011	0.00	7.3
		7/22/2011	0.01	0.0
		8/23/2011	0.01	10
		9/7/2011	0.00	22
		10/17/2011	0.01	2.7
		11/21/2011	0.01	0.0
		12/20/2011	0.01	6.0
VMP-26 *	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	NM	NM
		8/4/2010	NM	NM
		9/8/2010	NM	NM
		9/15/2010	NM	NM
		10/6/2010	0.00	19
		11/3/2010	0.05	8.3
		12/28/2010	0.11	2.1
		1/12/2011	0.07	0.6
		2/23/2011	0.16	2.4
		4/11/2011	0.14	0.8
		4/25/2011	0.10	2.7
		5/24/2011	-0.02	0.7
		6/30/2011	0.34	41
		7/22/2011	0.28	200
		8/23/2011	0.25	0.0
		9/7/2011	0.24	17
		10/17/2011	0.27	0.5
		11/21/2011	0.25	0.0
		12/20/2011	0.22	1.3

Table D1
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VMP Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Vacuum (in H_2O)	PID Reading (ppmv)
VMP-27 *	10-30	6/3/2010	NM	NM
		6/9/2010	NM	NM
		7/7/2010	NM	NM
		8/4/2010	NM	NM
		9/8/2010	NM	NM
		9/15/2010	NM	NM
		10/6/2010	0.05	2.0
		11/3/2010	0.00	14
		12/28/2010	0.01	1.4
		1/12/2011	0.03	0.0
		2/23/2011	0.09	1.8
		4/11/2011	0.02	0.5
		4/25/2011	0.09	1.8
		5/24/2011	0.00	0.0
		6/30/2011	0.09	2.1
		7/22/2011	0.07	0.0
		8/23/2011	0.09	0.0
		9/7/2011	0.08	0.0
		10/17/2011	0.21	0.0
		11/21/2011	0.07	0.0
		12/20/2011	0.08	1.5

Notes:

*Additional wells installed in October 2010

**Converted to vapor extraction well in April 2011

E - Excceds PID range of detection

NM - Not measured.

ft bgs - feet below ground surface

ppmv - parts per million by volume

in H_2O - inches of water

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-1S	12.5-22.5	6/3/2010	100	0933	86	11.47	NM	83	1530
VE-1S	12.5-22.5	6/9/2010	100	0956	80	7.85	NM	78	2629
VE-1S	12.5-22.5	6/14/2010	50	1435	97	6.30	NM	89	240
VE-1S	12.5-22.5	6/15/2010	50	0953	86	6.25	NM	81	261
VE-1S	12.5-22.5	6/16/2010	25	1148	93	4.10	NM	54	336
VE-1S	12.5-22.5	6/17/2010	25	1016	83	4.40	NM	48	1098
VE-1S	12.5-22.5	6/18/2010	25	1135	79	4.45	NM	45	974
VE-1S	12.5-22.5	6/19/2010	25	1004	82	4.45	NM	47	902
VE-1S	12.5-22.5	6/20/2010	25	1013	80	4.75	NM	45	815
VE-1S	12.5-22.5	6/23/2010	25	1010	82	4.55	NM	45	700
VE-1S	12.5-22.5	6/30/2010	40	0935	78	4.80	NM	44	435
VE-1S	12.5-22.5	7/7/2010	40	1733	83	5.10	NM	45	340
VE-1S	12.5-22.5	7/14/2010	40	1349	97	4.40	NM	51	345
VE-1S	12.5-22.5	7/20/2010	40	1101	92	4.65	NM	47	254
VE-1S	12.5-22.5	7/23/2010	40	1228	95	5.65	NM	55	167
VE-1S	12.5-22.5	8/4/2010	40	1137	92	4.15	NM	52	157
VE-1S	12.5-22.5	8/6/2010	40	1238	90	4.60	NM	49	200
VE-1S	12.5-22.5	8/10/2010	NM	1534	95	4.75	NM	57	184
VE-1S	12.5-22.5	8/13/2010	40	1126	92	4.75	NM	66	164
VE-1S	12.5-22.5	8/17/2010	40	1720	97	4.65	19	61	118
VE-1S	12.5-22.5	8/20/2010	40	1234	96	4.60	23	57	210
VE-1S	12.5-22.5	8/24/2010	40	1635	100	4.75	14	57	175
VE-1S	12.5-22.5	9/1/2010	40	0945	84	4.85	34	46	157
VE-1S	12.5-22.5	9/8/2010	40	1402	83	4.95	35	44	106
VE-1S	12.5-22.5	9/10/2010	NM	1305	83	4.90	27	49	104
VE-1S	12.5-22.5	9/15/2010	NM	1440	92	5.15	28	53	120
VE-1S	12.5-22.5	9/22/2010	NM	1205	73	4.80	54	46	123
VE-1S	12.5-22.5	9/24/2010	NM	1045	90	4.80	31	58	81
VE-1S	12.5-22.5	9/28/2010	40	1151	95	4.90	28	57	80
VE-1S	12.5-22.5	10/6/2010	40	1110	71	4.70	75	55	83
VE-1S	12.5-22.5	10/8/2010	NM	1324	86	4.80	29	61	84
VE-1S	12.5-22.5	10/12/2010	40	1510	87	5.05	37	57	78
VE-1S	12.5-22.5	10/15/2010	40	1250	69	5.00	72	46	87
VE-1S	12.5-22.5	10/19/2010	40	1145	72	5.10	72	50	82
VE-1S	12.5-22.5	10/22/2010	40	1210	71	5.20	64	52	75
VE-1S	12.5-22.5	10/26/2010	40	0745	68	5.10	63	54	79
VE-1S	12.5-22.5	10/29/2010	40	1210	90	5.30	22	56	66
VE-1S	12.5-22.5	11/3/2010	40	0815	69	5.05	36	48	69
VE-1S	12.5-22.5	11/5/2010	40	0835	72	5.25	41	54	66
VE-1S	12.5-22.5	11/9/2010	40	1300	80	5.35	20	53	65
VE-1S	12.5-22.5	11/12/2010	40	0650	50	5.60	49	48	73
VE-1S	12.5-22.5	11/16/2010	40	0730	56	5.55	59	75	65
VE-1S	12.5-22.5	11/19/2010	40	0625	72	5.35	31	58	59
VE-1S	12.5-22.5	11/23/2010	50	1543	68	5.45	37	50	61
VE-1S	12.5-22.5	11/26/2010	50	0930	71	5.70	48	57	62
VE-1S	12.5-22.5	12/1/2010	50	1158	70	5.20	52	58	52
VE-1S	12.5-22.5	12/3/2010	50	0725	60	5.70	40	71	61
VE-1S	12.5-22.5	12/10/2010	50	0820	70	3.50	50	71	65
VE-1S	12.5-22.5	12/14/2010	NM	1130	64	3.95	86	95	63
VE-1S	12.5-22.5	12/17/2010	50	0750	61	4.00	68	78	62
VE-1S	12.5-22.5	12/21/2010	50	1155	70	4.30	75	71	NM
VE-1S	12.5-22.5	12/24/2010	50	50	58	4.25	60	79	NM
VE-1S	12.5-22.5	12/28/2010	50	1025	75	4.40	44	110	NM
VE-1S	12.5-22.5	12/30/2010	NM	1148	70	3.10	18	101	79

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-1S	12.5-22.5	1/6/2011	50	1035	72	4.80	33	80	57
VE-1S	12.5-22.5	1/12/2011	50	1050	82	6.55	22	128	25
VE-1S	12.5-22.5	1/19/2011	50	1110	80	5.65	32	92	22
VE-1S	12.5-22.5	1/26/2011	50	0945	84	6.00	23	82	24
VE-1S	12.5-22.5	1/27/2011	50	0815	62	6.10	--	50	--
VE-1S	12.5-22.5	2/2/2011	50	1125	64	5.50	--	64	29
VE-1S	12.5-22.5	2/9/2011	50	1436	85	4.55	8	66	18
VE-1S	12.5-22.5	2/17/2011	50	0820	64	4.40	43	55	6
VE-1S	12.5-22.5	2/23/2011	50	1445	69	5.70	54	71	28
VE-1S	12.5-22.5	2/28/2011	50	1105	82	5.55	41	72	18
VE-1S	12.5-22.5	3/7/2011	50	1050	98	5.40	41	59	22
VE-1S	12.5-22.5	3/14/2011	50	1525	85	5.20	30	56	19
VE-1S	12.5-22.5	4/7/2011	50	1230	81	5.10	55	58	2
VE-1S	12.5-22.5	4/11/2011	50	0725	70	5.30	59	47	10
VE-1S	12.5-22.5	4/18/2011	50	1145	70	4.60	50	49	4
VE-1S	12.5-22.5	4/28/2011	100	0951	88	3.45	32	43	1
VE-1S	12.5-22.5	5/3/2011	100	0830	84	5.70	30	70	6
VE-1S	12.5-22.5	5/10/2011	100	1400	83	5.60	29	60	3
VE-1S	12.5-22.5	5/16/2011	100	1115	86	5.75	35	59	3
VE-1S	12.5-22.5	6/6/2011	100	0935	81	5.45	34	59	16
VE-1S	12.5-22.5	6/13/2011	100	1155	83	5.40	48	60	3
VE-1S	12.5-22.5	6/20/2011	100	1450	102	5.25	42	62	4
VE-1S	12.5-22.5	6/27/2011	100	1120	92	5.40	44	63	7
VE-1S	12.5-22.5	7/5/2011	100	1055	100	5.45	37	64	6
VE-1S	12.5-22.5	7/11/2011	100	0845	74	76.0	35	46	2
VE-1S	12.5-22.5	7/18/2011	100	1010	87	5.60	43	56	4
VE-1S	12.5-22.5	7/25/2011	100	0830	92	5.65	40	49	3
VE-1S	12.5-22.5	8/1/2011	100	0735	82	5.90	50	48	4
VE-1S	12.5-22.5	8/10/2011	100	0820	73	5.55	44	51	3
VE-1S	12.5-22.5	8/15/2011	100	1100	97	5.60	45	57	9
VE-1S	12.5-22.5	8/23/2011	100	1455	108	5.75	47	62	7
VE-1S	12.5-22.5	8/30/2011	100	0815	73	5.50	44	55	8
VE-1S	12.5-22.5	9/7/2011	100	1525	107	5.40	29	78	5
VE-1S	12.5-22.5	9/12/2011	100	1005	81	5.60	48	57	11
VE-1S	12.5-22.5	9/19/2011	100	1345	92	5.70	51	64	11
VE-1S	12.5-22.5	9/26/2011	100	1155	82	5.85	52	53	13
VE-1S	12.5-22.5	10/3/2011	100	1100	88	5.80	44	60	9
VE-1S	12.5-22.5	10/10/2011	100	1115	86	5.75	46	64	9
VE-1S	12.5-22.5	10/17/2011	100	1320	87	5.85	32	58	7
VE-1S	12.5-22.5	10/24/2011	100	1135	70	6.00	51	55	10
VE-1S	12.5-22.5	10/31/2011	100	0915	70	5.95	50	56	11
VE-1S	12.5-22.5	11/7/2011	100	1115	64	6.00	47	54	8
VE-1S	12.5-22.5	11/14/2011	100	1105	81	6.00	39	56	7
VE-1S	12.5-22.5	11/21/2011	100	1405	70	6.00	49	NM	8
VE-1S	12.5-22.5	11/28/2011	100	1100	85	6.00	30	68	7
VE-1S	12.5-22.5	12/5/2011	100	0925	65	6.00	49	74	4
VE-1S	12.5-22.5	12/19/2011	100	1140	61	5.90	61	96	7
VE-1S	12.5-22.5	12/29/2011	100	1035	79	5.90	68	97	8

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-5S	12-22	6/3/2010	100	0942	87	11.47	NM	77	9,999 E
VE-5S	12-22	6/9/2010	100	1017	81	8.05	NM	83	9,999 E
VE-5S	12-22	6/14/2010	50	1445	92	5.75	NM	89	779
VE-5S	12-22	6/15/2010	50	0955	81	6.05	NM	89	840
VE-5S	12-22	6/16/2010	35	1152	84	5.35	NM	69	1165
VE-5S	12-22	6/17/2010	35	1026	84	5.70	NM	68	9,999 E
VE-5S	12-22	6/18/2010	35	1142	84	5.95	NM	69	9,999 E
VE-5S	12-22	6/19/2010	35	1019	86	5.95	NM	66	6198
VE-5S	12-22	6/20/2010	35	1021	85	6.05	NM	67	5606
VE-5S	12-22	6/23/2010	35	1016	87	6.05	NM	68	4466
VE-5S	12-22	6/30/2010	50	0955	83	6.05	NM	65	1945
VE-5S	12-22	7/7/2010	50	1715	89	6.05	NM	67	1517
VE-5S	12-22	7/14/2010	50	1217	97	6.00	NM	74	1429
VE-5S	12-22	7/20/2010	50	1109	88	6.00	NM	67	1041
VE-5S	12-22	7/23/2010	50	1203	93	6.05	NM	81	879
VE-5S	12-22	8/4/2010	50	1106	90	5.70	NM	82	733
VE-5S	12-22	8/6/2010	50	1207	91	6.00	NM	82	720
VE-5S	12-22	8/10/2010	NM	1512	95	5.85	NM	83	631
VE-5S	12-22	8/13/2010	50	1100	92	5.90	NM	81	554
VE-5S	12-22	8/17/2010	50	1640	103	6.00	20	89	549
VE-5S	12-22	8/20/2010	50	12.21	96	5.85	22	85	511
VE-5S	12-22	8/24/2010	50	1614	99	5.85	14	88	437
VE-5S	12-22	9/1/2010	50	0952	76	5.95	44	62	368
VE-5S	12-22	9/8/2010	50	1502	77	6.00	40	62	307
VE-5S	12-22	9/10/2010	NM	1330	87	5.85	26	72	276
VE-5S	12-22	9/15/2010	NM	1458	94	5.88	25	78	273
VE-5S	12-22	9/22/2010	NM	1302	73	5.85	53	62	239
VE-5S	12-22	9/24/2010	NM	1104	96	5.70	27	87	202
VE-5S	12-22	9/28/2010	50	1218	92	5.70	31	79	191
VE-5S	12-22	10/6/2010	50	1127	62	5.70	82	83	204
VE-5S	12-22	10/8/2010	NM	1311	87	5.85	27	82	178
VE-5S	12-22	10/12/2010	50	1531	88	5.90	37	75	144
VE-5S	12-22	10/15/2010	50	1308	68	5.90	72	62	181
VE-5S	12-22	10/19/2010	50	1200	73	5.90	65	67	173
VE-5S	12-22	10/22/2010	50	1235	70	5.90	61	98	170
VE-5S	12-22	10/26/2010	50	0810	73	6.60	55	65	175
VE-5S	12-22	10/29/2010	50	1228	87	7.25	25	67	115
VE-5S	12-22	11/3/2010	50	0837	77	5.55	33	63	118
VE-5S	12-22	11/5/2010	50	0905	71	5.35	43	62	118
VE-5S	12-22	11/9/2010	50	1355	79	6.70	21	58	113
VE-5S	12-22	11/12/2010	50	0730	52	7.05	46	74	127
VE-5S	12-22	11/16/2010	50	0752	57	5.35	58	65	115
VE-5S	12-22	11/19/2010	50	0655	73	5.40	55	68	102
VE-5S	12-22	11/23/2010	50	1500	67	5.10	37	90	108
VE-5S	12-22	11/26/2010	50	0925	70	5.10	47	90	130
VE-5S	12-22	12/1/2010	50	1228	71	6.10	57	69	78
VE-5S	12-22	12/3/2010	50	0755	58	6.75	47	60	123
VE-5S	12-22	12/10/2010	50	0850	61	4.90	62	78	92
VE-5S	12-22	12/14/2010	NM	1221	64	5.25	69	67	88
VE-5S	12-22	12/17/2010	50	0823	61	5.20	68	87	97
VE-5S	12-22	12/21/2010	50	1230	69	6.30	58	186	NM
VE-5S	12-22	12/24/2010	50	50	54	6.65	78	113	NM
VE-5S	12-22	12/28/2010	50	1058	69	4.65	41	146	NM
VE-5S	12-22	12/30/2010	NM	1210	62	5.70	18	150	101

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-5S	12-22	1/6/2011	50	1119	77	5.30	22	133	58
VE-5S	12-22	1/12/2011	50	1105	80	7.85	22	105	30
VE-5S	12-22	1/19/2011	50	1040	86	4.90	28	89	32
VE-5S	12-22	1/26/2011	50	1030	83	4.75	20	93	31
VE-5S	12-22	1/27/2011	50	0833	70	3.85	--	70	--
VE-5S	12-22	2/23/2011	50	1513	66	5.20	41	65	24
VE-5S	12-22	2/28/2011	50	1110	78	4.70	49	81	14
VE-5S	12-22	3/7/2011	50	1120	82	5.40	48	52	22
VE-5S	12-22	3/14/2011	50	1530	81	4.40	33	74	25
VE-5S	12-22	4/7/2011	50	1235	76	4.85	56	83	3
VE-5S	12-22	4/11/2011	50	0730	80	5.70	63	91	18
VE-5S	12-22	4/18/2011	50	1150	69	5.35	48	99	14
VE-5S	12-22	4/28/2011	100	0953	95	3.50	65	72	1
VE-5S	12-22	5/3/2011	100	0835	90	5.75	31	125	25
VE-5S	12-22	5/10/2011	100	1410	83	5.65	30	115	15
VE-5S	12-22	5/16/2011	100	1120	80	5.80	37	115	13
VE-5S	12-22	6/6/2011	100	1005	79	5.45	35	106	54
VE-5S	12-22	6/13/2011	100	1225	89	5.45	48	121	15
VE-5S	12-22	6/20/2011	100	1525	96	5.30	43	119	14
VE-5S	12-22	6/27/2011	100	1150	100	5.45	42	138	15
VE-5S	12-22	7/5/2011	100	1125	103	5.55	36	135	32
VE-5S	12-22	7/11/2011	100	0915	74	74.0	35	107	21
VE-5S	12-22	7/18/2011	100	1110	97	5.70	41	135	22
VE-5S	12-22	7/25/2011	100	0900	94	5.70	39	120	20
VE-5S	12-22	8/1/2011	100	0805	84	5.95	48	118	26
VE-5S	12-22	8/10/2011	100	0850	74	5.60	45	96	26
VE-5S	12-22	8/15/2011	100	1130	98	5.65	45	115	16
VE-5S	12-22	8/23/2011	100	1525	99	5.80	48	114	2
VE-5S	12-22	8/30/2011	100	0845	73	5.60	43	91	23
VE-5S	12-22	9/7/2011	100	1555	106	5.45	34	118	16
VE-5S	12-22	9/12/2011	100	1035	91	5.70	45	107	19
VE-5S	12-22	9/19/2011	100	1415	94	5.75	51	101	16
VE-5S	12-22	9/26/2011	100	1225	80	5.90	53	91	16
VE-5S	12-22	10/3/2011	100	1135	90	5.85	47	101	14
VE-5S	12-22	10/10/2011	100	1145	87	5.80	49	105	15
VE-5S	12-22	10/17/2011	100	1350	90	5.80	38	96	12
VE-5S	12-22	10/24/2011	100	1205	71	6.05	51	92	15
VE-5S	12-22	10/31/2011	100	0945	76	6.00	48	101	15
VE-5S	12-22	11/7/2011	100	1145	70	6.10	47	105	12
VE-5S	12-22	11/14/2011	100	1135	78	6.10	40	113	18
VE-5S	12-22	11/21/2011	100	1435	--	6.00	--	NM	8
VE-5S	12-22	11/28/2011	100	1130	87	6.05	36	138	16
VE-5S	12-22	12/5/2011	100	0955	72	6.05	49	126	12
VE-5S	12-22	12/19/2011	100	1210	62	5.90	53	121	11
VE-5S	12-22	12/29/2011	100	1105	78	6.00	71	137	16

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-6S	10-30	4/28/2011	100	0954	93	3.50	64	101	0
VE-6S	10-30	5/3/2011	100	0905	89	5.70	13	176	7
VE-6S	10-30	5/10/2011	100	1520	88	5.60	29	205	3
VE-6S	10-30	5/16/2011	100	1125	83	5.75	23	210	5
VE-6S	10-30	6/6/2011	100	1010	81	5.45	32	194	26
VE-6S	10-30	6/13/2011	100	1230	93	5.40	28	202	7
VE-6S	10-30	6/20/2011	100	1530	95	5.20	42	195	9
VE-6S	10-30	6/27/2011	100	1155	100	5.40	37	212	27
VE-6S	10-30	7/5/2011	100	1130	102	5.45	36	209	28
VE-6S	10-30	7/11/2011	100	0920	77	76.0	40	212	0
VE-6S	10-30	7/18/2011	100	1120	96	5.60	25	225	14
VE-6S	10-30	7/25/2011	100	0905	82	5.70	44	220	3
VE-6S	10-30	8/1/2011	100	0810	86	5.85	48	232	15
VE-6S	10-30	8/10/2011	100	0855	75	5.60	45	221	13
VE-6S	10-30	8/15/2011	100	1135	97	5.60	30	224	13
VE-6S	10-30	8/23/2011	100	1530	98	5.75	27	225	16
VE-6S	10-30	8/30/2011	100	0850	75	5.50	61	216	12
VE-6S	10-30	9/7/2011	100	1600	107	5.40	30	218	8
VE-6S	10-30	9/12/2011	100	1040	91	5.65	45	114	13
VE-6S	10-30	9/19/2011	100	1420	94	5.70	35	227	11
VE-6S	10-30	9/26/2011	100	1230	80	5.85	44	231	12
VE-6S	10-30	10/3/2011	100	1140	92	5.80	47	232	8
VE-6S	10-30	10/10/2011	100	1150	89	5.75	32	245	11
VE-6S	10-30	10/17/2011	100	1355	91	5.85	38	108	8
VE-6S	10-30	10/24/2011	100	1210	72	6.00	63	245	12
VE-6S	10-30	10/31/2011	100	0950	80	6.00	46	240	12
VE-6S	10-30	11/7/2011	100	1150	71	6.05	48	235	10
VE-6S	10-30	11/14/2011	100	1140	80	6.00	60	235	10
VE-6S	10-30	11/21/2011	100	1440	--	6.00	--	NM	6
VE-6S	10-30	11/28/2011	100	1135	84	6.00	21	240	14
VE-6S	10-30	12/5/2011	100	1000	76	5.95	49	240	10
VE-6S	10-30	12/19/2011	100	1215	63	5.90	55	212	9
VE-6S	10-30	12/29/2011	100	1110	78	6.00	72	126	12
VE-8S	10-30	6/3/2010	100	0940	87	11.47	NM	128	2407
VE-8S	10-30	6/9/2010	100	1013	79	8.45	NM	131	9,999 E
VE-8S	10-30	6/14/2010	35	1440	92	3.95	NM	102	641
VE-8S	10-30	6/15/2010	35	0955	82	4.35	NM	99	72
VE-8S	10-30	6/16/2010	35	1151	85	4.55	NM	95	1069
VE-8S	10-30	6/17/2010	35	1025	85	4.55	NM	95	9,999 E
VE-8S	10-30	6/18/2010	35	1140	85	4.55	NM	94	9,999 E
VE-8S	10-30	6/19/2010	35	1016	85	4.45	NM	99	9547
VE-8S	10-30	6/20/2010	35	1020	85	4.60	NM	96	9065
VE-8S	10-30	6/23/2010	35	1030	88	4.55	NM	96	6689
VE-8S	10-30	6/30/2010	50	0948	83	4.60	NM	93	2813
VE-8S	10-30	7/7/2010	50	1718	87	4.60	NM	95	2507
VE-8S	10-30	7/14/2010	60	1400	96	4.50	NM	98	2206
VE-8S	10-30	7/20/2010	50	1108	88	4.55	NM	93	1905
VE-8S	10-30	7/23/2010	50	1209	94	4.60	NM	118	1737
VE-8S	10-30	8/4/2010	50	1109	91	4.55	NM	102	1504
VE-8S	10-30	8/6/2010	40	1211	92	4.60	NM	103	1599
VE-8S	10-30	8/10/2010	NM	1514	94	5.30	NM	119	1498
VE-8S	10-30	8/13/2010	50	1106	95	5.10	NM	129	1390

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-8S	10-30	8/17/2010	50	1680	104	5.25	15	151	1634
VE-8S	10-30	8/20/2010	50	1223	97	4.95	21	126	1432
VE-8S	10-30	8/24/2010	50	1619	100	4.80	11	128	1373
VE-8S	10-30	9/1/2010	50	0957	81	4.90	39	101	1261
VE-8S	10-30	9/8/2010	50	1451	77	4.90	42	92	1020
VE-8S	10-30	9/10/2010	NM	1323	86	4.90	30	112	974
VE-8S	10-30	9/15/2010	NM	1454	93	5.00	24	125	1144
VE-8S	10-30	9/22/2010	NM	1258	73	4.75	54	96	1105
VE-8S	10-30	9/24/2010	NM	1157	94	4.75	28	132	807
VE-8S	10-30	9/28/2010	50	1215	93	4.75	30	127	776
VE-8S	10-30	10/6/2010	50	1125	63	4.90	81	116	675
VE-8S	10-30	10/8/2010	NM	1313	88	4.95	26	127	752
VE-8S	10-30	10/12/2010	50	1529	88	4.95	37	115	697
VE-8S	10-30	10/15/2010	50	1305	69	4.75	70	63	827
VE-8S	10-30	10/19/2010	50	1155	72	4.70	68	104	789
VE-8S	10-30	10/22/2010	50	1230	69	4.80	65	108	780
VE-8S	10-30	10/26/2010	50	0805	71	4.90	58	93	786
VE-8S	10-30	10/29/2010	50	1225	86	4.80	26	135	645
VE-8S	10-30	11/3/2010	50	0832	76	4.75	35	108	662
VE-8S	10-30	11/5/2010	50	0900	72	4.70	42	104	682
VE-8S	10-30	11/9/2010	50	1340	78	4.70	24	117	655
VE-8S	10-30	11/12/2010	50	0725	52	4.75	46	71	775
VE-8S	10-30	11/16/2010	50	0750	57	4.75	57	80	590
VE-8S	10-30	11/19/2010	50	0650	73	4.70	56	108	590
VE-8S	10-30	11/23/2010	60	1510	68	4.80	42	95	640
VE-8S	10-30	11/26/2010	60	0955	70	4.80	40	94	704
VE-8S	10-30	12/1/2010	60	1222	71	5.55	55	110	492
VE-8S	10-30	12/3/2010	60	0747	58	5.35	45	88	533
VE-8S	10-30	12/10/2010	60	0845	61	4.20	63	103	489
VE-8S	10-30	12/14/2010	NM	1213	62	4.40	71	92	544
VE-8S	10-30	12/17/2010	60	0817	60	4.50	65	94	537
VE-8S	10-30	12/21/2010	60	1223	71	5.45	58	116	NM
VE-8S	10-30	12/24/2010	60	60	54	5.40	75	101	NM
VE-8S	10-30	12/28/2010	50	1053	70	4.80	42	108	NM
VE-8S	10-30	12/30/2010	NM	1155	62	4.10	19	105	480
VE-8S	10-30	1/6/2011	50	1115	78	4.95	24	117	414
VE-8S	10-30	1/12/2011	50	1103	80	5.75	22	118	191
VE-8S	10-30	1/19/2011	50	1045	83	5.05	31	129	182
VE-8S	10-30	1/26/2011	50	1016	86	5.40	21	124	131
VE-8S	10-30	1/27/2011	50	0831	66	4.30	--	67	--
VE-8S	10-30	2/23/2011	50	1508	66	5.40	39	104	71
VE-8S	10-30	2/28/2011	50	1117	78	5.30	49	97	75
VE-8S	10-30	3/7/2011	50	1115	83	5.20	48	96	216
VE-8S	10-30	3/14/2011	50	1535	81	4.95	32	93	161
VE-8S	10-30	4/7/2011	50	1240	76	5.30	56	103	23
VE-8S	10-30	4/11/2011	50	0735	79	5.70	57	109	169
VE-8S	10-30	4/18/2011	50	1155	69	5.50	48	106	95
VE-8S	10-30	4/28/2011	100	0953	94	3.50	58	77	47
VE-8S	10-30	5/3/2011	100	0840	90	5.70	31	127	193
VE-8S	10-30	5/10/2011	100	1420	83	5.65	30	112	155
VE-8S	10-30	5/16/2011	100	1130	79	5.80	38	114	121
VE-8S	10-30	6/6/2011	100	1000	79	5.45	35	108	535
VE-8S	10-30	6/13/2011	100	1220	89	5.45	47	115	135
VE-8S	10-30	6/20/2011	100	1520	96	5.30	43	117	156

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-8S	10-30	6/27/2011	100	1145	100	5.40	42	121	116
VE-8S	10-30	7/5/2011	100	1120	103	5.50	36	130	427
VE-8S	10-30	7/11/2011	100	0910	74	76.0	35	110	354
VE-8S	10-30	7/18/2011	100	1100	96	5.65	42	131	420
VE-8S	10-30	7/25/2011	100	0855	94	5.70	39	121	360
VE-8S	10-30	8/1/2011	100	0800	84	5.90	49	131	393
VE-8S	10-30	8/10/2011	100	0845	74	5.65	44	116	818
VE-8S	10-30	8/15/2011	100	1125	97	5.65	45	123	340
VE-8S	10-30	8/23/2011	100	1520	99	5.80	49	139	365
VE-8S	10-30	8/30/2011	100	0840	74	5.60	43	113	496
VE-8S	10-30	9/7/2011	100	1550	106	5.45	34	160	30
VE-8S	10-30	9/12/2011	100	1030	91	5.70	45	127	397
VE-8S	10-30	9/19/2011	100	1410	94	5.75	51	134	435
VE-8S	10-30	9/26/2011	100	1220	80	5.85	52	127	440
VE-8S	10-30	10/3/2011	100	1130	89	5.85	46	137	456
VE-8S	10-30	10/10/2011	100	1140	87	5.80	49	141	427
VE-8S	10-30	10/17/2011	100	1345	89	5.85	38	135	375
VE-8S	10-30	10/24/2011	100	1200	71	6.05	51	134	445
VE-8S	10-30	10/31/2011	100	0940	74	6.00	49	134	365
VE-8S	10-30	11/7/2011	100	1140	69	6.10	47	137	362
VE-8S	10-30	11/14/2011	100	1130	78	6.10	40	141	341
VE-8S	10-30	11/21/2011	100	1430	--	6.05	--	NM	401
VE-8S	10-30	11/28/2011	100	1125	87	6.10	36	152	377
VE-8S	10-30	12/5/2011	100	0950	70	6.00	49	133	368
VE-8S	10-30	12/19/2011	100	1205	62	5.95	54	132	404
VE-8S	10-30	12/29/2011	100	1100	78	6.00	71	150	329
VE-9S	10-30	6/3/2010	100	0937	83	11.47	NM	104	3942
VE-9S	10-30	6/9/2010	100	1007	78	7.40	NM	92	9978
VE-9S	10-30	6/14/2010	50	1436	92	5.90	NM	100	415
VE-9S	10-30	6/15/2010	50	0954	82	6.00	NM	93	400
VE-9S	10-30	6/16/2010	40	1150	87	8.85	NM	102	479
VE-9S	10-30	6/17/2010	40	1022	84	8.80	NM	98	2399
VE-9S	10-30	6/18/2010	40	1138	83	8.80	NM	99	2017
VE-9S	10-30	6/19/2010	40	1011	87	8.80	NM	99	1653
VE-9S	10-30	6/20/2010	40	1016	84	8.70	NM	100	1308
VE-9S	10-30	6/23/2010	40	0958	87	8.80	NM	102	1356
VE-9S	10-30	6/30/2010	60	0945	81	8.70	NM	99	650
VE-9S	10-30	7/7/2010	60	1725	87	8.65	NM	107	473
VE-9S	10-30	7/14/2010	60	1355	96	8.35	NM	109	422
VE-9S	10-30	7/20/2010	60	1105	89	8.35	NM	106	316
VE-9S	10-30	7/23/2010	60	1218	96	8.35	NM	127	260
VE-9S	10-30	8/4/2010	60	1113	90	8.00	NM	113	231
VE-9S	10-30	8/6/2010	60	1222	94	8.20	NM	116	224
VE-9S	10-30	8/10/2010	NM	1523	96	8.00	NM	129	193
VE-9S	10-30	8/13/2010	60	1114	94	7.95	NM	126	164
VE-9S	10-30	8/17/2010	60	1659	98	7.90	17	156	184
VE-9S	10-30	8/20/2010	60	1228	95	7.80	22	121	153
VE-9S	10-30	8/24/2010	60	1623	100	7.60	13	136	129
VE-9S	10-30	9/1/2010	50	1003	85	7.80	31	107	118
VE-9S	10-30	9/8/2010	50	1435	79	7.75	38	97	86

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-9S	10-30	9/10/2010	NM	1316	87	7.70	29	119	75
VE-9S	10-30	9/15/2010	NM	1449	93	7.80	25	130	91
VE-9S	10-30	9/22/2010	NM	1250	72	7.65	56	103	75
VE-9S	10-30	9/24/2010	NM	1155	92	7.65	29	133	59
VE-9S	10-30	9/28/2010	50	1207	93	7.60	30	128	63
VE-9S	10-30	10/6/2010	50	1119	63	7.90	80	124	44
VE-9S	10-30	10/8/2010	NM	1317	88	7.70	29	131	60
VE-9S	10-30	10/12/2010	50	1522	57	7.70	35	118	58
VE-9S	10-30	10/15/2010	50	1300	68	7.70	71	98	68
VE-9S	10-30	10/19/2010	50	1205	72	7.65	66	110	66
VE-9S	10-30	10/22/2010	50	1220	69	7.90	62	115	66
VE-9S	10-30	10/26/2010	50	0758	70	7.80	59	106	76
VE-9S	10-30	10/29/2010	50	1220	86	7.95	24	134	64
VE-9S	10-30	11/3/2010	50	0822	77	5.00	31	108	71
VE-9S	10-30	11/5/2010	50	0850	72	8.15	41	110	74
VE-9S	10-30	11/9/2010	50	1325	77	8.05	24	115	72
VE-9S	10-30	11/12/2010	50	0710	51	8.35	45	75	79
VE-9S	10-30	11/16/2010	50	0745	56	8.20	57	81	73
VE-9S	10-30	11/19/2010	50	0640	73	8.10	37	117	67
VE-9S	10-30	11/23/2010	60	1518	67	8.45	35	117	83
VE-9S	10-30	11/26/2010	60	0945	70	8.45	37	119	86
VE-9S	10-30	12/1/2010	60	1212	70	8.70	63	120	63
VE-9S	10-30	12/3/2010	60	0738	58	8.70	45	101	72
VE-9S	10-30	12/10/2010	60	0835	64	8.50	56	107	143
VE-9S	10-30	12/14/2010	NM	1155	62	8.05	75	99	77
VE-9S	10-30	12/17/2010	60	0805	59	8.10	65	112	83
VE-9S	10-30	12/21/2010	60	1212	74	8.85	58	110	NM
VE-9S	10-30	12/24/2010	60	60	55	9.00	70	101	NM
VE-9S	10-30	12/28/2010	60	1043	72	8.45	39	109	NM
VE-9S	10-30	12/30/2010	NM	1154	65	6.90	15	92	140
VE-9S	10-30	1/6/2011	50	1101	78	6.25	20	94	108
VE-9S	10-30	1/12/2011	50	1057	82	5.60	18	NM	57
VE-9S	10-30	1/19/2011	50	1055	78	5.90	36	113	49
VE-9S	10-30	1/26/2011	50	1007	85	6.05	21	113	55
VE-9S	10-30	1/27/2011	50	0826	64	6.40	--	61	--
VE-9S	10-30	2/2/2011	50	1140	65	5.60	--	124	52
VE-9S	10-30	2/9/2011	50	1500	85	4.90	4	125	35
VE-9S	10-30	2/17/2011	50	0910	72	5.30	24	NM	10
VE-9S	10-30	2/23/2011	50	1458	66	5.40	40	120	60
VE-9S	10-30	2/28/2011	50	1123	79	5.45	47	104	32
VE-9S	10-30	3/7/2011	50	1105	86	5.20	47	82	54
VE-9S	10-30	3/14/2011	50	1540	82	4.95	32	67	37
VE-9S	10-30	4/7/2011	50	1245	78	5.90	56	73	4
VE-9S	10-30	4/11/2011	50	0740	78	6.00	57	74	33
VE-9S	10-30	4/18/2011	50	1200	69	6.00	48	73	17
VE-9S	10-30	4/28/2011	100	0952	87	3.45	35	55	2
VE-9S	10-30	5/3/2011	100	0845	87	5.70	31	86	25
VE-9S	10-30	5/10/2011	100	1430	85	5.60	29	69	15
VE-9S	10-30	5/16/2011	100	1135	80	5.75	37	64	13
VE-9S	10-30	6/6/2011	100	0950	79	5.45	35	69	73
VE-9S	10-30	6/13/2011	100	1210	88	5.40	47	75	16
VE-9S	10-30	6/20/2011	100	1505	96	5.25	43	75	20
VE-9S	10-30	6/27/2011	100	1135	99	5.40	43	80	67
VE-9S	10-30	7/5/2011	100	1110	102	5.45	36	77	54

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-9S	10-30	7/11/2011	100	0900	74	78.0	35	51	31
VE-9S	10-30	7/18/2011	100	1040	93	5.60	42	71	30
VE-9S	10-30	7/25/2011	100	0845	93	5.70	40	66	27
VE-9S	10-30	8/1/2011	100	0750	83	5.90	49	63	33
VE-9S	10-30	8/10/2011	100	0835	73	5.60	44	53	42
VE-9S	10-30	8/15/2011	100	1115	96	5.65	46	72	27
VE-9S	10-30	8/23/2011	100	1510	100	5.70	49	80	34
VE-9S	10-30	8/30/2011	100	0830	74	5.50	43	65	34
VE-9S	10-30	9/7/2011	100	1540	106	5.40	32	90	18
VE-9S	10-30	9/12/2011	100	1020	85	5.60	46	66	27
VE-9S	10-30	9/19/2011	100	1400	94	5.75	51	94	19
VE-9S	10-30	9/26/2011	100	1210	80	5.85	52	89	22
VE-9S	10-30	10/3/2011	100	1115	88	5.85	46	101	14
VE-9S	10-30	10/10/2011	100	1130	87	5.80	48	87	22
VE-9S	10-30	10/17/2011	100	1335	89	5.85	34	75	16
VE-9S	10-30	10/24/2011	100	1150	71	6.00	51	69	25
VE-9S	10-30	10/31/2011	100	0930	72	6.00	50	71	24
VE-9S	10-30	11/7/2011	100	1130	68	6.10	47	70	20
VE-9S	10-30	11/14/2011	100	1120	80	6.05	39	73	18
VE-9S	10-30	11/21/2011	100	1420	--	6.00	--	NM	15
VE-9S	10-30	11/28/2011	100	1115	86	6.00	33	90	18
VE-9S	10-30	12/5/2011	100	0940	67	5.95	48	123	17
VE-9S	10-30	12/19/2011	100	1155	61	5.90	58	119	19
VE-9S	10-30	12/29/2011	100	1050	79	6.00	70	111	20
VE-10S	10-30	6/3/2010	100	0935	84	11.47	NM	62	4111
VE-10S	10-30	6/9/2010	100	1003	78	7.20	NM	75	9,999 E
VE-10S	10-30	6/14/2010	50	1435	93	5.75	NM	92	635
VE-10S	10-30	6/15/2010	50	0954	84	6.05	NM	94	674
VE-10S	10-30	6/16/2010	35	1149	88	4.55	NM	70	904
VE-10S	10-30	6/17/2010	35	1018	84	4.45	NM	68	7278
VE-10S	10-30	6/18/2010	35	1137	83	4.65	NM	66	5780
VE-10S	10-30	6/19/2010	35	1010	85	4.60	NM	68	4576
VE-10S	10-30	6/20/2010	35	1015	83	4.70	NM	66	4065
VE-10S	10-30	6/23/2010	35	1030	87	4.90	NM	68	3547
VE-10S	10-30	6/30/2010	50	0940	81	5.10	NM	63	1479
VE-10S	10-30	7/7/2010	50	1728	87	5.35	NM	66	1164
VE-10S	10-30	7/14/2010	50	1351	97	5.30	NM	69	1109
VE-10S	10-30	7/20/2010	40	1103	89	5.65	NM	63	946
VE-10S	10-30	7/23/2010	50	1222	93	5.85	NM	73	834
VE-10S	10-30	8/4/2010	50	1119	91	5.55	NM	58	745
VE-10S	10-30	8/6/2010	50	1228	89	5.50	NM	62	776
VE-10S	10-30	8/10/2010	NM	1528	95	5.45	NM	78	696
VE-10S	10-30	8/13/2010	50	1118	91	5.65	NM	61	604
VE-10S	10-30	8/17/2010	50	1705	97	5.65	19	70	608
VE-10S	10-30	8/20/2010	50	1230	95	5.40	22	65	544
VE-10S	10-30	8/24/2010	50	1629	100	5.70	13	69	496
VE-10S	10-30	9/1/2010	40	1010	85	6.00	32	57	471
VE-10S	10-30	9/8/2010	40	1428	79	5.95	40	55	355
VE-10S	10-30	9/10/2010	NM	1313	85	5.85	31	59	330
VE-10S	10-30	9/15/2010	NM	1446	92	5.81	25	72	326
VE-10S	10-30	9/22/2010	NM	1215	74	5.25	54	57	247
VE-10S	10-30	9/24/2010	NM	1152	92	5.00	29	74	198

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-10S	10-30	9/28/2010	40	1200	93	4.45	30	76	186
VE-10S	10-30	10/6/2010	40	1115	63	7.55	81	67	19
VE-10S	10-30	10/8/2010	NM	1319	88	6.95	30	60	69
VE-10S	10-30	10/12/2010	40	1519	88	5.40	41	62	173
VE-10S	10-30	10/15/2010	40	1256	71	5.20	69	56	249
VE-10S	10-30	10/19/2010	40	1210	71	4.80	72	60	223
VE-10S	10-30	10/22/2010	40	1215	70	5.80	64	60	208
VE-10S	10-30	10/26/2010	40	0755	68	6.40	63	59	195
VE-10S	10-30	10/29/2010	40	1223	86	5.85	24	72	186
VE-10S	10-30	11/3/2010	40	0820	78	5.35	31	100	189
VE-10S	10-30	11/5/2010	40	0845	72	5.35	43	58	189
VE-10S	10-30	11/9/2010	40	1320	78	5.15	23	70	185
VE-10S	10-30	11/12/2010	40	0700	51	5.10	47	85	193
VE-10S	10-30	11/16/2010	40	0742	57	4.75	57	69	178
VE-10S	10-30	11/19/2010	40	0635	73	4.70	55	67	151
VE-10S	10-30	11/23/2010	50	1525	64	4.90	40	67	172
VE-10S	10-30	11/26/2010	50	0940	71	4.90	34	64	169
VE-10S	10-30	12/1/2010	50	1207	71	4.95	51	67	133
VE-10S	10-30	12/3/2010	50	0734	59	5.20	42	176	130
VE-10S	10-30	12/10/2010	50	0830	65	4.90	56	115	121
VE-10S	10-30	12/14/2010	NM	1148	60	4.95	75	NM	133
VE-10S	10-30	12/17/2010	50	0800	59	5.20	67	108	132
VE-10S	10-30	12/21/2010	50	1205	72	5.75	62	96	NM
VE-10S	10-30	12/24/2010	50	50	56	6.40	65	214	NM
VE-10S	10-30	12/28/2010	50	1037	73	5.90	37	171	NM
VE-10S	10-30	12/30/2010	NM	1152	64	4.65	15	121	159
VE-10S	10-30	1/6/2011	50	1058	79	5.25	21	88	99
VE-10S	10-30	1/12/2011	50	1055	83	7.20	17	NM	54
VE-10S	10-30	1/19/2011	50	1100	77	5.75	35	85	46
VE-10S	10-30	1/26/2011	50	1002	86	6.05	21	101	50
VE-10S	10-30	1/27/2011	50	0823	65	6.00	--	68	--
VE-10S	10-30	2/2/2011	50	1135	66	5.40	--	55	50
VE-10S	10-30	2/9/2011	50	1510	85	4.25	4	91	38
VE-10S	10-30	2/17/2011	50	0905	74	4.15	24	58	6
VE-10S	10-30	2/23/2011	50	1453	66	5.65	40	119	24
VE-10S	10-30	2/28/2011	50	1135	81	5.45	47	92	14
VE-10S	10-30	3/7/2011	50	1100	90	5.30	46	58	40
VE-10S	10-30	3/14/2011	50	1545	83	5.05	31	55	29
VE-10S	10-30	4/7/2011	50	1250	80	5.85	56	66	3
VE-10S	10-30	4/11/2011	50	0745	78	5.90	58	57	89
VE-10S	10-30	4/18/2011	50	1205	69	5.60	48	62	14
VE-10S	10-30	4/28/2011	100	0952	80	3.45	32	48	1
VE-10S	10-30	5/3/2011	100	0850	86	5.70	30	65	21
VE-10S	10-30	5/10/2011	100	1440	84	5.60	29	54	16
VE-10S	10-30	5/16/2011	100	1140	82	5.75	36	47	14
VE-10S	10-30	6/6/2011	100	0945	80	5.40	35	56	75
VE-10S	10-30	6/13/2011	100	1205	87	5.40	47	54	15
VE-10S	10-30	6/20/2011	100	1500	97	5.25	43	58	19
VE-10S	10-30	6/27/2011	100	1130	97	5.40	43	54	69
VE-10S	10-30	7/5/2011	100	1105	101	5.45	37	56	56
VE-10S	10-30	7/11/2011	100	0855	74	78.0	35	38	38
VE-10S	10-30	7/18/2011	100	1030	90	5.60	43	48	33
VE-10S	10-30	7/25/2011	100	0840	92	5.65	40	42	30
VE-10S	10-30	8/1/2011	100	0745	83	5.90	49	41	39

Table D2
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Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-10S	10-30	8/10/2011	100	0830	72	5.55	44	41	51
VE-10S	10-30	8/15/2011	100	1100	97	5.65	45	51	34
VE-10S	10-30	8/23/2011	100	1505	102	5.70	49	47	40
VE-10S	10-30	8/30/2011	100	0825	74	5.50	43	48	46
VE-10S	10-30	9/7/2011	100	1535	106	5.40	32	65	23
VE-10S	10-30	9/12/2011	100	1015	84	5.65	47	47	41
VE-10S	10-30	9/19/2011	100	1355	93	5.75	51	53	36
VE-10S	10-30	9/26/2011	100	1205	80	5.85	52	47	46
VE-10S	10-30	10/3/2011	100	1110	87	5.80	45	53	31
VE-10S	10-30	10/10/2011	100	1125	87	5.75	47	58	34
VE-10S	10-30	10/17/2011	100	1330	87	5.85	34	53	23
VE-10S	10-30	10/24/2011	100	1145	71	6.00	51	45	37
VE-10S	10-30	10/31/2011	100	0925	71	5.95	51	47	36
VE-10S	10-30	11/7/2011	100	1125	67	6.00	47	47	29
VE-10S	10-30	11/14/2011	100	1115	80	6.00	39	49	28
VE-10S	10-30	11/21/2011	100	1415	--	6.00	--	NM	20
VE-10S	10-30	11/28/2011	100	1110	86	6.00	32	60	26
VE-10S	10-30	12/5/2011	100	0935	68	6.00	47	70	28
VE-10S	10-30	12/19/2011	100	1150	62	5.95	59	65	28
VE-10S	10-30	12/29/2011	100	1045	79	6.00	69	107	28
VE-11S	10-30	6/3/2010	100	0939	88	11.47	NM	48	2426
VE-11S	10-30	6/9/2010	100	1011	78	7.00	NM	74	4823
VE-11S	10-30	6/14/2010	50	1436	92	5.75	NM	98	279
VE-11S	10-30	6/15/2010	50	0955	82	6.25	NM	105	341
VE-11S	10-30	6/16/2010	35	1150	86	6.70	NM	96	477
VE-11S	10-30	6/17/2010	35	1024	84	6.85	NM	96	3558
VE-11S	10-30	6/18/2010	35	1139	84	6.60	NM	95	3589
VE-11S	10-30	6/19/2010	35	1014	88	6.60	NM	99	3397
VE-11S	10-30	6/20/2010	35	1018	84	6.10	NM	97	3337
VE-11S	10-30	6/23/2010	35	1020	88	6.65	NM	97	3114
VE-11S	10-30	6/30/2010	50	0943	83	5.00	NM	98	1743
VE-11S	10-30	7/7/2010	50	1721	86	6.10	NM	101	1560
VE-11S	10-30	7/14/2010	50	1357	96	6.05	NM	101	1376
VE-11S	10-30	7/20/2010	50	1106	89	5.85	NM	99	1075
VE-11S	10-30	7/23/2010	60	1213	10	5.40	NM	111	917
VE-11S	10-30	8/4/2010	50	1125	93	5.35	NM	106	795
VE-11S	10-30	8/6/2010	50	1217	93	5.20	NM	108	810
VE-11S	10-30	8/10/2010	NM	1520	96	6.05	NM	121	717
VE-11S	10-30	8/13/2010	50	1110	95	5.75	NM	119	628
VE-11S	10-30	8/17/2010	50	1653	101	5.85	16	124	680
VE-11S	10-30	8/20/2010	50	1226	96	5.60	42	120	524
VE-11S	10-30	8/24/2010	50	1621	100	5.45	11	142	516
VE-11S	10-30	9/1/2010	50	1015	84	5.45	34	108	495
VE-11S	10-30	9/8/2010	50	1442	77	5.45	40	96	410
VE-11S	10-30	9/10/2010	NM	1318	86	5.40	26	110	355
VE-11S	10-30	9/15/2010	NM	1451	93	5.59	25	123	385
VE-11S	10-30	9/22/2010	NM	1255	73	5.30	54	104	349
VE-11S	10-30	9/24/2010	NM	1059	91	5.30	31	129	265
VE-11S	10-30	9/28/2010	50	1211	92	5.30	30	123	270
VE-11S	10-30	10/6/2010	50	1122	63	5.45	81	126	268

Table D2
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VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-11S	10-30	10/8/2010	NM	1315	88	5.35	25	119	267
VE-11S	10-30	10/12/2010	50	1525	86	5.30	38	109	259
VE-11S	10-30	10/15/2010	50	1302	69	5.30	68	46	296
VE-11S	10-30	10/19/2010	50	1150	72	5.25	67	110	288
VE-11S	10-30	10/22/2010	50	1225	69	5.30	64	119	293
VE-11S	10-30	10/26/2010	50	0800	70	5.20	60	103	312
VE-11S	10-30	10/29/2010	50	1216	85	5.35	25	124	259
VE-11S	10-30	11/3/2010	50	0829	76	5.30	36	101	271
VE-11S	10-30	11/5/2010	50	0855	72	5.35	42	109	298
VE-11S	10-30	11/9/2010	50	1335	78	5.35	23	115	285
VE-11S	10-30	11/12/2010	50	0720	52	5.50	45	89	341
VE-11S	10-30	11/16/2010	50	0748	57	5.45	57	81	328
VE-11S	10-30	11/19/2010	50	0645	72	5.40	88	122	287
VE-11S	10-30	11/23/2010	60	1515	67	5.40	35	103	355
VE-11S	10-30	11/26/2010	60	0950	71	5.70	39	102	398
VE-11S	10-30	12/1/2010	60	1217	70	5.85	68	126	275
VE-11S	10-30	12/3/2010	60	0742	59	5.65	45	100	296
VE-11S	10-30	12/10/2010	60	0840	62	5.50	60	116	459
VE-11S	10-30	12/14/2010	NM	1205	63	5.55	71	96	323
VE-11S	10-30	12/17/2010	60	0810	60	5.50	64	110	322
VE-11S	10-30	12/21/2010	60	1218	74	5.65	54	116	NM
VE-11S	10-30	12/24/2010	60	60	55	5.30	72	116	NM
VE-11S	10-30	12/28/2010	50	1049	71	5.25	39	113	NM
VE-11S	10-30	12/30/2010	NM	1158	63	4.40	17	91	441
VE-11S	10-30	1/6/2011	50	1107	78	5.30	22	116	367
VE-11S	10-30	1/12/2011	50	1059	81	4.65	19	107	160
VE-11S	10-30	1/19/2011	100	1050	80	8.25	33	164	152
VE-11S	10-30	1/26/2011	100	1012	86	8.35	21	176	188
VE-11S	10-30	1/27/2011	100	0829	67	8.80	--	116	--
VE-11S	10-30	2/2/2011	80	1145	69	7.20	--	115	343
VE-11S	10-30	2/9/2011	80	1455	84	6.40	11	118	180
VE-11S	10-30	2/17/2011	100	0915	74	6.65	22	101	97
VE-11S	10-30	2/23/2011	100	1503	66	6.85	38	150	44
VE-11S	10-30	2/28/2011	100	1140	78	6.65	48	138	166
VE-11S	10-30	3/7/2011	100	1110	83	6.50	48	134	334
VE-11S	10-30	3/14/2011	100	1550	81	6.20	32	132	205
VE-11S	10-30	4/7/2011	100	1255	77	8.80	56	157	3
VE-11S	10-30	4/11/2011	100	0750	78	9.00	49	165	29
VE-11S	10-30	4/18/2011	100	1210	69	9.15	48	167	32
VE-11S	10-30	4/28/2011	100	0952	92	3.50	55	94	119
VE-11S	10-30	5/3/2011	100	0855	89	5.70	31	135	170
VE-11S	10-30	5/10/2011	100	1450	85	5.60	29	125	110
VE-11S	10-30	5/16/2011	100	1145	80	5.75	37	122	77
VE-11S	10-30	6/6/2011	100	0955	79	5.45	35	118	315
VE-11S	10-30	6/13/2011	100	1215	89	5.45	47	124	75
VE-11S	10-30	6/20/2011	100	1510	96	5.25	43	130	75
VE-11S	10-30	6/27/2011	100	1140	100	5.40	42	131	216
VE-11S	10-30	7/5/2011	100	1115	104	5.50	36	138	170
VE-11S	10-30	7/11/2011	100	0905	74	78.0	35	109	95
VE-11S	10-30	7/18/2011	100	1050	94	5.65	42	136	84
VE-11S	10-30	7/25/2011	100	0850	93	5.70	40	123	78
VE-11S	10-30	8/1/2011	100	0755	83	5.90	49	114	34
VE-11S	10-30	8/10/2011	100	0840	73	5.60	44	101	123
VE-11S	10-30	8/15/2011	100	1120	97	5.65	45	122	74

Table D2
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Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-11S	10-30	8/23/2011	100	1515	100	5.75	49	132	102
VE-11S	10-30	8/30/2011	100	0835	74	5.55	43	107	121
VE-11S	10-30	9/7/2011	100	1545	106	5.40	33	135	56
VE-11S	10-30	9/12/2011	100	1025	89	5.70	46	109	112
VE-11S	10-30	9/19/2011	100	1405	94	5.75	51	131	98
VE-11S	10-30	9/26/2011	100	1215	80	5.85	52	117	124
VE-11S	10-30	10/3/2011	100	1120	88	5.85	46	129	87
VE-11S	10-30	10/10/2011	100	1135	87	5.80	48	129	105
VE-11S	10-30	10/17/2011	100	1340	89	5.85	39	121	64
VE-11S	10-30	10/24/2011	100	1155	71	6.00	51	115	99
VE-11S	10-30	10/31/2011	100	0935	73	6.00	50	118	90
VE-11S	10-30	11/7/2011	100	1135	69	6.10	47	118	71
VE-11S	10-30	11/14/2011	100	1125	79	6.05	40	121	70
VE-11S	10-30	11/21/2011	100	1425	--	6.05	--	NM	47
VE-11S	10-30	11/28/2011	100	1120	87	6.00	35	135	68
VE-11S	10-30	12/5/2011	100	0945	68	6.05	49	108	75
VE-11S	10-30	12/19/2011	100	1200	64	6.00	60	104	76
VE-11S	10-30	12/29/2011	100	1055	78	5.95	70	132	79
VE-12S	10-30	6/3/2010	100	0935	85	11.62	NM	72	3340
VE-12S	10-30	6/9/2010	100	0959	79	9.10	NM	79	5801
VE-12S	10-30	6/14/2010	50	1435	94	6.40	NM	91	317
VE-12S	10-30	6/15/2010	50	0954	85	7.00	NM	79	297
VE-12S	10-30	6/16/2010	35	1149	90	5.95	NM	69	356
VE-12S	10-30	6/17/2010	35	1017	84	6.10	NM	64	1581
VE-12S	10-30	6/18/2010	35	1136	82	6.25	NM	62	1328
VE-12S	10-30	6/19/2010	35	1008	84	6.20	NM	63	1200
VE-12S	10-30	6/20/2010	35	1014	82	6.25	NM	61	1080
VE-12S	10-30	6/23/2010	35	1025	86	6.20	NM	64	909
VE-12S	10-30	6/30/2010	50	0937	80	6.55	NM	58	455
VE-12S	10-30	7/7/2010	50	1731	85	6.65	NM	63	393
VE-12S	10-30	7/14/2010	50	1350	97	5.55	NM	70	401
VE-12S	10-30	7/20/2010	40	1102	90	5.60	NM	66	303
VE-12S	10-30	7/23/2010	50	1226	94	5.65	NM	78	265
VE-12S	10-30	8/4/2010	50	1130	91	5.25	NM	74	246
VE-12S	10-30	8/6/2010	50	1234	90	5.40	NM	73	243
VE-12S	10-30	8/10/2010	NM	1531	94	5.30	NM	78	220
VE-12S	10-30	8/13/2010	50	1122	91	5.30	NM	74	194
VE-12S	10-30	8/17/2010	50	1711	97	5.70	19	90	216
VE-12S	10-30	8/20/2010	50	1232	97	5.70	21	81	228
VE-12S	10-30	8/24/2010	50	1632	100	5.70	13	93	181
VE-12S	10-30	9/1/2010	50	1025	85	5.90	32	68	160
VE-12S	10-30	9/8/2010	50	1416	81	5.90	38	70	480
VE-12S	10-30	9/10/2010	NM	1308	84	5.85	28	72	325
VE-12S	10-30	9/15/2010	NM	1443	92	5.88	26	82	235
VE-12S	10-30	9/22/2010	NM	1210	73	5.70	53	64	225
VE-12S	10-30	9/24/2010	NM	1148	91	5.75	30	87	120
VE-12S	10-30	9/28/2010	50	1155	94	5.75	29	83	124
VE-12S	10-30	10/6/2010	50	1113	63	5.90	80	81	113
VE-12S	10-30	10/8/2010	NM	1321	88	5.85	28	87	117

Table D2
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VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-12S	10-30	10/12/2010	50	1516	87	5.90	36	81	105
VE-12S	10-30	10/15/2010	50	1253	70	5.85	70	69	129
VE-12S	10-30	10/19/2010	50	1215	71	5.85	70	75	124
VE-12S	10-30	10/22/2010	50	1212	70	5.90	64	73	125
VE-12S	10-30	10/26/2010	50	0750	69	5.75	62	78	138
VE-12S	10-30	10/29/2010	50	1214	87	5.95	24	94	107
VE-12S	10-30	11/3/2010	50	0817	70	5.85	35	67	111
VE-12S	10-30	11/5/2010	50	0840	72	5.25	41	67	114
VE-12S	10-30	11/9/2010	50	1315	78	5.25	23	70	105
VE-12S	10-30	11/12/2010	50	0655	51	5.45	48	85	125
VE-12S	10-30	11/16/2010	50	0740	57	5.45	57	125	114
VE-12S	10-30	11/19/2010	50	0629	71	5.40	34	116	96
VE-12S	10-30	11/23/2010	50	1531	64	5.60	40	140	111
VE-12S	10-30	11/26/2010	50	0930	69	5.70	43	145	113
VE-12S	10-30	12/1/2010	50	1203	69	6.30	65	120	94
VE-12S	10-30	12/3/2010	50	0730	59	6.40	43	177	93
VE-12S	10-30	12/10/2010	50	0825	66	6.20	53	122	92
VE-12S	10-30	12/14/2010	NM	1140	63	6.30	73	NM	87
VE-12S	10-30	12/17/2010	50	0755	61	6.30	65	114	83
VE-12S	10-30	12/21/2010	50	1200	69	6.50	71	90	NM
VE-12S	10-30	12/24/2010	50	50	58	6.75	64	79	NM
VE-12S	10-30	12/28/2010	50	1030	78	6.60	34	121	NM
VE-12S	10-30	12/30/2010	NM	1150	67	5.20	15	NM	98
VE-12S	10-30	1/6/2011	50	1045	78	5.40	21	113	82
VE-12S	10-30	1/12/2011	50	1052	83	7.15	20	NM	38
VE-12S	10-30	1/19/2011	50	1105	78	6.30	34	NM	31
VE-12S	10-30	1/26/2011	50	0955	85	6.35	22	172	36
VE-12S	10-30	1/27/2011	50	0820	63	5.80	--	108	--
VE-12S	10-30	2/2/2011	50	1130	64	5.40	--	65	46
VE-12S	10-30	2/9/2011	50	1520	86	4.60	3	112	27
VE-12S	10-30	2/17/2011	50	0840	74	4.40	28	45	7
VE-12S	10-30	2/23/2011	50	1450	69	5.70	34	158	35
VE-12S	10-30	2/28/2011	50	1145	80	5.55	43	110	25
VE-12S	10-30	3/7/2011	50	1055	93	5.45	44	78	114
VE-12S	10-30	3/14/2011	50	1600	84	5.20	31	62	42
VE-12S	10-30	4/7/2011	50	1300	80	5.70	55	62	8
VE-12S	10-30	4/11/2011	50	0755	77	5.90	54	63	96
VE-12S	10-30	4/18/2011	50	1215	70	5.60	49	59	19
VE-12S	10-30	4/28/2011	100	0951	85	3.50	35	43	3
VE-12S	10-30	5/3/2011	100	0900	86	5.70	30	67	18
VE-12S	10-30	5/10/2011	100	1500	83	5.60	29	63	10
VE-12S	10-30	5/16/2011	100	1150	85	5.75	36	42	8
VE-12S	10-30	6/6/2011	100	0940	80	5.45	35	68	37
VE-12S	10-30	6/13/2011	100	1200	85	5.40	48	74	8
VE-12S	10-30	6/20/2011	100	1455	99	5.25	42	75	11
VE-12S	10-30	6/27/2011	100	1125	95	5.40	43	78	37
VE-12S	10-30	7/5/2011	100	1100	100	5.45	37	78	30
VE-12S	10-30	7/11/2011	100	0850	74	74.0	35	58	17
VE-12S	10-30	7/18/2011	100	1020	88	5.60	43	72	16
VE-12S	10-30	7/25/2011	100	0835	92	5.70	40	68	15
VE-12S	10-30	8/1/2011	100	0740	82	5.90	50	68	17
VE-12S	10-30	8/10/2011	100	0825	73	5.55	44	57	16
VE-12S	10-30	8/15/2011	100	1105	97	5.60	45	70	15
VE-12S	10-30	8/23/2011	100	1500	105	5.75	48	77	17

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-12S	10-30	8/30/2011	100	0820	73	5.55	44	61	15
VE-12S	10-30	9/7/2011	100	1530	106	5.30	31	86	9
VE-12S	10-30	9/12/2011	100	1010	83	5.65	47	70	18
VE-12S	10-30	9/19/2011	100	1350	93	5.70	51	77	15
VE-12S	10-30	9/26/2011	100	1200	81	5.85	52	67	21
VE-12S	10-30	10/3/2011	100	1105	88	5.85	45	77	13
VE-12S	10-30	10/10/2011	100	1120	87	5.75	47	85	13
VE-12S	10-30	10/17/2011	100	1325	87	5.20	33	77	10
VE-12S	10-30	10/24/2011	100	1140	70	6.00	51	72	18
VE-12S	10-30	10/31/2011	100	0920	71	5.95	51	71	19
VE-12S	10-30	11/7/2011	100	1120	66	6.05	47	77	15
VE-12S	10-30	11/14/2011	100	1110	81	6.00	40	90	16
VE-12S	10-30	11/21/2011	100	1410	71	6.00	49	NM	11
VE-12S	10-30	11/28/2011	100	1105	86	6.00	31	NM	15
VE-12S	10-30	12/5/2011	100	0930	67	6.00	48	NM	15
VE-12S	10-30	12/19/2011	100	1145	61	5.90	67	NM	16
VE-12S	10-30	12/29/2011	100	1040	79	5.95	70	NM	21
VE-14S	10-30	4/28/2011	100	0954	92	3.50	60	47	0
VE-14S	10-30	5/3/2011	100	0910	88	5.70	18	60	2
VE-14S	10-30	5/10/2011	100	1530	87	5.60	29	57	0
VE-14S	10-30	5/16/2011	100	1155	83	5.75	22	61	1
VE-14S	10-30	6/6/2011	100	1015	81	5.40	30	65	3
VE-14S	10-30	6/13/2011	100	1235	92	5.40	27	71	1
VE-14S	10-30	6/20/2011	100	1540	92	5.25	39	70	2
VE-14S	10-30	6/27/2011	100	1200	101	5.40	29	68	12
VE-14S	10-30	7/5/2011	100	1135	103	5.45	36	72	7
VE-14S	10-30	7/11/2011	100	0925	77	74.0	41	68	12
VE-14S	10-30	7/18/2011	100	1130	96	5.60	26	79	3
VE-14S	10-30	7/25/2011	100	0910	84	5.60	44	74	0
VE-14S	10-30	8/1/2011	100	0815	88	5.90	49	37	5
VE-14S	10-30	8/10/2011	100	0900	78	5.60	58	48	1
VE-14S	10-30	8/15/2011	100	1140	95	5.60	30	41	0
VE-14S	10-30	8/23/2011	100	1535	97	5.70	30	38	3
VE-14S	10-30	8/30/2011	100	0855	75	5.55	63	63	2
VE-14S	10-30	9/7/2011	100	1605	105	5.40	29	41	2
VE-14S	10-30	9/12/2011	100	1045	90	5.60	45	22	1
VE-14S	10-30	9/19/2011	100	1425	93	5.70	32	43	1
VE-14S	10-30	9/26/2011	100	1235	81	5.85	44	40	1
VE-14S	10-30	10/3/2011	100	1145	92	5.80	45	41	0
VE-14S	10-30	10/10/2011	100	1155	89	5.70	26	44	4
VE-14S	10-30	10/17/2011	100	1400	90	5.85	38	19	18
VE-14S	10-30	10/24/2011	100	1215	72	6.00	62	38	1
VE-14S	10-30	10/31/2011	100	0955	79	5.95	45	40	1
VE-14S	10-30	11/7/2011	100	1155	71	6.00	46	40	1
VE-14S	10-30	11/14/2011	100	1145	78	6.00	48	44	1
VE-14S	10-30	11/21/2011	100	1445	--	5.95	--	NM	0
VE-14S	10-30	11/28/2011	100	1140	85	6.00	23	36	3
VE-14S	10-30	12/5/2011	100	1005	75	6.00	49	NM	1
VE-14S	10-30	12/19/2011	100	1220	62	5.95	53	NM	1
VE-14S	10-30	12/29/2011	100	1115	77	5.90	72	52	3

Table D2
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
VEW Monitoring Data Summary

Well	Screen Interval (ft bgs)	Date	Main Valve Position (% Open)	Time	Temperature (F)	Vaccum (in Hg)	Relative Humidity (%)	Flow Rate (SCFM)	PID Reading* (ppmv)
VE-15S	10-30	4/28/2011	100	0954	94	3.45	62	28	0
VE-15S	10-30	5/3/2011	100	0907	90	5.70	16	34	5
VE-15S	10-30	5/10/2011	100	1540	92	5.60	28	38	1
VE-15S	10-30	5/16/2011	100	1200	88	5.75	35	32	2
VE-15S	10-30	6/6/2011	100	0930	83	5.35	34	37	9
VE-15S	10-30	6/13/2011	100	1152	82	5.40	48	35	3
VE-15S	10-30	6/20/2011	100	1440	107	5.20	41	38	4
VE-15S	10-30	6/27/2011	100	1155	92	5.40	44	37	12
VE-15S	10-30	7/5/2011	100	1050	106	5.45	35	33	11
VE-15S	10-30	7/11/2011	100	0840	74	76.0	35	25	2
VE-15S	10-30	7/18/2011	100	1000	85	5.60	44	28	5
VE-15S	10-30	7/25/2011	100	0825	80	5.65	42	23	4
VE-15S	10-30	8/1/2011	100	0730	81	5.90	53	24	5
VE-15S	10-30	8/10/2011	100	0815	74	5.55	44	28	4
VE-15S	10-30	8/15/2011	100	1055	99	5.60	44	39	6
VE-15S	10-30	8/23/2011	100	1450	110	5.75	47	46	5
VE-15S	10-30	8/30/2011	100	0810	72	5.50	45	30	5
VE-15S	10-30	9/7/2011	100	1520	106	5.40	27	56	2
VE-15S	10-30	9/12/2011	100	1000	79	5.65	50	40	6
VE-15S	10-30	9/19/2011	100	1340	106	5.75	47	46	7
VE-15S	10-30	9/26/2011	100	1150	82	5.85	54	33	7
VE-15S	10-30	10/3/2011	100	1055	90	5.75	43	36	6
VE-15S	10-30	10/10/2011	100	1110	88	5.75	42	53	4
VE-15S	10-30	10/17/2011	100	1315	87	5.85	34	40	3
VE-15S	10-30	10/24/2011	100	1130	70	6.00	52	37	5
VE-15S	10-30	10/31/2011	100	0910	69	5.95	50	36	7
VE-15S	10-30	11/7/2011	100	1110	63	6.00	47	35	5
VE-15S	10-30	11/14/2011	100	1100	83	6.00	38	47	5
VE-15S	10-30	11/21/2011	100	1400	78	6.00	48	NM	2
VE-15S	10-30	11/28/2011	100	1055	--	6.05	--	NM	6
VE-15S	10-30	12/5/2011	100	0920	72	6.00	53	NM	4
VE-15S	10-30	12/19/2011	100	1135	61	5.95	62	105	3
VE-15S	10-30	12/29/2011	100	1030	80	5.95	68	130	3

Notes:

PID reading was not collected on 12/21, 12/24, and 12/28/2010. Flame ionization detector (FID) reading is available upon request

ft bgs - feet below ground surface
F - degree Fahrenheit
in Hg - inches of Mercury
SCFM - standard cubic feet per minute

ppmv - parts per million by volume
E - Excceds PID range of detection
PID - photoionization detector
-- - measurements could not be made due to equipment failure or moisture in line

NM - not measured

Table D3
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - System Results

Date	Run time*	Vacuum	Relative Humidity	FLOW		Influent Operating Conditions		Intermediate Operating Conditions		Effluent Operating Conditions		PID			GAC Efficiency (PID)[a]		GAC Efficiency (Analytical)[b]		Remarks
	hr	in Hg	%	Influent SCFM	Effluent SCFM	Temp. F	Pres. in H2O	Temp. F	Pres. in H2O	Temp. F	Pres. in H2O	Influent ppmv	Intermediate ppmv	Effluent ppmv	Lead	Overall	Lead	Overall	
6/9/10	10.3	8.9	NM	656	656	74	11.0	81	7.5	87	3.0	9999	0.5	0.0	100%	100%	100.0%	100.0%	System running; perform O&M; collect inf/eff samples; monitor VMPs.
6/14/10	26.7	8.6	NM	538	538	90	6.0	95	7.0	100	3.0	427	0.0	0.0	100%	100%	100.0%	100.0%	System running; perform O&M;
6/15/10	45.7	9.8	NM	633	633	76	10.0	81	6.5	85	3.0	442	0.0	0.0	100%	100%	100.0%	99.9%	System running; perform O&M;
6/16/10	71.8	13.0	NM	496	503	74	7.5	82	5.0	91	2.0	567	0.0	0.0	100%	100%	99.9%	99.8%	System running; perform O&M;
6/17/10	94.0	13.0	NM	534	492	74	7.0	81	5.0	89	2.0	3697	5.1	2.9	100%	100%	99.9%	99.8%	System running; perform O&M;
6/18/10	119.7	13.0	NM	515	507	76	7.5	83	5.0	89	2.0	3405	5.1	2.1	100%	100%	99.9%	99.7%	System running; perform O&M;
6/19/10	141.9	13.0	NM	507	503	77	7.0	80	5.0	83	2.0	3211	5.8	3.9	100%	100%	99.8%	99.6%	System running; perform O&M;
6/20/10	166.1	13.0	NM	529	502	77	7.0	82	5.0	87	2.0	3257	4.1	2.1	100%	100%	99.8%	99.5%	System running; perform O&M;
6/21/10	185.9	13.0	NM	517	504	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	99.8%	99.4%	System shut down;
6/21/10	185.9	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	99.8%	99.4%	Perform carbon change out (lead vessel), switch lead/lag vessels, turn system back on, cumulative mass loading of lead vessel is set to equal to previous cumulative mass loading of lag vessel, cumulative mass loading of lag vessel is set to zero.
6/23/10	225.5	13.0	NM	562	519	78	8.0	81	6.0	84	3.0	2698	2.3	1.8	100%	100%	99.7%	99.2%	System running; perform O&M;
6/30/10	393.2	11.0	NM	539	508	77	7.5	81	5.0	85	3.0	1312	0.6	1.1	100%	100%	99.3%	98.2%	System running; perform O&M; collect inf/eff Samples
7/7/10	569.1	11.5	NM	510	518	77	10.0	81	5.0	84	3.0	1048	83.2	1.5	92%	100%	79.5%	99.3%	System running; perform O&M; collect inf/eff samples; monitor VMPs.
7/9/10	610.2	11.8	NM	537	515	75	8.0	NM	5.0	NM	3.0	1053	73.3	5.5	93%	99%	80.4%	99.4%	System shut down due to carbon break through from both vessels;
7/13/10	610.2	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Perform carbon change out (both vessels). Mass loading on both vessels are reset to zero. Restart system.
7/14/10	627.3	14.0	NM	492	437	98	7.5	103	6.0	109	4.0	1047	0.5	1.3	100%	100%	80.8%	99.4%	System running; perform O&M
7/20/10	769.5	13.0	NM	512	543	83	7.0	87	5.0	92	3.0	848	1.4	0.5	100%	100%	85.2%	99.6%	System running; perform O&M
7/23/10	842.6	12.5	NM	505	522	82	7.0	86	5.0	89	3.0	724	14.3	0.6	98%	100%	88.3%	99.7%	System running; perform O&M
7/27/10	939.3	13.2	NM	503	500	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	93.9%	99.9%	System shut down due to disconnected piping and heat exchange temperature sensor failure;
7/28/10	939.3	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Perform carbon changeout (lead vessel). Mass loading on lead vessel is set to equal to previous cumulative mass loading of lag vessel; cumulative mass loading of lag vessel is set to zero. System Remained off for repair (pipe repair performed on 7/30).
8/3/10	939.3	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Completed repair. Temperature sensor and wiring replaced. Restarted System
8/4/10	959.4	12.0	NM	486	574	80	7.0	86	5.0	92	1.5	645	6.1	0.4	99%	100%	95.4%	100.0%	System running; perform O&M; collect inf/eff Samples; measure VMPs
8/6/10	1009.7	12.0	NM	459	512	83	7.0	83	5.0	84	2.0	634	13.4	0.0	98%	100%	96.6%	100.0%	System running; perform O&M
8/9/10	1077.7	12.0	NM	473	543	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	98.9%	100.0%	System shutdown for carbon changeout at 8AM
8/9/10	1077.7	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Perform carbon change out (lead vessel), switch lead/lag vessels, turn system back on, cumulative mass loading of lead vessel is set to equal to previous cumulative mass loading of lag vessel, cumulative mass loading of lag vessel is set to zero.
8/10/10	1100.5	12.5	NM	461	553	89	8.0	94	6.0	99	4.0	583	0.7	0.0	100%	100%	100.0%	100.0%	System running; perform O&M; collect inf/eff Samples; collect VEW samples
8/13/10 #	1168.9	12.5	NM	486	504	79	8.0	83	5.0	88	3.0	527	0.4	0.4	100%	100%	100%	100%	System running; perform O&M; collect VEW samples
8/17/10 #	1216.7	12.5	13	448	504	97	9.0	95	6.0	93	4.0	610	4.1	3.7	99%	99%	100%	100%	System running; perform O&M
8/20/10 #	1284.4	13.0	15	452	511	92	8.5	97	6.0	100	5.0	530	2.8	1.7	99%	100%	100%	100%	System running; perform O&M
8/24/10 #	1383.8	13.0	NM	415	508	100	8.5	100	6.0	103	5.5	511	14.5	3.6	97%	99%	100%	100%	System running; perform O&M
9/1/10 #	1562.4	12.0	22	464	569	82	7.0	83	5.0	84	1.5	455	24.6	0.0	95%	100%	100%	100%	System running; perform O&M
9/2/10	1586.4	12.7	NM	444	529	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	100%	100%	System shutdown for carbon changeout
9/2/10	1586.4	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Perform carbon change out (lead vessel), switch lead/lag vessels, turn system back on, cumulative mass loading of lead vessel is set to equal to previous cumulative mass loading of lag vessel, cumulative mass loading of lag vessel is set to zero.
9/8/10	1727.0	10.3	26	510	498	75	9.0	76	5.5	77	2.5	435	0.8	0.6	100%	100%	99.8%	99.9%	System running; perform O&M; collect inf/eff Samples; collect VEW samples; monitor VMPs
9/10/10	1773.4	12.5	15	430	495	84	9.0	88	5.3	93	2.0	372	1.4	0.9	100%	100%	99.1%	99.9%	System running; perform O&M
9/15/10	1894.4	12.5	18	440	520	89	10.0	91	5.5	94	2.5	371	10.5	1.5	97%	100%	97.2%	99.9%	System running; perform O&M; Monitor VMPs.
9/22/10	2054.1	10.5	34	504	537	73	8.0	76	5.0	78	2.5	359	4.3	0.9	99%	100%	94.2%	99.9%	System running; perform O&M
9/24/10	2100.5	12.5	21	450	530	85	8.0	86	5.0	86	2.5	284	25.4	2.7	91%	99%	93.2%	99.9%	System running; perform O&M
9/28/10	2196.9	12.0	19	510	530	95	8.0	96	5.5	96	2.5	260	19.0	8.3	93%	97%	90.9%	99.9%	System running; perform O&M
9/29/10	2228.4	11.7	NM	488	532	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	90%	100%	System shutdown for carbon changeout

Table D3
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - System Results

Date	Run time*	Vacuum	Relative Humidity	FLOW		Influent Operating Conditions		Intermediate Operating Conditions		Effluent Operating Conditions		PID			GAC Efficiency (PID)[a]		GAC Efficiency (Analytical)[b]		Remarks
	hr	in Hg	%	Influent SCFM	Effluent SCFM	Temp. F	Pres. in H2O	Temp. F	Pres. in H2O	Temp. F	Pres. in H2O	Influent ppmv	Intermediate ppmv	Effluent ppmv	Lead	Overall	Lead	Overall	
10/4/10	2228.4	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Perform carbon change out (lead vessel), switch lead/lag vessels; cumulative mass loading of lead vessel is set to equal to previous cumulative mass loading of lag vessel, cumulative mass loading of lag vessel is set to zero.
10/5/10	2228.4	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	System restart
10/6/10	2253.4	9.0	50	570	584	66	8.0	68	6.0	71	3.0	288	6.0	0.2	98%	100%	89%	99.9%	System running; perform O&M; collect inf/eff samples; monitor VMPs.
10/8/10	2303.4	12.0	18	520	575	84	8.5	91	6.5	99	3.0	264	16.3	0.5	94%	100%	88.3%	98.7%	System running; perform O&M
10/12/10	2371.9	12.5	24	430	41	87	8.5	92	6.5	97	3.0	266	29.5	0.7	89%	100%	86.7%	96.9%	System running; perform O&M
10/15/10	2441.5	10.0	48	450	600	71	9.0	73	7.5	75	3.0	279	25.6	0.1	91%	100%	84.9%	95.0%	System running; perform O&M
10/19/10	2536.6	12.4	53	515	515	71	10.0	73	7.0	74	3.0	265	25.3	0.1	90%	100%	82.3%	92.2%	System running; perform O&M
10/22/10	2606.5	10.0	39	630	608	70	8.5	73	7.0	77	3.0	258	21.7	0.4	92%	100%	80.2%	89.9%	System running; perform O&M;
10/26/10	2698.0	12.7	40	535	590	65	9.0	65	7.0	66	3.0	237	20.0	0.5	92%	100%	77.2%	86.6%	System running; perform O&M
10/29/10	2774.7	13.0	16	490	582	86	9.0	87	7.0	88	3.0	220	36.5	1.5	83%	99%	74.5%	83.6%	System running; perform O&M
11/1/10	2843.2	11.5	46	396	612	66	8.0	66	6.5	65	3.0	244	25.3	2.1	90%	99%	72%	81%	System running; perform O&M; collect inf/eff samples; system shutdown for carbon changeout; carbon changeout in primary vessel
11/1/10	2843.2	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Perform carbon change out (lead vessel), switch lead/lag vessels; cumulative mass loading of lead vessel is set to equal to previous cumulative mass loading of lag vessel, cumulative mass loading of lag vessel is set to zero.
11/3/10	2865.5	12.0	33	488	525	71	9.0	73	7.0	75	3.0	227	4.2	0.5	98%	100%	71.8%	80.6%	System running; perform O&M; collect VEW samples; monitor VMPs
11/5/10	2914.1	11.5	42	490	556	71	8.5	75	6.5	78	4.0	255	3.2	0.3	99%	100%	71.7%	80.3%	System running; perform O&M
11/9/10	3015.2	12.0	18	422	577	74	8.5	79	6.0	83	3.5	229	19.2	0.8	92%	100%	71.5%	79.8%	System running; perform O&M
11/12/10	3081.4	9.0	33	388	568	52	9.0	55	6.5	58	3.0	271	8.2	0.3	97%	100%	71.5%	79.4%	System running; perform O&M
11/16/10	3178.1	9.5	38	382	571	57	10.5	59	6.0	61	3.0	247	11.6	0.1	95%	100%	71.3%	78.9%	System running; perform O&M
11/19/10	3245.7	12.9	50	396	581	64	8.5	65	6.0	67	2.5	210	10.4	0.8	95%	100%	71.2%	78.6%	System running; perform O&M
11/23/10	3350.4	11.0	24	413	544	66	15.0	66	6.0	66	3.0	235	28.8	2.7	88%	99%	71.1%	78.1%	System running; perform O&M
11/26/10	3416.8	13.5	59	358	568	69	15.0	69	5.5	69	2.5	269	12.9	1.3	95%	100%	71.0%	77.8%	System running; perform O&M
12/1/10	3489.9	13.5	49	366	569	79	10.0	76	6.0	72	2.5	283	11.6	3.7	96%	99%	71.0%	77.5%	System off upon arrival for O&M; perform O&M
12/3/10	3492.4	13.3	55	370	585	71	10.0	70	6.0	68	2.5	301	8.9	2.8	97%	99%	71.0%	77.5%	System running; perform O&M
12/10/10	3536.5	12.3	54	222	704	73	12.0	72	6.5	71	3.5	213	10.9	1.9	95%	99%	70.9%	77.3%	System running; perform O&M; collect VEW samples; collect inf/eff samples.
12/14/10	3636.2	10.5	63	290	712	72	13.0	67	7.0	62	3.0	203	16.1	13.3	92%	93%	69.6%	80.2%	System running; perform O&M. Turn power off for carbon change out. Monitor VMPs.
12/15/10	3636.2	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Perform carbon change out (both vessel). Cumulative mass loading of both vessels are set to zero.
12/17/10	3670.7	12.1	42	521	516	74	8.5	73	5.0	71	1.0	200	0.0	0.0	100%	100%	74.2%	81.2%	System running; perform O&M.
12/21/10	3745.2	12.8	50	438	491	69	7.5	67	5.0	64	1.0	NM	NM	NM	NM	NM	76.1%	83.5%	System running; perform O&M.
12/24/10	3784.7	12.9	64	485	543	60	8.0	61	4.0	61	0.0	NM	NM	NM	NM	NM	77.1%	84.7%	System running; perform O&M.
12/28/10	3884.3	12.0	31	535	572	75	10.0	77	5.0	78	0.0	NM	NM	NM	NM	NM	79.8%	87.9%	System running; perform O&M; Monitor VMPs.
12/30/10	3906.2	9.5	18	595	603	68	11.0	67	6.5	67	2.0	152	0.3	0.3	100%	100%	80.4%	88.6%	System running; perform O&M.
1/6/11	4056.4	10.0	21	593	623	82	10.0	81	6.0	80	0.0	164	0.9	0.7	99%	100%	84.6%	93.7%	System running; perform O&M.
1/12/11	4188.9	12.0	22	452	500	76	6.0	80	4.0	84	1.0	94	0.0	0.0	100%	100%	88.6%	98.4%	System running; perform O&M; collect VEW samples; collect VMP samples; collect inf/eff samples.
1/19/11	4348.7	10.0	28	421	500	78	6.0	79	4.0	81	0.0	105	1.0	0.0	99%	100%	88.4%	98.3%	System running; perform O&M.
1/26/11	4515.4	8.4	11	318	480	73	8.0	71	4.0	69	0.0	108	3.5	0.0	97%	100%	88.1%	98.2%	System running; perform O&M; Monitor select VMPs.
1/27/11	4539.4	NM	NM	256	403	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	System running; perform O&M; Monitor select VMPs; bring VE-15S online and conduct requisite system monitoring
2/2/11	4685.4	8.7	NM	194	325	72	8.0	70	4.5	67	0.0	121	12.3	2.3	90%	98%	87.9%	98.1%	System running; perform O&M; Monitor select VMPs; bring VE-14S online and conduct requisite system monitoring
2/8/11	4685.4	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	Perform carbon change out (lead vessel), switch lead/lag vessels; cumulative mass loading of lead vessel is set to equal to previous cumulative mass loading of lag vessel, cumulative mass loading of lag vessel is set to zero.
2/9/11	4710.6	7.7	85	385	561	81	8.5	84	5.0	87	4.0	123	0.2	0.0	100%	100%	87.8%	98.0%	System off upon arrival for O&M; perform O&M
2/17/11	4873.9	6.0	NM	545	477	66	6.0	70	1.5	74	2.5	89	0.2	0.0	100%	100%	87.6%	97.9%	System running; perform O&M. System down multiple time in this period due to high temp alarm.
2/23/11	5022.3	6.8	50	356	514	67	6.0	68	1.0	70	2.5	405	20.1	0.6	95%	100%	87.4%	97.8%	System running; perform O&M.
2/25/11	5070.3	NM	NM	371	525	71	5.5	72	3.0	73	2.3	267	10.3	6.2	96%	98%	87.3%	97.8%	System running; collect inf/eff samples; collect VEW samples.
2/28/11	5130.2	6.7	NM	385	535	75	5.0	76	5.0	76	2.0	128	0.4	11.7	100%	91%	87.4%	97.7%	System running; perform O&M. System down multiple time in this period due to high temp alarm.
3/7/11	5282.3	6.6	NM	360	535	75	6.5	78	1.0	80	3.0	377	49.0	0.1	87%	100%	87.8%	97.6%	System running; perform O&M.
3/14/11	5440.5	6.2	32	525	560	80	7.0	80	2.0	80	3.0	296	87.0	1.7	71%	99%	88.3%	97.4%	System running; perform O&M. System shutdown on 3/18 for carbon changeout

Table D3
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - System Results

Date	Run time* hr	Vacuum in Hg	Relative Humidity %	FLOW Influent SCFM	FLOW Effluent SCFM	Influent Operating Conditions Temp. F	Influent Operating Conditions Pres. in H2O	Intermediate Operating Conditions Temp. F	Intermediate Operating Conditions Pres. in H2O	Effluent Operating Conditions Temp. F	Effluent Operating Conditions Pres. in H2O	PID Influent ppmv	PID Intermediate ppmv	PID Effluent ppmv	GAC Efficiency (PID)[a] Lead	GAC Efficiency (PID)[a] Overall	GAC Efficiency (Analytical)[b] Lead	GAC Efficiency (Analytical)[b] Overall	Remarks
3/22/11	5529.4	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Perform carbon change out (lead vessel), switch lead/lag vessels; cumulative mass loading of lead vessel is set to equal to previous cumulative mass loading of lag vessel, cumulative mass loading of lag vessel is set to zero. Restart system.
3/23/11	5529.4	NA	NM	0	0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	System automatic shutoff due to blower overheating. Wellfield was not opened when system was restarted on 3/22. Blower needed to be refurbished. No sampling was perform in March due to system shutdown.
4/4/11	5529.4	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Install refurbished blower unit and restarted system.
4/7/11	5606.8	8.8	28	595	600	80	8.0	84	8.5	87	2.0	60	0.7	0.0	99%	100%	89.4%	97.1%	System running; perform O&M.
4/11/11	5697.3	9.0	46	558	591	60	8.0	64	8.0	69	0.0	276	4.2	0.1	98%	100%	90.5%	96.7%	System running; perform O&M. VMP quarterly monitoring; collect inf/eff samples; collect VEW samples; collect VMP samples.
4/18/11	5857.8	9.4	48	690	675	75	7.5	74	8.0	73	2.5	296	6.3	0.0	98%	100%	90.6%	96.8%	System running; perform O&M.
4/21/11	5926.1	NA	NM	0	0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Shutdown existing system for upgrade to new system with 1,000 cfm blower
4/26/11	10939.7	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	starup/shakedown of new system; brought VE-6S, VE-14S, and VE-15S on-line. Blower runtime meter replaced.
4/28/11	10989.1	3.6	31	612	560	87	7.8	84	30.0	82	0.0	13	0.8	0.0	94%	100%	92.9%	99.0%	System running; perform O&M.
5/3/11	11106.1	5.9	22	805	815	105	79.5	97	12.5	88	6.0	45	5.4	0.0	88%	100%	93.0%	99.1%	System running; perform O&M.
5/5/11	11154.1	NA	NM	0	0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	shutdown for carbon changeout (lead vessel only)
5/5/11	11154.1	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Restarted system after carbon changeout (lead vessel), switch lead/lag vessels. Cumulative mass loading of lead vessel is set to equal to previous cumulative mass loading of lag vessel, cumulative mass loading of lag vessel is set to zero. Restart system.
5/10/11	11270.0	5.8	29	850	820	99	18.5	96	12.5	93	5.0	109	2.2	0.0	98%	100%	93.0%	99.1%	System running; perform O&M.
5/16/11	11411.3	5.9	24	860	880	100	19.0	95	12.5	89	5.0	101	0.3	0.3	100%	100%	93.1%	99.1%	System running; perform O&M. Collect inf/eff samples; collect VEW samples
5/18/11	11458.7	NA	NM	0	0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	System shut down. Blower needed repair due to collapsing sound proof structure onto blower driving belt and subsequent bearing failure.
6/3/11	11458.7	NA	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	System restart after installation of refurbished blower
6/6/11	11533.1	5.6	28	860	905	102	20.0	96	12.5	90	5.0	139	2.5	0.7	98%	99%	92.7%	99.0%	System running; perform O&M; processed water; System shut down on 6/7/11, repared/cleaned manways on both carbon vessels, resealed and installed nuts and bolts to prevent manways from leaking.
6/13/11	11701.1	5.5	31	825	900	138	20.0	119	13.0	99	5.0	38	0.1	0.0	100%	100%	92.0%	98.6%	System running; perform O&M; processed waterl; On 6/14/11 ISVE restarted after "low air flow", "high air temp" alarms went off. On 6/18/11, attempted ISVE restart after "low air flow", "high water" alarms went off. "Under Voltage" alarm shown upon trying to restart. Restart on 6/19/11.
6/20/11	11850.3	5.4	34	850	890	103	19.0	101	12.5	99	5.5	37	0.5	0.3	99%	99%	91.0%	98.1%	System running; perform O&M. HX was not turned on, causing high temp and system shutdown for 3 hrs on 6/14 (HX was reset). Another shutdown occurred on 6/18 due to high float not working. Float was clean and system was restarted on 6/19.
6/28/11	12015.3	5.6	27	855	854	102	18.5	100	12.5	97	5.0	55	1.6	0.0	97%	100%	88.8%	96.9%	System running; perform O&M; Inside control panel - outgoing fan was going bad, temporarily stopped; Increased VFD frequency to 34.5 Hz.Collect inf/eff samples; collect VEW samples; VMP monitoring; collect VMP samples (6/30)
7/5/11	12183.3	5.6	30	840	860	106	20.0	104	13.0	101	5.0	100	2.5	0.0	98%	100%	90.8%	97.0%	System running; perform O&M. Blower timer not working properly. Run time is assumed to be 100%
7/11/11	12327.3	5.3	46	846	882	99	19.5	93	12.5	86	5.0	78	0.0	0.0	100%	100%	91.6%	97.0%	System running; perform O&M. Blower timer not working properly. Run time is assumed to be 100%
7/18/11	117.5	5.8	25	870	865	102	18.5	100	12.5	98	4.5	67	2.5	0.0	96%	100%	92.1%	97.0%	System running; perform O&M; Blower timer replaced on 7/13; collect inf/eff samples; collect VEW samples
7/25/11	284.1	5.8	34	870	875	103	18.5	98	12.5	93	4.5	68	5.5	5.1	92%	93%	90.3%	84.9%	System running; perform O&M.
8/1/11	451.9	6.0	35	886	862	100	19.0	95	12.5	90	5.5	82	5.6	2.6	93%	97%	88.3%	71.1%	System running; perform O&M.
8/10/11	630.3	5.8	45	873	874	96	19.5	90	12.5	83	5.5	94	4.7	1.7	95%	98%	85.8%	54.4%	System running; perform O&M. System was off from 8/7 19:15 to 8/9 10:00 due to malfunctioning heat exchanger fan. Fan replaced and restarted on 8/9.
8/15/11	753.0	5.8	32	920	903	103	19.0	101	12.5	99	5.0	65	7.0	3.5	89%	95%	83.9%	41.5%	System running; perform O&M.
8/23/11	948.7	5.9	29	850	850	105	18.5	104	11.5	102	4.5	91	7.8	4.2	91%	95%	80.4%	17.8%	System running; perform O&M. System shut down after O&M on 8/23 for vessel swapping.
8/30/11	969.6	5.7	52	890	890	104	18.5	97	12.8	90	6.7	112	NM	75.3	NA	33%	80.0%	15.0%	Changed carbon vessels from 8,000 lb vessels to 4,000 lb vessels on 8/26. System restarted on 8/29. No sampling ports were installed on new vessels (thus no pressure and PID reading; collect inf/eff samples; collect VEW samples.

Table D3
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - System Results

Date	Run time* hr	Vacuum in Hg	Relative Humidity %	FLOW Influent SCFM	FLOW Effluent SCFM	Influent Operating Conditions Temp. F	Influent Operating Conditions Pres. in H2O	Intermediate Operating Conditions Temp. F	Intermediate Operating Conditions Pres. in H2O	Effluent Operating Conditions Temp. F	Effluent Operating Conditions Pres. in H2O	PID Influent ppmv	PID Intermediate ppmv	PID Effluent ppmv	GAC Efficiency (PID)[a] Lead	GAC Efficiency (PID)[a] Overall	GAC Efficiency (Analytical)[b] Lead	GAC Efficiency (Analytical)[b] Overall	Remarks
9/7/11	1160.6	5.5	20	845	825	110	18.5	110	13.0	110	7.0	50	0.0	0.0	100%	100%	55.0%	-42.9%	Carbon changed out on 9/1 (5 hrs shutdown); installed sampling ports on new vessels; system running; perform O&M; collect inf/eff samples; collect VEW samples; collect VMP samples.
9/12/11 @	1275.3	5.7	33	844	840	97	18.5	96	13.0	94	6.5	95	3.3	1.7	97%	98%	92.7%	98.8%	System running; perform O&M.
9/19/11 @	1447.0	5.9	31	855	860	103	17.5	102	12.5	101	6.5	83	0.7	0.5	99%	99%	92.7%	98.8%	System running; perform O&M.
9/26/11 @	1613.1	6.0	50	870	870	102	17.5	96	12.5	89	6.5	126	1.5	0.8	99%	99%	92.7%	98.8%	System running; perform O&M.
10/3/11 @	1780.1	6.0	34	880	845	103	17.0	100	12.5	97	6.0	158	1.2	1.1	99%	99%	92.7%	98.8%	System running; perform O&M.
10/10/11	1929.3	5.9	26	885	850	102	18.0	99	12.0	96	6.0	133	2.4	0.9	98%	99%	92.7%	98.8%	System running; perform O&M; collect inf/eff samples; collect VEW samples
10/17/11	2099.3	5.9	32	870	840	102	16.5	100	11.5	98	6.0	74	1.5	0.6	98%	99%	89.8%	95.2%	System running; perform O&M; Monitor VMPs.
10/24/11	2265.6	6.2	51	880	870	103	16.5	94	11.0	85	6.0	120	3.1	0.2	97%	100%	87.1%	91.9%	System running; perform O&M.
10/31/11	2431.2	6.1	38	884	864	103	16.5	97	11.5	90	6.0	127	4.1	0.2	97%	100%	84.6%	88.8%	System running; perform O&M.
11/7/11	2602.3	6.2	36	892	865	103	16.5	95	11.0	87	6.0	108	8.4	2.9	92%	97%	82.1%	85.7%	System running; perform O&M; collect inf/eff samples; collect VEW samples
11/14/11	2770.1	6.2	39	890	840	103	16.5	96	10.5	89	5.5	95	5.3	2.6	94%	97%	83.7%	87.5%	System running; perform O&M.
11/21/11	2942.0	6.2	NA	890	900	102	16.5	93	12.0	84	5.5	78	8.5	2.3	89%	97%	85.5%	89.7%	System running; perform O&M; Monitor VMPs.
11/28/11	3106.3	6.1	19	894	870	103	16.5	99	11.5	94	6.5	90	9.1	4.9	90%	95%	87.6%	92.1%	System running; perform O&M.
12/5/11	3272.5	6.2	31	900	882	103	19.0	93	11.0	83	5.5	102	16.0	4.0	84%	96%	90.2%	95.0%	System running; perform O&M.
12/12/11	3442.1	6.1	NM	895	884	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	System Shutdown due to low removal efficiency
12/17/11	3442.1	NA	NM	0	0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Carbon change out (primary vessel only); System Restart.
12/19/11	3491.7	6.1	36	919	905	114	19.0	96	13.5	77	6.5	95	1.2	0.0	99%	100%	94.4%	100.0%	System running; perform O&M; collect inf/eff samples; collect VEW samples; monitor VMPs (12/20/2011).
12/29/11	3732.0	6.1	70	910	950	125	19.0	104	13.5	82	6.5	99	1.5	0.0	98%	100%	94.4%	100.0%	System running; perform O&M.

Note:
*Run time is based on recorded SVE Blower run time data unless indicated otherwise
[#]Mass loading rates for these dates are assumed to be identical to the nearest sampling event per unit flow rate and adjusted for flow rate. When additional data becomes availabe, mass loading rates will be adjusted accordingly.
[@]Mass loading rate for these dates are based on 10/10/2011 analytical data instead of the interpolated data from analytical data of both 10/10/2011 and 9/7/2011. This is because the analytical data for 9/7/2011 are erroneous and not used for evaluation.
[a]GAC efficiency determined based on PID data for the lead vessel and for the treatment system overall
[b]GAC efficiency determined based on analytical data and interpolated data based on analyhtical data for the lead vessel and for the treatment system overall
NA = Not Applicable
Temp = Temperature
Pres = Pressure
HR = Hour
SCFM = Standard Cubic Feet per Minute
NM = Not measured
F = Fahrenheit
in H2O = inches of water
ppmv = parts per million by volume
Erroneous values, disregarded during evaluation
NM = Not measured
Calculated Values based on average or interpolated data

Table D4
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
GAC Analytical Results

Old Effluent Permit Limit*			4,328	364	2,382	3.9	118	23	2.7	125	8.1	43,625	0.03	1,360	4.8	5.5	0.14	92	10	3,320	
Updated Effluent Permit Limit (Aug'10)*			770	47	61	4.4	4.9	2.4	3.7	30	390	700	200	59	1.1	4.2	2	1200	470	1400	
Updated Effluent Permit Limit (Jun'11)*			92	170	2700	170	170	170	170	34	890	3100	160	3000	52	27	170	870	2100	200	
Sample ID		**Sample Date**	**PCE**	**TCE**	**11DCE**	**VC**	**111TCA**	**11DCA**	**12DCA**	**CF**	**MC**	**Freon11**	**Freon12**	**Freon113**	**BEN**	**TOL**	**XYL**	**CD**	**MEK**	**IP**	Total VOCs[%]
			Concentrations in parts per billion by volume (ppbv)																		
Influent	INF	6/9/2010	**270,000**	**17,000**	**32,000**	2000 U	1800 J	760 J	2000 U	**4,000**	**2,100**	**3,300**	2000 U	**18,000**	290 J	1100 J	980 J	1400 J	2000 U	10000 U	350,000
Intermediate	MID	6/9/2010	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.7 U	**3**	9.7 U	3
Effluent	EFF	6/9/2010	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	9.9 U	1.9 J	9.9 U	2
Influent	INF	6/30/2010	**130,000**	**8,900**	**13,000**	820 U	**910**	590 J	320 J	**5,700**	**1,200**	**1,400**	820 U	**12,000**	240 J	**830**	220 J	**7,000**	820 U	3100 J	190,000
Intermediate	MID	6/30/2010	**920**	**32**	**77**	1.7 J	1.1 J	1.8 J	1.2 J	**13**	**99**	**81**	**12**	**180**	0.78 J	1.1 J	5.1 U	8.3 J	5.1 U	3.8 J	1,400
Effluent	EFF	6/30/2010	**2,600**	**120**	**250**	20 U	8.6 J	8.2 J	4.4 J	**72**	**110**	**52**	8.2 J	**180**	3.7 J	3.6 J	2 J	20 J	20 U	15 J	3,500
Influent	INF	7/7/2010	**150,000**	**9,200**	**8,800**	970 U	690 J	460 J	480 J	**4,700**	860 J	**1,100**	970 U	**9,300**	300 J	150 J	970 U	4900 U	970 U	4900 U	190,000
Intermediate	MID	7/7/2010	110 U	**110**	**11,000**	110 U	44 J	**320**	110 U	**790**	**4,400**	**4,600**	110 U	**18,000**	18 J	12 J	110 U	530 U	110 U	530 U	39,000
Effluent	EFF	7/7/2010	1.8 J	1.2 J	**270**	**4.4**	1.2 J	**6**	2.1 U	**18**	**390**	**280**	**9**	**330**	0.24 J	0.71 J	2.1 U	10 U	2.1 U	10 U	1,300
Influent	INF	8/4/2010	**77,000**	**4,700**	**6,100**	400 U	**490**	240 J	370 J	**3,000**	390 J	**700**	400 U	**5,900**	72 J	54 J	400 U	390 J	400 U	250 J	100,000
Intermediate	MID	8/4/2010	**64**	19 U	**1,500**	19 U	4.1 J	**42**	19 U	**120**	**390**	**450**	3 J	**2,000**	19 U	2.2 J	19 U	28 J	19 U	13 J	4,600
Effluent	EFF	8/4/2010	0.45 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.27 J	1.9 U	0.42 J	1.9 U	9.7 U	**4**	9.7 U	5
Influent	INF	8/10/2010	**43,000**	**2,800**	**4,600**	370 U	**390**	190 J	240 J	**2,200**	300 J	**530**	39 J	**5,600**	110 J	**420**	59 J	1200 J	**470**	1400 J	64,000
Intermediate	MID	8/10/2010	1 J	1.9 U	1.9 U	**7**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**7**	1.9 U	0.32 J	0.19 J	1.9 U	9.5 U	1.9 U	9.5 U	15
Effluent	EFF	8/10/2010	0.82 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.29 J	0.28 J	2 U	10 U	2 U	10 U	1
Influent	INF	9/8/2010	**37,000**	**2,300**	**3,400**	220 U	**390**	140 J	**250**	**1,500**	160 J	**470**	59 J	**4,400**	170 J	**590**	29 J	1100 U	160 J	110 J	52,000
Intermediate	MID	9/8/2010	**78**	**2**	**6**	1.8 U	1.8 U	1.8 U	1.8 U	0.54 J	**6**	**9**	**3**	**6**	0.23 J	0.74 J	1.8 U	9 U	1.8 U	9 U	110
Effluent	EFF	9/8/2010	**35**	0.82 J	**6**	1.8 U	1.8 U	1.8 U	1.8 U	0.43 J	**13**	**5**	1.4 J	1.5 J	0.18 J	0.29 J	1.8 U	8.9 U	1.8 U	8.9 U	64
Influent	INF	10/6/2010	**29,000**	**1,500**	**2,300**	190 U	**300**	81 J	**230**	**790**	74 J	**330**	190 U	**2,900**	35 J	25 J	190 U	970 U	190 U	970 U	38,000
Intermediate	MID	10/6/2010	6.6 J	**67**	**1,500**	9.5 U	2.5 J	**37**	9.5 U	**97**	**160**	**550**	1.9 J	**1,600**	1.6 J	4.1 J	1.1 J	3 J	9.5 U	48 U	4,000
Effluent	EFF	10/6/2010	**20**	1.4 J	1.7 J	1.9 U	1.9 U	1.9 U	1.9 U	0.33 J	1.9 U	1.9 U	1.9 U	1.9 U	0.21 J	0.16 J	1.9 U	9.7 U	1.9 U	9.7 U	24
Influent	INF	11/1/2010	21,000	1,100	2,000	140 U	190	53 J	170	570	59 J	330	140 U	2,600	29 J	70 J	16 J	680 U	150	680 U	28,000
Intermediate	MID	11/1/2010	1,800	470	1,900	12 U	250	49	140	730	32	290	2.4 J	2,100	8.5 J	23	12	6.8 J	19	7.1 J	7,900
Effluent	EFF	11/1/2010	**300**	**140**	**470**	30 U	30 U	7.9 J	30 U	30 U	**85**	**440**	30 U	**3,900**	30 U	5.6 J	30 U	16 J	30 U	150 U	5,400
Influent	INF	12/10/2010	25,000	1,200	2,400	160 U	160	59 J	190	520	54 J	340	160 U	2,800	25 J	52 J	37 J	810 U	160 U	810 U	33,000
Intermediate	MID	12/10/2010	69	24 U	4,500	24 U	16 J	170	24 U	500	64	440	2.8 J	3,800	3 J	7.6 J	4.9 J	120 U	24 U	120 U	9,600
Effluent	EFF	12/10/2010	**43**	6.8 J	**2,000**	23 U	2 J	**42**	23 U	7.3 J	**100**	**620**	1.7 J	**4,700**	2.1 J	15 J	23 U	120 U	23 U	120 U	7,500
Influent	INF	1/12/2011	21,000	990	1,900	160 U	130 J	35 J	120 J	350	1,200	280	160 U	2,000	98 J	330	110 J	780 U	160 U	780 U	29,000
Intermediate	MID	1/12/2011	11 J	14 U	28	14 U	14 U	14 U	14 U	14 U	170	420	2.7 J	2,700	4.2 J	4.7 J	14 U	69 U	14 U	69 U	3,300
Effluent	EFF	1/12/2011	0.97 J	2.5 U	0.39 J	0.57 J	2.5 U	2.5 U	2.5 U	2.5 U	**8**	**64**	**5**	**370**	0.88 J	0.23 J	2.5 U	12 U	2.5 U	12 U	450
Influent	INF	2/25/2011	23,000	880	1,800	130 U	73 J	27 J	130	240	130 U	290	130 U	1,800	120 J	660	220	20 J	130 U	670 U	30,000
Intermediate	MID	2/25/2011	190	23	1,200	8.6 U	17	18	3.2 J	51	25	560	2.1 J	1,600	38	43	2.4 J	43 U	8.6 U	43 U	3,800
Effluent	EFF	2/25/2011	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	**4**	**140**	**3**	**520**	0.24 J	2.4 U	2.4 U	12 U	2.4 U	12 U	670
Influent	INF	4/11/2011	1,700	52	2,300	44 U	6.1 J	32 J	44 U	33 J	42 J	690	44 U	4,400	9.8 J	90	54	220 U	44 U	220 U	9,400
Intermediate	MID	4/11/2011	430	11	7	1.7 U	1.5 J	1.7 U	1.3 J	0.52 J	6	87	5	330	0.71 J	0.53 J	0.17 J	8.7 U	8	1.2 J	890
Effluent	EFF	4/11/2011	**260**	**6**	2 J	2.5 U	0.25 J	2.5 U	2.5 U	2.5 U	2.5 U	**3**	0.75 J	**9**	0.91 J	0.95 J	0.26 J	13 U	**22**	2.6 J	310
Influent	INF	5/16/2011	11,000	620	1,000	67 U	48 J	19 J	78	110	67 U	140	67 U	820	28 J	160	320	340 U	67 U	340 U	14,000
Intermediate	MID	5/16/2011	2 J	2.5 U	620	2.5 U	0.34 J	6	2.5 U	6	13	92	1.5 J	210	0.59 J	2.5 U	2.5 U	12 U	22	12 U	970
Effluent	EFF	5/16/2011	0.92 J	1.7 U	**27**	1.7 U	1.7 U	1.7 U	1.7 U	0.34 J	**9**	**31**	1.6 J	**30**	0.52 J	0.27 J	1.7 U	8.7 U	**21**	2 J	120

Table D4
Omega Chemical Superfund Site
Interim Soil Vapor Extraction System
GAC Analytical Results

Old Effluent Permit Limit*			4,328	364	2,382	3.9	118	23	2.7	125	8.1	43,625	0.03	1,360	4.8	5.5	0.14	92	10	3,320	
Updated Effluent Permit Limit (Aug'10)*			770	47	61	4.4	4.9	2.4	3.7	30	390	700	200	59	1.1	4.2	2	1200	470	1400	
Updated Effluent Permit Limit (Jun'11)*			92	170	2700	170	170	170	170	34	890	3100	160	3000	52	27	170	870	2100	200	
Sample ID		**Sample Date**	**PCE**	**TCE**	**11DCE**	**VC**	**111TCA**	**11DCA**	**12DCA**	**CF**	**MC**	**Freon11**	**Freon12**	**Freon113**	**BEN**	**TOL**	**XYL**	**CD**	**MEK**	**IP**	Total VOCs[%]
Influent	INF	6/28/2011	3,200	340	600	15 U	89	9.9 J	16	66	5.9 J	85	15 U	360	5.8 J	3.5 J	5.5 J	74 U	15 U	74 U	4,800
Intermediate	MID	6/28/2011	0.53 J	2.4 U	380	2.4 U	0.7 J	3	2.4 U	6	10	64	0.39 J	71	0.83 J	0.4 J	2.4 U	12 U	3	12 U	540
Effluent	EFF	6/28/2011	0.65 J	1.9 U	**90**	1.9 U	1.9 U	0.37 J	1.9 U	1.9 U	**9**	**33**	0.2 J	**8**	0.5 J	0.29 J	1.9 U	9.4 U	**3**	9.4 U	150
Influent	INF	7/18/2011	11,000	530	980	52 U	73	52 U	77	95	52 U	120	52 U	690	22 J	8.5 J	52 U	260 U	52 U	260 U	14,000
Intermediate	MID	7/18/2011	31	1.7 J	780	5.9 U	1.3 J	5.2 J	5.9 U	12	8	120	0.96 J	100	2 J	1.2 J	5.9 U	29 U	5.9 U	29 U	1,100
Effluent	EFF	7/18/2011	0.9 J	1.8 U	**280**	1.8 U	1.8 U	1.1 J	1.8 U	0.63 J	**14**	**93**	1.5 J	**18**	1.7 J	0.33 J	1.8 U	8.9 U	**12**	8.9 U	420
Influent	INF	8/30/2011	8,500	340	510	48 U	100	48 U	61	53	48 U	80	48 U	350	48 U	48 U	48 U	240 U	48 U	240 U	10,000
Intermediate	MID	8/30/2011	97	11	1,000	5.2 U	6	25	9	86	6	120	5.2 U	570	5.2 U	1.1 J	5.2 U	16 J	5.2 U	8.2 J	2,000
Effluent	EFF	8/30/2011	**3,200**	**1,000**	**1,800**	17 U	**210**	**32**	**250**	**240**	7.5 J	**140**	17 U	**1,600**	5.4 J	2.4 J	17 U	84 U	17 U	26 J	8,500
Influent	INF	9/7/2011	2.2 U	0.51 J	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.71 J	2.2 U	0.47 J	1 J	1.5 J	11 U	10	11 U	14
Intermediate	MID	9/7/2011	1.8 U	1.8 U	0.28 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.92 J	1.8 U	1.2 J	1.8 U	1.8 U	0.31 J	1.8 U	1.7 J	2	9 U	6
Effluent	EFF	9/7/2011	**8**	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	1.1 J	2.3 U	1 J	0.88 J	2.3 U	11 U	**9**	11 U	20
Influent	INF	10/10/2011	6,500	170	270	42 U	44	26 J	46	110	14 J	34 J	5.1 J	240	11 J	32 J	9.8 J	210 U	42 U	210 U	7,500
Intermediate	MID	10/10/2011	2.5 U	3	410	2.5 U	8	3	4	11	8	37	1 J	67	2.5 U	2.5 U	2.5 U	12 U	2.5 U	12 U	550
Effluent	EFF	10/10/2011	1.7 U	1.7 U	**41**	1.7 U	1.7 U	0.24 J	1.7 U	0.59 J	**8**	**18**	1.1 J	**17**	0.46 J	1.1 J	1.7 U	1.5 J	**2**	8.7 U	91
Influent	INF	11/7/2011	7,300	210	390	40 U	27 J	40 U	48	37 J	40 U	50	40 U	230	9 J	19 J	30 J	200 U	40 U	200 U	8,400
Intermediate	MID	11/7/2011	370	59	580	5.1 U	33	11	24	49	5	72	5.1 U	290	1.9 J	5	11	25 U	5.1 U	25 U	1,500
Effluent	EFF	11/7/2011	**30**	3.7 U	**610**	3.7 U	**7**	**6**	1.1 J	**15**	**9**	**130**	1 J	**390**	3.7 U	1.3 J	2.1 J	18 U	3.7 U	18 U	1,200
Influent	INF	12/19/2011	4,500	120	240	22 U	12 J	22 U	33	28	22 U	43	1.4 J	170	22 U	6.3 J	22 U	6.4 J	22 U	110 U	5,200
Intermediate	MID	12/19/2011	0.22 J	1.6 U	220	1.6 U	2	3	2	10	2	14	0.77 J	34	1.6 U	0.36 J	1.6 U	7.9 U	1.6 U	7.9 U	290
Effluent	EFF	12/19/2011	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.71 J	1.7 U	0.37 J	0.52 J	1.7 U	8.4 U	1.7 U	8.4 U	2

Notes:

*Permit limits presented in the proposed permit conditions (July, 2010) were updated in August, 2010 and again in June 2011. These limits are based on risk calculations for best available control technology for Toxic (TBACT) limit of 10-in-1-million for cancer.
[%]Total VOC concentration equals the sum of all detected concentration rounded to the nearest two significant figures.
Influent - sample taken at the influent of the lead carbon vessel
Intermediate - sample taken between the lead and the lag vessel
Effluent - sample taken at the effluent of the lag vessel
J = Results is detected as an estimated value above the laboratory detection limit, but below the reporting limit
U = Not detected above reporting limit listed
BOLD = concentrations detected above reporting limits

PCE - Tetrachloroethene
TCE - Trichloroethene
11DCE - 1,1-Dichloroethene
VC - Vinyl Chloride
111TCA - 1,1,1-Trichloroethane
11DCA - 1,1-Dichloroethane
12DCA - 1,2-Dichloroethane
CF - Chloroform

MC - Methylene Chloride
Freon11 - Trichlorofluoromethane
Freon12 - Dichlorodifluoromethane
Freon113 - 1,1,2-Trichloro-1,2,2-trifluoroethane
BEN - Benzene
TOL - Toluene
XYL - o-Xylene
CD - Carbon Dissulfide

MEK - Methyl Ethyl Ketone (2-Butanone)
IP - Isopropanol

Effluent concentrations detected above permit effluent limits*

Table D5
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - Cumulative Mass Removal

	Cumulative Mass Removed																		
	PCE	TCE	11DCE	VC	111TCA	11DCA	12DCA	CF	MC	Freon11	Freon12	Freon113	BEN	TOL	XYL	CD	MEK	IP	**TOTAL$**
Date	lb																		
6/9/10	48	2	3	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	**59**
6/14/10	115	6	8	0	1	0	0	1	0	1	0	9	0	0	0	0	0	0	**142**
6/15/10	203	10	14	0	1	0	0	2	1	2	0	15	0	0	0	1	0	0	**251**
6/16/10	294	15	20	0	2	1	0	3	1	3	0	22	0	1	1	1	0	0	**364**
6/17/10	373	19	26	0	2	1	0	4	2	4	0	29	0	1	1	1	1	0	**463**
6/18/10	458	23	31	0	2	1	0	6	2	5	0	35	0	1	1	2	1	1	**569**
6/19/10	527	27	36	0	3	1	0	7	2	5	0	41	0	1	1	2	1	1	**656**
6/20/10	602	30	41	0	3	1	0	8	2	6	0	47	0	1	1	3	1	1	**749**
6/21/10	660	33	45	0	4	1	0	9	3	7	0	52	0	2	1	3	1	1	**821**
6/21/10	660	33	45	0	4	1	0	9	3	7	0	52	0	2	1	3	1	1	**821**
6/23/10	773	39	52	0	4	1	0	11	3	8	0	61	0	2	2	4	1	1	**965**
6/30/10	1077	56	70	0	6	2	1	20	5	10	0	93	1	3	2	12	2	4	**1363**
7/7/10	1427	73	82	1	7	3	2	28	6	13	2	118	1	3	3	17	3	8	**1795**
7/9/10	1510	77	85	1	7	3	2	30	6	13	2	124	1	3	4	18	3	9	**1898**
7/13/10	1510	77	85	1	7	3	2	30	6	13	2	124	1	3	4	18	3	9	**1898**
7/14/10	1541	78	86	2	8	3	2	31	6	13	2	126	1	3	4	19	3	9	**1936**
7/20/10	1755	88	94	2	9	3	2	36	7	15	3	142	1	3	4	21	3	11	**2200**
7/23/10	1849	93	98	2	9	4	3	38	7	15	3	149	1	3	5	22	4	12	**2316**
7/27/10	1947	98	103	2	9	4	3	41	7	16	3	158	1	3	5	22	4	12	**2438**
7/28/10	1947	98	103	2	9	4	3	41	7	16	3	158	1	3	5	22	4	12	**2438**
8/3/10	1947	98	103	2	9	4	3	41	7	16	3	158	1	3	5	22	4	12	**2438**
8/4/10	1967	99	103	2	10	4	3	42	7	16	3	159	1	3	5	22	4	12	**2462**
8/6/10	2006	101	105	2	10	4	3	43	7	16	3	163	1	3	5	22	4	12	**2511**
8/9/10	2045	103	108	2	10	4	3	44	7	17	3	168	1	4	5	23	4	13	**2563**

Table D5
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - Cumulative Mass Removal

	Cumulative Mass Removed																		
	PCE	TCE	11DCE	VC	111TCA	11DCA	12DCA	CF	MC	Freon11	Freon12	Freon113	BEN	TOL	XYL	CD	MEK	IP	**TOTAL[s]**
Date	lb																		
8/9/10	2045	103	108	2	10	4	3	44	7	17	3	168	1	4	5	23	4	13	**2563**
8/10/10	2056	103	108	2	10	4	3	44	7	17	3	170	1	4	5	23	4	13	**2579**
8/13/10	2090	105	111	2	10	4	3	46	8	17	3	175	2	4	5	23	4	13	**2625**
8/17/10	2112	106	112	2	11	4	3	46	8	18	3	178	2	4	5	23	4	13	**2655**
8/20/10	2144	108	114	2	11	4	3	48	8	18	3	183	2	4	5	24	4	14	**2697**
8/24/10	2186	110	116	2	11	4	4	49	8	18	3	189	2	5	5	24	4	14	**2754**
9/1/10	2270	114	121	2	12	5	4	52	8	19	3	200	2	5	5	24	5	14	**2866**
9/2/10	2281	115	122	2	12	5	4	52	8	19	3	202	2	5	5	24	5	14	**2880**
9/2/10	2281	115	122	2	12	5	4	52	8	19	3	202	2	5	5	24	5	14	**2880**
9/8/10	2350	118	125	2	12	5	4	54	8	20	3	211	2	6	5	24	5	14	**2970**
9/10/10	2369	119	126	2	13	5	4	54	8	20	3	214	2	6	5	24	5	14	**2995**
9/15/10	2419	121	129	2	13	5	5	56	8	21	3	220	2	6	5	24	5	14	**3059**
9/22/10	2491	124	132	2	14	5	5	57	8	21	3	229	2	7	5	24	5	14	**3151**
9/24/10	2509	125	133	2	14	5	5	58	9	22	3	231	2	7	5	24	5	14	**3174**
9/28/10	2552	127	135	2	14	5	5	59	9	22	3	236	2	7	5	24	5	14	**3228**
9/29/10	2565	128	136	2	14	5	5	59	9	22	3	237	2	7	5	24	5	14	**3245**
10/4/10	2565	128	136	2	14	5	5	59	9	22	3	237	2	7	5	24	5	14	**3245**
10/5/10	2565	128	136	2	14	5	5	59	9	22	3	237	2	7	5	24	5	14	**3245**
10/6/10	2576	128	136	2	14	5	5	59	9	22	3	239	2	7	5	24	5	14	**3258**
10/8/10	2595	129	137	2	14	5	5	60	9	22	3	241	2	7	5	24	5	14	**3282**
10/12/10	2616	130	138	2	15	5	5	60	9	23	3	243	2	7	5	25	5	14	**3308**
10/15/10	2636	130	139	2	15	5	6	60	9	23	3	246	2	7	5	25	5	14	**3333**
10/19/10	2664	132	141	2	15	5	6	61	9	23	3	249	2	7	5	25	5	14	**3369**
10/22/10	2688	133	142	2	15	5	6	61	9	23	3	252	2	7	5	25	5	15	**3399**
10/26/10	2712	134	143	2	15	5	6	62	9	24	3	255	2	7	5	25	5	15	**3429**
10/29/10	2728	134	144	2	16	5	6	62	9	24	3	257	2	7	5	25	6	15	**3450**
11/1/10	2743	135	145	2	16	5	6	63	9	24	3	259	2	7	5	25	6	15	**3469**

Table D5
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - Cumulative Mass Removal

Date	Cumulative Mass Removed																		
	PCE	TCE	11DCE	VC	111TCA	11DCA	12DCA	CF	MC	Freon11	Freon12	Freon113	BEN	TOL	XYL	CD	MEK	IP	**TOTAL[$]**
	lb																		
11/1/10	2743	135	145	2	16	5	6	63	9	24	3	259	2	7	5	25	6	15	**3469**
11/3/10	2749	135	145	2	16	5	6	63	9	24	3	260	2	7	5	25	6	15	**3477**
11/5/10	2761	136	146	2	16	6	6	63	9	24	3	262	2	7	5	25	6	15	**3494**
11/9/10	2783	137	147	2	16	6	6	63	9	25	3	265	2	7	5	25	6	15	**3522**
11/12/10	2796	137	148	2	16	6	6	64	9	25	3	267	2	7	5	25	6	15	**3538**
11/16/10	2813	138	149	2	16	6	6	64	9	25	4	269	2	7	5	25	6	15	**3560**
11/19/10	2825	138	149	2	16	6	6	64	9	25	4	271	2	7	5	25	6	15	**3575**
11/23/10	2843	139	150	2	16	6	7	64	9	25	4	273	2	7	5	25	6	15	**3598**
11/26/10	2853	139	151	2	16	6	7	65	9	25	4	274	2	7	5	25	6	15	**3610**
12/1/10	2863	140	151	2	16	6	7	65	9	26	4	276	2	7	5	25	6	15	**3623**
12/3/10	2863	140	151	2	16	6	7	65	9	26	4	276	2	7	5	25	6	15	**3624**
12/10/10	2870	140	152	2	16	6	7	65	9	26	4	276	2	7	5	25	6	15	**3632**
12/14/10	2891	141	153	2	17	6	7	65	9	26	4	279	2	7	5	25	6	15	**3658**
12/15/10	2891	141	153	2	17	6	7	65	9	26	4	279	2	7	5	25	6	15	**3658**
12/17/10	2904	141	154	2	17	6	7	65	9	26	4	281	2	7	5	25	6	15	**3676**
12/21/10	2930	142	155	2	17	6	7	66	10	26	4	284	3	7	5	25	6	15	**3709**
12/24/10	2946	143	156	2	17	6	7	66	10	26	4	286	3	7	5	25	6	15	**3729**
12/28/10	2994	145	159	2	17	6	7	66	11	27	4	291	3	8	6	25	6	15	**3790**
12/30/10	3006	145	159	2	17	6	7	67	11	27	4	292	3	8	6	25	6	15	**3805**
1/6/11	3096	148	164	2	18	6	7	68	13	28	4	302	3	9	6	25	6	15	**3920**
1/12/11	3129	150	166	2	18	6	8	68	14	29	4	306	3	9	6	25	6	15	**3962**
1/19/11	3164	151	168	2	18	6	8	69	15	29	4	310	3	9	6	25	6	15	**4007**
1/26/11	3192	152	169	2	18	6	8	69	16	29	4	312	3	9	6	25	6	15	**4042**
1/27/11	3195	152	169	2	18	6	8	69	16	29	4	313	3	10	6	25	6	15	**4046**
2/2/11	3210	153	170	2	18	6	8	69	16	29	4	314	3	10	6	25	6	15	**4064**

Table D5
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - Cumulative Mass Removal

Date	Cumulative Mass Removed																		
	PCE	TCE	11DCE	VC	111TCA	11DCA	12DCA	CF	MC	Freon11	Freon12	Freon113	BEN	TOL	XYL	CD	MEK	IP	**TOTAL[s]**
	lb																		
2/8/11	3210	153	170	2	18	6	8	69	16	29	4	314	3	10	6	25	6	15	**4064**
2/9/11	3215	153	170	2	18	6	8	69	16	29	4	315	3	10	6	25	6	15	**4070**
2/17/11	3260	154	172	3	18	6	8	69	16	30	4	319	3	10	7	25	6	15	**4125**
2/23/11	3286	155	173	3	18	6	8	70	16	30	4	321	3	11	7	25	7	15	**4157**
2/25/11	3296	155	174	3	18	6	8	70	16	30	4	322	3	11	7	25	7	15	**4170**
2/28/11	3309	156	175	3	18	6	8	70	16	30	4	324	3	11	7	25	7	15	**4186**
3/7/11	3332	156	177	3	18	6	8	70	16	31	4	329	3	12	7	25	7	15	**4219**
3/14/11	3356	157	180	3	19	6	8	70	17	32	4	341	3	12	7	25	7	15	**4261**
3/22/11	3356	157	180	3	19	6	8	70	17	32	4	341	3	12	7	25	7	15	**4261**
3/23/11	3356	157	180	3	19	6	8	70	17	32	4	341	3	12	7	25	7	15	**4261**
4/4/11	3356	157	180	3	19	6	8	70	17	32	4	341	3	12	7	25	7	15	**4261**
4/7/11	3362	157	183	3	19	6	8	70	17	33	4	349	3	12	7	25	7	15	**4280**
4/11/11	3365	157	184	3	19	6	8	70	17	34	4	356	3	12	7	25	7	15	**4292**
4/18/11	3371	157	188	3	19	6	8	70	17	36	4	370	3	12	7	25	7	15	**4319**
4/21/11	3371	157	188	3	19	6	8	70	17	36	4	370	3	12	7	25	7	15	**4319**
4/26/11	3371	157	188	3	19	6	8	70	17	36	4	370	3	12	7	25	7	15	**4319**
4/28/11	3383	158	189	3	19	6	8	70	17	36	4	371	3	12	8	25	7	15	**4334**
5/3/11	3422	160	191	3	19	6	9	71	17	37	4	375	4	13	8	25	7	15	**4383**
5/5/11	3422	160	191	3	19	6	9	71	17	37	4	375	4	13	8	25	7	15	**4383**
5/5/11	3422	160	191	3	19	6	9	71	17	37	4	375	4	13	8	25	7	15	**4383**
5/10/11	3463	162	194	3	19	6	9	71	17	37	4	379	4	13	9	25	7	15	**4435**
5/16/11	3497	163	195	3	19	6	9	71	17	37	4	382	4	13	10	25	7	15	**4478**
5/18/11	3497	163	195	3	19	6	9	71	17	37	4	382	4	13	10	25	7	15	**4478**

Table D5
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - Cumulative Mass Removal

	Cumulative Mass Removed																		
	PCE	TCE	11DCE	VC	111TCA	11DCA	12DCA	CF	MC	Freon11	Freon12	Freon113	BEN	TOL	XYL	CD	MEK	IP	**TOTAL[$]**
Date	lb																		
6/3/11	3497	163	195	3	19	6	9	71	17	37	4	382	4	13	10	25	7	15	**4478**
6/6/11	3513	164	196	3	19	6	9	71	17	38	4	383	4	13	10	25	7	15	**4497**
6/13/11	3538	165	198	3	19	6	9	72	17	38	4	386	4	14	10	25	7	15	**4529**
6/20/11	3555	166	199	3	19	7	9	72	17	38	4	388	4	14	11	25	7	15	**4552**
6/28/11	3567	167	200	3	20	7	9	72	17	38	4	389	4	14	11	25	7	15	**4568**
7/5/11	3588	168	202	3	20	7	9	72	17	39	4	391	4	14	11	25	7	15	**4595**
7/11/11	3614	170	204	3	20	7	9	72	17	39	4	393	4	14	11	25	7	15	**4626**
7/18/11	3655	171	206	3	20	7	10	73	17	39	4	396	4	14	11	25	7	15	**4675**
7/25/11	3694	173	208	3	21	7	10	73	17	40	4	398	4	14	11	25	7	15	**4721**
8/1/11	3732	174	209	3	21	7	10	73	17	40	4	401	4	14	11	25	7	15	**4765**
8/10/11	3770	175	211	3	21	7	10	73	17	40	4	403	4	14	11	25	7	15	**4809**
8/15/11	3796	176	212	3	21	7	10	73	17	41	4	404	4	14	11	25	7	16	**4840**
8/23/11	3833	177	213	3	22	7	10	74	17	41	4	406	4	14	11	25	7	16	**4882**
8/30/11	3837	177	214	3	22	7	10	74	17	41	4	406	4	14	11	25	7	16	**4887**

Table D5
Omega ChemicalSuperfund Site
Interim Soil Vapor Extraction System
System Performance Monitoring - Cumulative Mass Removal

	Cumulative Mass Removed																		
	PCE	TCE	11DCE	VC	111TCA	11DCA	12DCA	CF	MC	Freon11	Freon12	Freon113	BEN	TOL	XYL	CD	MEK	IP	**TOTAL$**
Date	lb																		
9/7/11	3837	177	214	3	22	7	10	74	17	41	4	406	4	14	11	25	7	16	**4887**
9/12/11	3853	178	214	3	22	7	10	74	17	41	4	407	4	14	11	25	7	16	**4905**
9/19/11	3877	178	215	3	22	7	11	74	17	41	4	408	4	14	11	25	7	16	**4932**
9/26/11	3901	179	215	3	22	7	11	74	17	41	4	409	4	14	11	25	7	16	**4959**
10/3/11	3925	179	216	3	22	7	11	75	17	41	4	410	4	14	11	25	7	16	**4986**
10/10/11	3947	180	216	3	22	7	11	75	17	41	4	411	4	14	11	25	7	16	**5010**
10/17/11	3972	180	217	3	22	7	11	75	17	41	4	412	4	14	11	25	7	16	**5039**
10/24/11	3998	181	218	3	23	7	11	75	17	42	4	413	4	14	11	25	7	16	**5067**
10/31/11	4024	181	218	3	23	7	11	75	17	42	4	414	4	14	11	25	7	16	**5097**
11/7/11	4052	182	219	3	23	7	11	76	17	42	4	415	4	14	11	25	7	16	**5128**
11/14/11	4078	183	220	3	23	7	11	76	17	42	4	416	4	14	11	25	7	16	**5157**
11/21/11	4102	183	221	3	23	7	11	76	17	42	4	417	4	14	11	25	7	16	**5183**
11/28/11	4123	184	221	3	23	7	12	76	17	42	4	418	4	14	11	25	7	16	**5207**
12/5/11	4143	184	222	3	23	7	12	76	17	42	4	418	4	14	11	25	7	16	**5229**
12/12/11	4161	184	223	3	23	7	12	76	17	43	4	419	4	14	11	25	7	16	**5250**
12/17/11	4161	184	223	3	23	7	12	76	17	43	4	419	4	14	11	25	7	16	**5250**
12/19/11	4166	185	223	3	23	7	12	76	17	43	4	419	4	14	11	25	7	16	**5255**
12/29/11	4190	185	224	3	23	7	12	76	17	43	4	420	4	15	11	25	7	16	**5283**

Note:
$Total cumulative mass is calculated mass removal based on individual constituents that has been detected at least once, not based on Total VOC concentration reported in the analytical reports.
Reporting limit is used if selected constituent is non-detect in the sample.

lb = Pound

PCE - Tetrachloroethene
TCE - Trichloroethene
11DCE - 1,1-Dichloroethene
VC - Vinyl Chloride
111TCA - 1,1,1-Trichloroethane
11DCA - 1,1-Dichloroethane
12DCA - 1,2-Dichloroethane
CF - Chloroform

MC - Methylene Chloride
Freon11 - Trichlorofluoromethane
Freon12 - Dichlorodifluoromethane
Freon113 - 1,1,2-Trichloro-1,2,2-trifluoroethane
BEN - Benzene
TOL - Toluene
XYL - o-Xylene
CD - Carbon Dissulfide

MEK - Methyl Ethyl Ketone (2-Butanone)
IP - Isopropanol

Table D6
Omega Chemical Superfund Site
Overall Cumulative Mass Removal

	Start Date	End Date	Hours of Operation (hr)	VOC Mass Removed (lb)
Pilot Test	10/17/2006	12/13/2006	416	415
Extended Pilot Test	6/20/2007	7/20/2007	406	817
ISVE Operation (as of 12/29/2011)	6/14/2010	In Operation	11,096	5,283
Cumulative VOC Mass Removed (Pilot Test, Extended Pilot Test, and ISVE Operation)				6,515

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VE-01M	06/09/10	ORIG	790000	14000	1500 J	27000 U	20000 U	20000 U	69000	19000 U	19000 U	2500 J	20000 U	17000 U	5600	28000	24000 U	10000 J	14000 U	20000 U	18000 U	76000 U	16000 U	660 J	21000 U	21000 U	21000 U	60000 U	86000 U	12000 U	86000 U	920000
	09/08/10	ORIG	150000	22000	1100 U	1100 U	860 J	1100 U	48000	1100 U	1100 U	13000	2200 U	1100 U	2500	4500	1100 U	3300 J	1100 U	1100 U	1100 U	5600 U	190 J	510 J	210 J	780 J	390 J	5600 U	150 J	1100 U	5600 U	250000
	01/12/11	ORIG	550 J	74 J	3.4 U	3.4 U	1.7 J	0.37 J	210 J	3.4 U	3.4 U	54 J	0.92 J	3.6 J	15 J	29 J	0.75 J	25 J	2.7 J	3.4 U	3.4 U	17	2 J	10 J	0.95 J	2.4 J	1.4 J	2.2 J	0.99 J	3.4 U	17 U	1000
	04/11/11	ORIG	9500	1500	58 U	58 U	18 J	58 U	5900	58 U	58 U	320	120 U	58 U	290	370	58 U	100 J	58 U	58 U	58 U	290 U	16 J	15 J	58 U	16 J	6.5 J	290 U	290 U	58 U	290 U	18000
	04/11/11	DUP	24000	3600	150 U	150 U	44 J	150 U	15000	150 U	150 U	790	290 U	150 U	730	930	150 U	330 J	150 U	150 U	150 U	730 U	38 J	140 J	110 J	270	98 J	730 U	730 U	150 U	730 U	46000
	06/30/11	ORIG	1300	57	1 J	7.1 U	7.1 U	4 J	150	8.7	7.1 U	11	14 U	7.1 U	18	34	0.83 J	35	7.1 U	7.1 U	7.1 U	35 U	2.1 J	3.2 J	18	25	8.9	35 U	35 U	7.1 U	19 J	1700
	06/30/11	DUP	690	29	0.7 J	3.2 U	3.2 U	2.6 J	90	3.2 U	3.2 U	6.9	6.4 U	3.2 U	11	21	0.65 J	43	6.9	3.2 U	3.2 U	2.6 J	1.2 J	1.1 J	3.2 U	3.2 U	3.2 U	16 U	1.3 J	3.2 U	5.8 J	910
	09/07/11	ORIG	1300	130	1.7 J	5.6 U	2 J	3.2 J	1200	5.6 U	5.6 U	24	11 U	2.6 J	79	98	5.6 U	600	43	14	5.6 U	8.4 J	2.5 J	2.9 J	0.57 J	5.6 U	0.86 J	12 J	1.6 J	5.6 U	12 J	3500
	12/20/11	ORIG	780	72	2.2 J	4.7 U	4.7 U	4.7 U	730	4.7 U	4.7 U	6.8	9.4 U	4.7 U	64	100	0.95 J	12 J	4.7 U	2.9 J	4.7 U	23 U	1.1 J	5.4	1.6 J	7.2 J	2.4 J	23 U	23 U	4.7 U	8.1 J	1800
	12/20/11	DUP	940	78	2.2 J	5.6 U	0.9 J	1.8 J	770	5.6 U	5.6 U	6.9	11 U	5.6 U	67	100	0.98 J	23 J	5.6 U	5.6 U	5.6 U	28 U	1.2 J	8.2	2.9 J	13 J	4.3 J	28 U	28 U	5.6 U	9.7 J	2000
VE-01S	06/09/10	ORIG	77000	2100	180 J	2700 U	2000 U	2000 U	20000	1900 U	1900 U	240 J	2000 U	1700 U	2100	5300	2400 U	6100	780	2000 U	1800 U	370 J	77 J	380 J	140 J	260 J	140 J	6000 U	8600 U	1200 U	8800 U	120000
	08/13/10	ORIG	17000 J	2000 J	450 UJ	450 UJ	42 J	15 J	5700 J	330 UJ	13 J	400 J	340 UJ	290 UJ	330 J	460 J	410 UJ	200 J	240 UJ	340 UJ	300 UJ	77 J	11 J	18 J	360 UJ	360 UJ	360 UJ	64 J	1500 UJ	210 UJ	1500 UJ	26000 J
	09/08/10	ORIG	12000	1600	62 U	62 U	35 J	62 U	4500	13 J	62 U	430	120 U	62 U	220	310	62 U	230 J	62 U	62 U	62 U	310 U	16 J	1700	320	140	33 J	310 U	19 J	62 U	310 U	22000
	10/06/10	ORIG	9000	1400	44 U	44 U	26 J	44 U	3500	44 U	44 U	350	88 U	6.4 J	150	230	6.5 J	210 J	44 U	44 U	44 U	19 J	12 J	13 J	44 U	44 U	44 U	12 J	220 U	44 U	220 U	15000
	11/03/10	ORIG	9500	1200	45 U	45 U	27 J	23 J	3500	45 U	8.1 J	350	90 U	8.8 J	330	1000	45 U	81 J	45 U	45 U	45 U	230 U	16 J	17 J	45 U	45 U	45 U	230 U	230 U	45 U	230 U	16000
	12/10/10	ORIG	6800	1300	42 U	42 U	17 J	42 U	3300	42 U	42 U	320	84 U	6.4 J	140	220	42 U	62 J	42 U	42 U	42 U	210 U	6.1 J	12 J	42 U	42 U	8 J	210 U	210 U	42 U	210 U	12000
	01/12/11	ORIG	3400	760	9 J	21 U	7.8 J	5.4 J	1700	21 U	21 U	160	7.9 J	140	98	200	21 U	47 J	21 U	21 U	21 U	9.8 J	10 J	9.4 J	21 U	6.3 J	2.6 J	110 U	7.6 J	21 U	110 U	6600
	02/25/11	ORIG	19	0.24 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.79 J	2 U	0.69 J	2 U	0.75 J	39	2.1	2 U	2 U	9.9 U	1.1 J	3.2	0.44 J	1.6 J	0.51 J	1.1 J	1.6 J	2 U	9.9 U	72
	04/11/11	ORIG	790	210	7.3 U	7.3 U	7.3 U	7.3 U	500	7.3 U	7.3 U	17	15 U	7.3 U	24	35	0.92 J	130	7.5	7.3 U	7.3 U	36 U	2 J	5 J	1.3 J	4.8 J	2.5 J	2.8 J	36 U	7.3 U	36 U	1700
	05/16/11	ORIG	55	13	2 U	2 U	2 U	2 U	25	2 U	2 U	0.67 J	4 U	2 U	1.2 J	1.5 J	0.48 J	12	2 U	2 U	2 U	10 U	0.63 J	0.54 J	2 U	0.52 J	2 U	10 U	10 U	2 U	10 U	110
	06/28/11	ORIG	0.49 J	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.66 J	23	8.4	2.1 U	2.1 U	11 U	0.54 J	0.76 J	2.1 U	0.63 J	2.1 U	2.4 J	11 U	2.1 U	11 U	37
	07/18/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	7.5	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	1.5 J	0.96 J	0.62 J	44	14	2.2 U	2.2 U	11 U	0.67 J	1 J	2.2 U	2.2 U	2.2 U	2.4 J	0.57 J	2.2 U	11 U	76
	08/30/11	ORIG	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.68 J	2 U	2 U	2 U	0.66 J	15	1.8 J	2 U	2 U	10 U	0.43 J	1.8 J	0.31 J	1.3 J	0.47 J	1.9 J	10 U	2 U	10 U	24
	09/07/11	ORIG	220	40	11 U	11 U	11 U	11 U	180	11 U	11 U	2.3 J	22 U	11 U	7.9 J	9.1 J	11 U	93	11 U	13	11 U	8.2 J	11 U	5.4 J	1.3 J	11	5.8 J	55 U	55 U	11 U	55 U	600
	10/10/11	ORIG	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.73 J	1.9 U	1.9 U	1.9 U	0.65 J	20	1.9 U	1.9 U	1.9 U	9.7 U	0.57 J	1.7 J	1.9 U	0.51 J	1.9 U	9.7 U	9.7 U	1.9 U	9.7 U	24
	11/07/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	1 J	2.1 U	2.1 U	2.1 U	0.73 J	9.5 J	2.1 U	2.1 U	2.1 U	11 U	0.68 J	0.77 J	2.1 U	2.1 U	2.1 U	11 UJ	11 U	2.1 U	11 U	13
	12/19/11	ORIG	0.46 J	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	0.87 J	2.1 U	2.1 U	2.1 U	4.2 U	0.88 J	0.98 J	1.8 J	0.67 J	15	3.4	2.1 U	2.1 U	11 U	2.1 U	0.58 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	25
VE-02M	06/09/10	ORIG	18000	270	19 J	540 U	400 U	400 U	1100	390 U	390 U	40 J	410 U	340 U	130	420	490 U	1200 U	290 U	410 U	360 U	1500 U	320 U	7.8 J	430 U	430 U	430 U	1200 U	1700 U	250 U	1800 U	20000
	09/08/10	ORIG	4100	390	21 U	21 U	10 J	21 U	580	21 U	21 U	170	43 U	21 U	30	55	21 U	40 J	21 U	21 U	21 U	18 J	2.3 J	4.1 J	21 U	21 U	21 U	110 U	110 U	21 U	46 J	5400
	01/12/11	ORIG	260	12	1.7 U	1.7 U	1.7 U	1.7 U	11	1.7 U	0.42 J	0.33 J	3.5 U	1.7 U	1 J	1.5 J	0.79 J	12	1.7 U	1.7 U	1.7 U	8.7 U	1 J	0.36 J	1.7 U	1.7 U	1.7 U	8.7 U	8.7 U	1.7 U	68	370
	04/11/11	ORIG	310	25	0.71 J	0.3 J	1.8 U	1.8 U	12	1.8 U	0.62 J	0.45 J	3.7 U	1.8 U	0.67 J	0.76 J	0.85 J	23	4.1	1.8 U	1.8 U	2 J	0.5 J	0.3 J	0.34 J	0.82 J	0.9 J	0.72 J	9.2 U	1.8 U	51	440
	06/30/11	ORIG	50	2.8	1.8 U	1.8 U	1.8 U	1.8 U	2.3	1.8 U	1.8 U	1.8 U	3.5 U	1.8 U	1.8 U	1.8 U	0.59 J	24	3.8	1.8 U	1.8 U	1.5 J	0.48 J	0.38 J	1.8 U	1.8 U	1.8 U	8.9 U	8.9 U	1.8 U	5.3 J	91

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VE-02M	09/07/11	ORIG	27	2	1.8 U	1.8 U	1.8 U	1.8 U	1.6 J	1.8 U	1.8 U	1.8 U	1.3 J	1.8 U	1.8 U	1.8 U	0.7 J	89	7.2	1.8 U	1.8 U	1.7 J	0.62 J	1.1 J	1.8 U	1.8 U	1.8 U	9 U	9 U	1.8 U	9 U	130
	12/20/11	ORIG	24	1.1 J	1.9 U	1.9 U	1.9 U	1.9 U	1.1 J	1.9 U	1.9 U	1.9 U	1.2 J	1.9 U	1.9 U	1.9 U	0.96 J	15	1.9 U	1.9 U	1.9 U	0.97 J	0.74 J	1.9	0.23 J	0.91 J	0.39 J	9.7 U	9.7 U	1.9 U	9.7 U	49
VE-02S	06/09/10	ORIG	60000	7000	2700 U	2700 U	2000 U	2000 U	33000	300 J	250 J	87 J	2000 U	1700 U	880	730	2500 U	1600 J	1500 U	2000 U	1800 U	140 J	52 J	83 J	2200 U	2200 U	2200 U	6100 U	8700 U	1300 U	8700 U	100000
	09/08/10	ORIG	640	51	5.3 U	5.3 U	5.3 U	5.3 U	27	5.3 U	5.3 U	5.8	11 U	5.3 U	1.6 J	2.6 J	0.83 J	120	27	1.7 J	5.3 U	2.8 J	1.2 J	8.8	3.5 J	5.9	2.1 J	27 U	3.7 J	5.3 U	27 U	910
	01/12/11	ORIG	89	6.4	1.8 U	1.8 U	1.8 U	1.8 U	9.1	1.8 U	1.8 U	2.2	3.5 U	1.8 U	0.53 J	1.4 J	0.6 J	16	2.1	1.8 U	1.8 U	8.9 U	1.1 J	0.25 J	1.8 U	1.8 U	0.46 J	0.8 J	8.9 U	1.8 U	4.8 J	130
	04/11/11	ORIG	220	11	1 J	1.7 U	1.7 U	1.7 U	3.9	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	0.56 J	0.67 J	0.81 J	63	4.3	1.7 U	1.7 U	1.1 J	1.3 J	0.17 J	1.7 U	1.7 U	1.7 U	2 J	8.7 U	1.7 U	2.4 J	310
	06/30/11	ORIG	16	1.4 J	1.8 U	1.8 U	1.8 U	1.8 U	1.3 J	1.8 U	1.8 U	1.8 U	3.5 U	1.8 U	1.8 U	1.8 U	0.63 J	41	9.4	1.8 U	1.8 U	2.3 J	0.57 J	0.42 J	1.8 U	0.43 J	1.8 U	8.9 U	8.9 U	1.8 U	8.9 U	73
	09/07/11	ORIG	17	1.8 J	1.9 U	1.9 U	1.9 U	1.9 U	1.4 J	1.9 U	1.9 U	1.9 U	0.9 J	1.9 U	1.9 U	1.9 U	1.9 U	110	8	1.9 U	1.9 U	7.7 J	0.5 J	0.44 J	1.9 U	1.9 U	1.9 U	9.4 U	9.4 U	1.9 U	9.4 U	150
	12/20/11	ORIG	6.9	0.58 J	1.8 U	1.8 U	1.8 U	1.8 U	0.83 J	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	1.8 U	1.8 U	1 J	26	1.8 U	1.8 U	1.8 U	1.1 J	0.64 J	0.99 J	1.8 U	0.67 J	0.31 J	4.2 J	9 U	1.8 U	9 U	43
VE-03M	06/09/10	ORIG	63000	18000	1600 U	1600 U	210 J	1200 U	14000	1200 U	480	75 J	1200 U	1000 U	1000	930	1400 U	670 J	860 U	1200 U	1100 U	140 J	930 U	41 J	1300 U	1300 U	1300 U	3600 U	5100 U	750 U	5300 U	99000
	09/08/10	ORIG	650	75	4.4 U	4.4 U	4.4 U	4.4 U	22	4.4 U	3 J	1.7 J	1.4 J	4.4 U	0.83 J	2.3 J	0.73 J	38	4.4 U	4.4 U	4.4 U	17 J	0.72 J	1.9 J	4.4 U	4.4 U	4.4 U	22 U	0.62 J	4.4 U	22 U	820
	01/12/11	ORIG	61	7.2	1.8 U	1.8 U	1.8 U	1.8 U	8.4	1.8 U	1.8 U	1.8 U	1 J	1.8 U	1.8	2.9	0.93 J	9.1 J	1.8 U	1.8 U	1.8 U	9.2 U	1.4 J	0.77 J	1.8 U	1.8 U	1.8 U	9.2 U	9.2 U	1.8 U	1.1 J	96
	04/11/11	ORIG	330	30	0.99 J	1.7 U	1.7 U	1.7 U	5.7	1.7 U	0.67 J	0.33 J	1.2 J	1.7 U	0.58 J	0.51 J	0.78 J	68	5.5	1.7 U	1.7 U	2.1 J	1.1 J	0.78 J	0.2 J	0.69 J	0.36 J	7.4 J	0.23 J	1.7 U	8.7 U	460
	06/30/11	ORIG	51	6.4	1.8 U	1.8 U	1.8 U	1.8 U	1.7 J	1.8 U	1.8 U	1.8 U	3.5 U	1.8 U	1.8 U	1.8 U	0.66 J	59	12	1.8 U	1.8 U	1.6 J	0.47 J	0.37 J	1.8 U	1.8 U	1.8 U	8.9 U	8.9 U	1.8 U	8.9 U	130
	09/07/11	ORIG	60	9.2	0.56 J	1.8 U	1.8 U	1.8 U	2.6	1.8 U	1.8 U	1.8 U	0.76 J	1.8 U	1.8 U	0.56 J	1.8 U	130	26	1.8 U	1.8 U	1.8 J	0.4 J	0.36 J	1.8 U	1.8 U	1.8 U	9 U	9 U	1.8 U	9 U	230
	12/20/11	ORIG	60	6.2	1.8 U	1.8 U	1.8 U	1.8 U	1.7 J	1.8 U	1.8 U	1.8 U	0.63 J	1.8 U	1.8 U	1.8 U	1 J	31	1.8 U	1.8 U	1.8 U	1.1 J	0.68 J	1.1 J	1.8 U	0.54 J	1.8 U	9 U	9 U	1.8 U	9 U	100
VE-03S	06/09/10	ORIG	74000	21000	2700 U	2700 U	160 J	2000 U	28000	1900 U	380 J	2400 U	2000 U	1700 U	1400	1200	2400 U	1000 J	1400 U	2000 U	1800 U	7600 U	1600 U	71 J	2100 U	2100 U	2100 U	6000 U	8600 U	1200 U	8600 U	130000
	09/08/10	ORIG	740	63	1.2 J	3.5 U	3.5 U	1.1 J	26	3.5 U	1.4 J	2.5 J	7 U	3.5 U	1.2 J	2.1 J	0.78 J	20	1.9 J	1.5 J	3.5 U	3.9 J	0.81 J	1.9 J	3.5 U	1 J	0.37 J	17 U	0.46 J	3.5 U	17 U	870
	01/12/11	ORIG	78	8.9	1.7 U	1.7 U	1.7 U	1.7 U	4.9	1.7 U	0.31 J	0.21 J	3.4 U	0.27 J	0.55 J	0.33 J	0.66 J	12	1.7 U	1.7 U	1.7 U	1.7 J	0.99 J	0.39 J	1.7 U	1.7 U	1.7 U	8.6 U	8.6 U	1.7 U	1.8 J	110
	04/11/11	ORIG	340	20	5.4	1.8 U	1.8 U	1.8 U	5.3	1.8 U	1.8 U	0.3 J	0.87 J	1.8 U	1.2 J	14	0.77 J	34	14	1.8 U	1.8 U	8.9 U	0.74 J	0.97 J	0.52 J	1.3 J	1.2 J	2.3 J	0.3 J	1.8 U	8.9 U	450
	06/30/11	ORIG	9.5	1 J	1.7 U	1.7 U	1.7 U	1.7 U	0.55 J	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	1.7 U	1.7 U	0.67 J	16	1.3 J	1.7 U	1.7 U	1.2 J	0.49 J	0.58 J	1.7 U	1.7 U	1.7 U	8.7 U	8.7 U	1.7 U	8.7 U	31
	09/07/11	ORIG	7.8	0.73 J	0.24 J	1.8 U	1.8 U	1.8 U	0.32 J	1.8 U	1.8 U	1.8 U	1.1 J	1.8 U	1.8 U	1.8 U	0.69 J	130	28	1.8 U	1.8 U	9 U	0.48 J	0.7 J	1.8 U	1.8 U	1.8 U	9 U	0.47 J	1.8 U	9 U	170
	12/20/11	ORIG	9.6	1 J	1.8 U	1.8 U	1.8 U	1.8 U	0.56 J	1.8 U	1.8 U	1.8 U	0.91 J	1.8 U	1.8 U	1.8 U	0.85 J	12	1.8 U	1.8 U	1.8 U	1.1 J	0.69 J	1.8	1.8 U	0.76 J	0.29 J	9 U	9 U	1.8 U	9 U	30
VE-04M	06/09/10	ORIG	4000	300	3.8 J	160 U	7.2 J	120 U	930	15 J	24 J	12 J	120 U	100 U	120	180	140 U	210	86 U	120 U	110 U	450 U	3.5 J	6.8 J	130 U	130 U	130 U	360 U	510 U	75 U	510 U	5800
	09/08/10	ORIG	2300	120	12 U	12 U	3.1 J	19	27	6.1 J	5.2 J	26	24 U	2.4 J	1.6 J	2.2 J	1.5 J	59	7.5 J	12 U	12 U	59 U	5.9 J	170	33	17	4.9 J	3.8 J	3.7 J	12 U	59 U	2800
	01/12/11	ORIG	22	6.7	0.52 J	2.4 U	2.4 U	2.4 U	0.71 J	2.9	2.4 U	2.4 U	0.72 J	0.61 J	0.61 J	2.4 U	0.69 J	13	2.4 U	2.4 U	2.4 U	12 U	1.3 J	1.5 J	0.27 J	0.83 J	0.36 J	12 U	12 U	2.4 U	12 U	53
	04/11/11	ORIG	410	22	0.8 J	0.83 J	1.8 U	1.4 J	19	1 J	4.2	1.7 J	1 J	1.8 U	1.4 J	1.2 J	0.75 J	27	4.5	1.8 U	1.8 U	2.3 J	1.7 J	0.3 J	0.29 J	0.67 J	0.69 J	1.3 J	9.2 U	1.8 U	9.2 U	500
	06/30/11	ORIG	2.4	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1 J	1.9 U	1.9 U	1.9 U	0.67 J	28	3.5	1.9 U	1.9 U	1.9 J	0.55 J	0.79 J	1.9 U	0.49 J	1.9 U	9.5 U	9.5 U	1.9 U	9.5 U	39
	09/07/11	ORIG	27	1.9	1.9 U	1.9 U	1.9 U	1.9 U	0.85 J	1.9 U	1.9 U	1.9 U	1.1 J	1.9 U	1.9 U	1.9 U	0.65 J	290	53	1.9 U	1.9 U	3 J	0.66 J	1 J	1.9 U	2	0.58 J	9.4 U	0.95 J	1.9 U	9.4 U	390
	12/20/11	ORIG	42	2.5	1.9 U	1.9 U	1.9 U	1.9 U	2.1	1.9 U	0.41 J	0.41 J	3.7 U	1.9 U	1.9 U	0.48 J	1 J	26	5.9	1.9 U	1.9 U	1.1 J	1.1 J	1.6 J	0.15 J	0.73 J	0.29 J	9.4 U	9.4 U	1.9 U	9.4 U	86
VE-04S	06/09/10	ORIG	96000	7800	110 J	3100 U	200 J	2300 U	29000	470 J	590	340 J	2400 U	2000 U	3600	5600	2800 U	8700	830	930	2100 U	1400 J	100 J	380 J	73 J	2500 U	83 J	640 J	10000 U	1500 U	10000 U	160000

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VE-04S	09/08/10	ORIG	890	44	1 J	7 U	7 U	1.3 J	16	8.7	1.8 J	3.4 J	14 U	7 U	1.2 J	2.2 J	0.65 J	29 J	7 U	7 U	7 U	16 J	1.5 J	5.3 J	0.8 J	4.3 J	1.6 J	35 U	35 U	7 U	50	1100
	01/12/11	ORIG	12	0.81 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.2 J	0.56 J	1.5 J	1.8 U	0.9 J	13	1.8 U	1.8 U	1.8 U	0.6 J	1.2 J	1.6 J	0.18 J	0.62 J	0.29 J	8.9 U	8.9 U	1.8 U	60	94
	04/11/11	ORIG	380	20	2.5	1.7 U	1.7 U	1.7 U	4	7.2	0.61 J	0.33 J	0.5 J	1.7 U	0.57 J	1.1 J	0.72 J	11	1.7 U	1.7 U	1.7 U	1.1 J	0.51 J	0.23 J	1.7 U	1.7 U	1.7 U	0.54 J	8.7 U	1.7 U	110	540
	06/30/11	ORIG	0.37 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	0.65 J	21	2 U	2 U	2 U	10 U	0.42 J	0.84 J	2 U	2 U	2 U	10 U	10 U	2 U	10 U	23
	09/07/11	ORIG	220	9.6	3.2	1.9 U	0.36 J	1.9 U	2	1.5 J	1.9 U	0.36 J	3.7 U	1.9 U	1.9 U	1.5 J	1.9 U	250	43	1.9 U	1.9 U	1.9 J	0.65 J	0.6 J	1.9 U	1.9 U	1.9 U	9.4 U	0.54 J	1.9 U	9.4 U	540
	12/20/11	ORIG	32	1.3 J	0.35 J	1.8 U	1.8 U	1.8 U	1.6 J	1.8 U	1.8 U	0.31 J	3.6 U	1.8 U	0.76 J	9.3	1 J	18	1.8 U	1.8 U	1.8 U	1.1 J	0.56 J	1.4 J	1.8 U	0.65 J	1.8 U	9 U	9 U	1.8 U	190	260
VE-05M	06/09/10	ORIG	3000	64	3.4 J	100 U	77 U	77 U	46	76 U	76 U	5.2 J	79 U	66 U	3.3 J	9.4 J	94 U	99	56 U	78 U	69 U	14 J	2.1 J	6.4 J	2.1 J	83 U	2.8 J	230 U	340 U	49 U	340 U	3300
	09/08/10	ORIG	92000	1700	180 J	700 U	91 J	340 J	470 J	700 U	700 U	490 J	1400 U	260 J	700 U	700 U	700 U	8400	1600	700 U	700 U	3500 U	140 J	1200	130 J	270 J	120 J	3500 U	290 J	700 U	3500 U	110000
	09/08/10	DUP	53000	850	85 J	260 U	41 J	170 J	210 J	64 J	260 U	180 J	520 U	85 J	260 U	260 U	260 U	1000 J	150 J	260 U	260 U	1300 U	28 J	260	260 U	260 U	260 U	1300 U	39 J	260 U	1300 U	56000
	01/12/11	ORIG	330000 J	9600 J	580 J	1900 U	290 J	1500 J	15000 J	1900 U	1900 U	2200 J	3700 U	800 J	1200 J	2100 J	1900 U	3300 J	1900 U	1900 U	1900 U	1700 J	670 J	1000 J	1900 U	1900 U	250 J	9400 U	9400 U	1900 U	9400 U	370000
	01/12/11	DUP	90000 J	2700 J	150 J	550 U	550 U	480 J	4500 J	550 U	550 U	570 J	220 J	4300 J	400 J	590 J	550 U	470 J	550 U	550 U	550 U	2800 U	250 J	190 J	550 U	550 U	80 J	2800 U	2800 U	550 U	2800 U	100000
	04/11/11	ORIG	210000	14000	220 J	950 U	470 J	1100	22000	950 U	160 J	3000	1900 U	950 U	1200	1900	950 U	1200 J	950 U	950 U	950 U	4800 U	230 J	210 J	950 U	250 J	100 J	4800 U	4800 U	950 U	4800 U	260000
	04/11/11	DUP	7800	440	6.8 J	40 U	15 J	40	620	40 U	40 U	100	79 U	9.1 J	34 J	58	40 U	110 J	40 U	40 U	40 U	200 U	11 J	27 J	83	110	42	200 U	200 U	40 U	200 U	9500
	06/30/11	ORIG	10	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.81 J	1.8 U	1.8 U	1.8 U	0.66 J	35	2.6	1.8 U	1.8 U	8.9 U	0.4 J	0.9 J	0.24 J	1.1 J	0.36 J	8.9 U	8.9 U	1.8 U	8.9 U	52
	06/30/11	DUP	180	1.2 J	0.42 J	1.8 U	1.8 U	5	1.2 J	1.8 U	1.8 U	4.3	0.97 J	1.9	1.8 U	1.8 U	0.64 J	18	2.2	1.8 U	1.8 U	9.2 U	0.42 J	0.88 J	0.26 J	1.1 J	0.34 J	9.2 U	9.2 U	1.8 U	9.2 U	220
	09/07/11	ORIG	410 J	2.7 J	0.97 J	1.7 U	1.7 U	12 J	1.6 J	1.7 U	1.7 U	2.5 J	1.3 J	4.2 J	1.7 U	1.7 U	0.59 J	210	43	1.7 U	1.7 U	8.4 U	0.57 J	1.1 J	1.7 U	0.46 J	1.7 U	8.4 U	0.66 J	1.7 U	8.4 U	700
	09/07/11	DUP	890 J	4.6 J	1.5 J	4.3 U	4.3 U	22 J	3 J	4.3 U	4.3 U	4.6 J	1.8 J	7.5 J	4.3 U	4.3 U	0.61 J	230	36	4.3 U	4.3 U	4.7 J	4.3 U	0.91 J	4.3 U	4.3 U	4.3 U	22 U	22 U	4.3 U	22 U	1200
	12/20/11	ORIG	520 J	2.4 J	0.83 J	2.5 U	2.5 U	5.9	2 J	2.5 U	2.5 U	3.2	5 U	7.1	2.5 U	2.5 U	0.62 J	20	2.5 U	2.5 U	2.5 U	12 U	0.65 J	1.1 J	2.5 U	0.92 J	0.46 J	12 U	12 U	2.5 U	12 U	570
	12/20/11	DUP	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.7 U	1.9 U	1.9 U	1.9 U	0.55 J	23	1.9 U	1.9 U	1.9 U	9.4 U	0.7 J	1.2 J	1.9 U	0.74 J	0.35 J	9.4 U	9.4 U	1.9 U	9.4 U	27
VE-05S	06/09/10	ORIG	330000	18000	1100 J	11000 U	640 J	7900 U	28000	7700 U	1600 J	1700 J	8000 U	6800 U	2300	7000	9600 U	3700 J	5700 U	8000 U	7000 U	30000 U	210 J	340 J	8400 U	8400 U	8400 U	24000 U	34000 U	5000 U	34000 U	390000
	08/10/10	ORIG	44000	3800	120 J	2000 U	260 J	490	2100	1500 U	300 J	1100	1500 U	150 J	110 J	750	34 J	4700	360 J	510	1300 U	1100 J	110 J	290 J	33 J	1600 U	49 J	1300 J	240 J	940 U	6600 U	62000
	09/08/10	ORIG	37000	3300	81 J	220 U	190 J	530	1300	220 U	190 J	870	450 U	97 J	85 J	250	220 U	490 J	240	220 U	220 U	1100 U	55 J	76 J	220 U	220 U	220 U	1100 U	150 J	220 U	1100 U	45000
	10/06/10	ORIG	27000	2400	56 J	120 U	140	510	1100	21 J	140	700	240 U	59 J	72 J	280	120 U	200 J	120 U	120 U	120 U	26 J	46 J	61 J	14 J	58 J	26 J	590 U	590 U	120 U	590 U	33000
	11/03/10	ORIG	13000	1300	18 J	63 U	67	320	520	16 J	58 J	360	130 U	41 J	41 J	70	63 U	53 J	63 U	63 U	63 U	16 J	19 J	8.5 J	63 U	63 U	63 U	320 U	320 U	63 U	320 U	16000
	12/10/10	ORIG	9400	990	14 J	62 U	48 J	270	500	62 U	43 J	290	120 U	30 J	39 J	60 J	62 U	95 J	62 U	62 U	62 U	310 U	16 J	16 J	62 U	62 U	5.8 J	310 U	310 U	62 U	310 U	12000
	01/12/11	ORIG	6200	890	6.8 J	46 U	40 J	270	310	46 U	35 J	220	18 J	350	25 J	35 J	46 U	150 J	46 U	46 U	46 U	230 U	35 J	80	14 J	67	27 J	230 U	24 J	46 U	230 U	8800
	02/25/11	ORIG	430	13	0.87 J	1.9 U	0.39 J	1.9	22	1.9 U	1.9 U	3.2	0.7 J	1.9 U	6.5	22	0.7 J	7.8 J	1.9 U	1.9 U	1.9 U	9.7 U	0.6 J	0.96 J	1.9 U	1.9 U	1.9 U	0.8 J	0.49 J	1.9 U	9.7 U	510
	04/11/11	ORIG	8300	780	10 J	43 U	26 J	200	750	43 U	20 J	160	86 U	15 J	58	130	43 U	220	43 U	43 U	43 U	220 U	14 J	27 J	43 U	23 J	15 J	220 U	220 U	43 U	220 U	11000
	05/16/11	ORIG	2600	480	5.9 J	21 U	15 J	150	600	21 U	7 J	120	42 U	10 J	36	71	21 U	42 J	21 U	21 U	21 U	110 U	7.9 J	6.9 J	4.9 J	14 J	6.5 J	76 J	110 U	21 U	110 U	4300
	06/28/11	ORIG	470	100	0.73 J	0.77 J	0.49 J	32	76	4.3	2.1 U	9.3	4.2 U	2.1 U	1.4 J	2.4	0.66 J	11	2.1	2.1 U	2.1 U	11 U	0.91 J	0.84 J	2.1 U	0.78 J	2.1 U	1.5 J	11 U	2.1 U	11 U	720
	07/18/11	ORIG	1200	260	3 J	6.6 U	4.2 J	88	470	2.3 J	1.5 J	38	13 U	6.6 U	26	43	0.81 J	65	6.6 U	6.6 U	6.6 U	33 U	7.4	4.7 J	6.6 U	1.9 J	6.6 U	33 U	33 U	6.6 U	33 U	2200
	08/30/11	ORIG	1000	240	2.3 J	5.3 U	5.1 J	150	330	3.8 J	2 J	36	11 U	5.4	19	34	0.74 J	31	5.3 U	13	5.3 U	7.9 J	2 J	2 J	0.66 J	2.1 J	1.3 J	15 J	26 U	5.3 U	26 U	1900

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VE-05S	09/07/11	ORIG	1200	280	2.3 J	1.5 J	5 J	200	310	2.5 J	2 J	38	11 U	5.5	13	25	5.3 U	13 J	5.3 U	5.3 U	5.3 U	26 U	1.9 J	5.3 U	5.3 U	5.3 U	5.3 U	4.2 J	26 U	3.5 J	26 U	2100
	10/10/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	27	1.6 J	2.1 U	2.1 U	11 U	0.73 J	1.9 J	2.1 U	0.6 J	2.1 U	11 U	0.57 J	2.1 U	11 U	32
	11/07/11	ORIG	1.2 J	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	0.65 J	20	2.2 U	2.2 U	2.2 U	11 U	0.75 J	0.87 J	2.2 U	0.51 J	2.2 U	11 UJ	11 U	2.2 U	11 U	24
	12/19/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	0.77 J	2.1 U	2.1 U	2.1 U	0.62 J	16	2.6	2.1 U	2.1 U	1.2 J	2.1 U	0.79 J	2.1 U	0.62 J	2.1 U	11 U	11 U	2.1 U	11 U	23
VE-06S	06/09/10	ORIG	1600	740	53 U	5.9 J	7.1 J	39 U	25	39 U	3.1 J	11	40 U	34 U	4.3 J	5.6 J	48 U	100	29 U	40 U	35 U	8.6 J	1.3 J	3.8 J	42 U	42 U	42 U	120 U	170 U	25 U	170 U	2500
	09/08/10	ORIG	940	75	0.93 J	2.7 J	5.4 U	2.1 J	4.6 J	5.4 U	5.4 U	5.3 J	11 U	1.1 J	3.7 J	52	1 J	65	12	5.4 U	5.4 U	2 J	1.4 J	11	1 J	2 J	0.9 J	2.8 J	2.4 J	5.4 U	2.2 J	1200
	01/12/11	ORIG	1100	130	6.9 U	1.5 J	0.75 J	6.9 U	6.9 U	6.9 U	6.9 U	3.7 J	14 U	6.9 U	1.1 J	6.9 U	0.81 J	92	93	6.9 U	6.9 U	5.2 J	2.3 J	2.3 J	6.9 U	6.9 U	0.63 J	2.9 J	34 U	6.9 U	34 U	1400
	04/11/11	ORIG	580	50	5.3 U	2.4 J	5.3 U	5.3 U	0.84 J	5.3 U	5.3 U	2.3 J	11 U	1.7 J	0.93 J	1.3 J	0.75 J	490	820	5.3 U	5.3 U	6.1 J	2.2 J	12	37	47	16	51	27 U	5.3 U	27 U	2100
	05/16/11	ORIG	490	390	0.72 J	0.74 J	5	2.9 U	110	2.9 U	0.61 J	4.1	5.7 U	2.9 U	23	57	0.52 J	31	10	2.9 U	2.9 U	14 U	0.98 J	2.9 U	2.9 U	2.9 U	2.9 U	14 U	14 U	2.9 U	14 U	1100
	06/28/11	ORIG	320	240	2.1 U	2.1 U	3.2	2.1 U	100	2.1 U	2.1 U	2.7	4.2 U	2.1 U	14	31	0.6 J	23	2 J	2.1 U	2.1 U	11 U	0.76 J	0.49 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	740
	06/30/11	ORIG	1100	690	0.88 J	5.1 U	8.3	5.1 U	290	5.1 U	1.3 J	6.4	10 U	5.1 U	41	110	0.62 J	80	11	5.1 U	5.1 U	25 U	1.6 J	0.69 J	5.1 U	5.1 U	5.1 U	25 U	25 U	5.1 U	25 U	2300
	07/18/11	ORIG	1.1 J	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.1 J	2.2 U	2.2 U	2.2 U	0.53 J	40	11	2.2 U	2.2 U	11 U	2.1 J	1.4 J	2.2 U	0.58 J	2.2 U	11 U	11 U	2.2 U	11 U	60
	08/30/11	ORIG	0.53 J	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	1 J	2.1 U	2.1 U	2.1 U	0.62 J	21	2.3	2.1 U	2.1 U	11 U	0.43 J	0.97 J	0.3 J	0.55 J	0.4 J	1.9 J	11 U	2.1 U	11 U	31
	09/07/11	ORIG	0.47 J	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	5.3 U	2.7 U	2.7 U	2.7 U	0.62 J	17	2.7 U	2.7 U	2.7 U	13 U	2.7 U	0.97 J	2.7 U	2.7 U	2.7 U	13 U	13 U	2.7 U	13 U	19
	10/10/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	0.75 J	2.1 U	2.1 U	2.1 U	0.56 J	18	2.1 U	2.1 U	2.1 U	11 U	0.6 J	1.7 J	2.1 U	0.65 J	2.1 U	11 U	11 U	2.1 U	11 U	24
	11/07/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	7.9 J	2.1 U	2.1 U	2.1 U	11 U	0.69 J	1 J	2.1 U	2.1 U	2.1 U	11 UJ	11 U	2.1 U	11 U	9.6
	12/19/11	ORIG	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.68 J	1.7 U	1.7 U	1.7 U	0.6 J	5.1 J	1.7 U	1.7 U	1.7 U	8.4 U	1.7 U	0.44 J	1.7 U	1.7 U	1.7 U	8.4 U	8.4 U	1.7 U	8.4 U	6.8
VE-07S	06/09/10	ORIG	380000	63000	390 J	11000 U	1300 J	7900 U	93000	7700 U	4100	2200	8000 U	6800 U	9800	42000	9600 U	2400 J	5700 U	8000 U	7000 U	30000 U	330 J	190 J	8400 U	8400 U	8400 U	24000 U	34000 U	5000 U	34000 U	600000
	09/08/10	ORIG	18000	5400	66 J	62 J	35 J	90 U	1900	90 U	69 J	72 J	180 U	90 U	230	1100	90 U	290 J	90 U	90 U	90 U	450 U	19 J	210	75 J	400	150	450 U	21 J	90 U	36 J	28000
	01/12/11	ORIG	14000	3600	97	17 J	12 J	97 U	380	97 U	97 U	39 J	190 U	97 U	63 J	470	97 U	310 J	97 U	97 U	97 U	33 J	50 J	38 J	97 U	97 U	97 U	490 U	490 U	97 U	490 U	19000
	04/11/11	ORIG	5600	1600	22 J	5.3 J	29 U	29 U	250	29 U	8.5 J	15 J	58 U	29 U	35	200	29 U	110 J	29 U	29 U	29 U	150 U	7 J	8 J	29 U	29 U	3.1 J	150 U	150 U	29 U	150 U	7900
	06/30/11	ORIG	570	34	0.33 J	1.3 J	2.6 U	2.6 U	5	2.6 U	0.64 J	2.6 U	5.2 U	2.6 U	2.6 U	3	0.75 J	79	12	2.6 U	2.6 U	13 U	0.7 J	2.6 U	2.6 U	2.6 U	2.6 U	13 U	13 U	2.6 U	5.4 J	710
	09/07/11	ORIG	250	24	1.9	0.41 J	1.8 U	1.8 U	5.5	1.8 U	0.69 J	0.39 J	3.6 U	1.8 U	1.8 U	1.3 J	1.8 U	88	6	1.8 U	1.8 U	2.4 J	0.71 J	0.83 J	1.8 U	1.8 U	1.8 U	9 U	9 U	1.8 U	2.8 J	380
	12/20/11	ORIG	85	5.4	0.51 J	1.7 U	1.7 U	1.7 U	2.5	1.7 U	0.42 J	1.7 U	0.72 J	0.66 J	1.7 U	0.43 J	0.88 J	20	1.7 U	1.7 U	1.7 U	1.2 J	0.78 J	2.1	0.32 J	1.4 J	0.48 J	8.7 U	8.7 U	1.7 U	8.7 U	120
VE-08S	06/09/10	ORIG	290000	8800	8600	9300 U	1400 J	1500 J	15000	6700 U	300 J	2400	7000 U	5900 U	2600	41000	8400 U	4200 J	5000 U	7000 U	6100 U	1000 J	310 J	130 J	7400 U	7400 U	7400 U	21000 U	30000 U	4300 U	30000 U	380000
	08/10/10	ORIG	76000	3600	1600	4100 U	230 J	760	1800	3000 U	130 J	770	3100 U	2600 U	550 J	9700	3700 U	7900	680 J	3100 U	500 J	730 J	460 J	9300	190 J	1700	700 J	770 J	950 J	1900 U	13000 U	120000
	09/08/10	ORIG	100000	3600	2100	68 J	200 J	1000	1700	470 U	170 J	760	940 U	230 J	730	11000	470 U	2400	470 U	470 U	470 U	2400 U	100 J	300 J	470 U	470 U	470 U	2400 U	71 J	470 U	2400 U	120000
	10/06/10	ORIG	83000	2800	1700	440 U	140 J	800	1200	440 U	79 J	480	880 U	130 J	540	8500	440 U	920 J	440 U	440 U	440 U	2200 U	84 J	74 J	440 U	440 U	440 U	2200 U	2200 U	440 U	2200 U	100000
	11/03/10	ORIG	67000	2500	950	470 U	92 J	740	1000	250 J	120 J	330 J	940 U	120 J	500	7200	470 U	400 J	470 U	470 U	470 U	140 J	44 J	36 J	470 U	470 U	470 U	2300 U	2300 U	470 U	2300 U	81000
	12/10/10	ORIG	59000	1800	690	430 U	74 J	630	850	430 U	430 U	240 J	860 U	110 J	420 J	6900	430 U	620 J	430 U	430 U	430 U	2200 U	59 J	200 J	58 J	120 J	74 J	2200 U	2200 U	430 U	2200 U	72000
	01/12/11	ORIG	51000	1700	560	410 U	57 J	430	910	410 U	410 U	160 J	150 J	3300	290 J	4400	410 U	1000 J	410 U	410 U	410 U	2100 U	120 J	140 J	410 U	410 U	410 U	2100 U	220 J	410 U	2100 U	64000
	02/25/11	ORIG	42	0.84 J	2 U	2 U	2 U	2 U	0.33 J	2 U	2 U	2 U	0.69 J	2 U	0.72 J	2 U	0.61 J	7.6 J	2 U	2 U	2 U	10 U	0.98 J	2.3	0.37 J	1.4 J	0.52 J	10 U	1.2 J	2 U	10 U	60

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VE-08S	04/11/11	ORIG	3500	190	68	19 U	6.5 J	49	110	19 U	19 U	14 J	37 U	19 U	22	260	19 U	99	19 U	19 U	19 U	94 U	6 J	19	7.3 J	32	12 J	94 U	94 U	19 U	94 U	4400
	05/16/11	ORIG	1500	40	14	10 U	1.3 J	12	22	10 U	10 U	3.5 J	20 U	10 U	5.8 J	100	10 U	42 J	10 U	10 U	10 U	51 U	4.3 J	16	17	33	12	51 U	51 U	10 U	51 U	1800
	06/28/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.65 J	14	3.5	2.1 U	2.1 U	11 U	0.89 J	2.6	0.45 J	1.6 J	0.57 J	11 U	1.2 J	2.1 U	11 U	25
	07/18/11	ORIG	0.44 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.2 J	2.5 U	2.5 U	2.5 U	0.58 J	65	18	2.5 U	2.5 U	12 U	3.3	3.1	2.5 U	1.6 J	0.62 J	12 U	12 U	2.5 U	12 U	97
	08/30/11	ORIG	24000	240	510	110 U	13 J	140	100 J	110 U	110 U	39 J	210 U	110 U	110 U	590	110 U	280 J	110 U	88 J	110 U	84 J	110 U	20 J	110 U	110 U	110 U	530 U	530 U	110 U	530 U	26000
	09/07/11	ORIG	13000	120	230	54 U	54 U	72	53 J	54 U	54 U	17 J	110 U	54 U	54 U	230	54 U	120 J	54 U	54 U	54 U	19 J	54 U	140	41 J	270	110	270 U	270 U	54 U	270 U	14000
	10/10/11	ORIG	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	1.7 U	1.7 U	1.7 U	22	2.8	1.7 U	1.7 U	4.8 J	0.9 J	1.8	1.7 U	0.6 J	0.3 J	1.5 J	0.47 J	1.7 U	8.7 U	35
	11/07/11	ORIG	22000	140	92 J	110 U	110 U	93 J	72 J	110 U	110 U	25 J	220 U	110 U	110 U	180	110 U	230 J	110 U	82 J	110 U	550 U	110 U	41 J	19 J	170	76 J	550 UJ	550 U	110 U	550 U	23000
	12/19/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.58 J	21	3.4	2.1 U	2.1 U	11 U	2.1 U	0.49 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	25
VE-09S	06/09/10	ORIG	210000	12000	10000 U	10000 U	7700 U	7700 U	24000	7600 U	7600 U	1700 J	7900 U	6600 U	2900	12000	9400 U	4900 J	1200 J	7800 U	6900 U	30000 U	310 J	4500	1100 J	3400	1400 J	23000 U	34000 U	4900 U	34000 U	280000
	08/10/10	ORIG	20000	1500	520 U	520 U	74 J	45 J	3600	26 J	19 J	770	390 U	40 J	510	2100	9.1 J	680	280 U	390 U	340 U	66 J	23 J	58 J	410 U	410 U	410 U	42 J	15 J	240 U	1700 U	30000
	09/08/10	ORIG	11000	720	48 U	48 U	37 J	29 J	2100	16 J	12 J	380	96 U	19 J	330	1400	48 U	120 J	48 U	48 U	48 U	240 U	12 J	38 J	11 J	45 J	18 J	240 U	7.7 J	48 U	240 U	16000
	10/06/10	ORIG	7700	500	34 U	34 U	21 J	19 J	1600	7.4 J	7.9 J	210	67 U	11 J	260	1000	34 U	83 J	34 U	34 U	34 U	170 U	8.1 J	6.6 J	34 U	34 U	34 U	170 U	170 U	34 U	170 U	11000
	11/03/10	ORIG	5900	380	46 U	46 U	15 J	16 J	1500	46 U	7.6 J	150	92 U	46 U	270	1100	46 U	80 J	46 U	46 U	46 U	8 J	7.9 J	18 J	46 U	12 J	5.5 J	230 U	230 U	46 U	230 U	9500
	12/10/10	ORIG	9800	590	60 U	60 U	21 J	25 J	2500	60 U	8.6 J	180	120 U	60 U	470	2000	4.5 J	110 J	60 U	60 U	60 U	300 U	9.5 J	22 J	60 U	60 U	5.6 J	300 U	300 U	60 U	300 U	16000
	01/12/11	ORIG	11000	720	83 U	83 U	83 U	83 U	3200	83 U	83 U	190	31 J	650	600	2700	83 U	280 J	83 U	83 U	83 U	410 U	26 J	32 J	83 U	83 U	83 U	410 U	51 J	83 U	410 U	19000
	02/25/11	ORIG	4700	320	24 U	24 U	9.2 J	6 J	1300	24 U	5.2 J	75	49 U	24 U	510	1100	24 U	62 J	24 U	24 U	24 U	120 U	5.5 J	6.2 J	24 U	6.4 J	3.1 J	120 U	4.6 J	24 U	120 U	8100
	04/11/11	ORIG	1900	140	9.4 U	9.4 U	4 J	2.6 J	600	9.4 U	2.3 J	35	19 U	9.4 U	120	550	1.5 J	150	9.4 U	9.4 U	9.4 U	47 U	3.4 J	6 J	1.4 J	6.4 J	2.9 J	47 U	47 U	9.4 U	47 U	3500
	05/16/11	ORIG	560	44	4 U	4 U	1.5 J	4 U	180	4 U	4 U	13	8.1 U	4 U	35	160	0.76 J	33	4.1	4 U	4 U	20 U	1.6 J	5.5	1.6 J	5.8	2.3 J	20 U	20 U	4 U	20 U	1000
	06/28/11	ORIG	0.24 J	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	0.95 J	2.1 U	2.1 U	2.1 U	0.61 J	13	1.9 J	2.1 U	2.1 U	11 U	0.73 J	3	0.33 J	1.4 J	0.47 J	11 U	0.74 J	2.1 U	11 U	23
	07/18/11	ORIG	120	3.9	0.43 J	2.2 U	2.2 U	2.2 U	5.2	2.2 U	2.2 U	0.74 J	4.4 U	2.2 U	0.98 J	3.8	0.62 J	47	9.7	2.2 U	2.2 U	11 U	0.88 J	1 J	2.2 U	2.2 U	2.2 U	2 J	11 U	2.2 U	11 U	200
	08/30/11	ORIG	15	1.2 J	3.4 U	3.4 U	3.4 U	3.4 U	5.1	3.4 U	3.4 U	3.4 U	6.8 U	3.4 U	3.4 U	4.6	0.72 J	25	3.4 U	3.4 U	3.4 U	17 U	3.4 U	1.2 J	3.4 U	3.4 U	3.4 U	17 U	17 U	3.4 U	17 U	53
	09/07/11	ORIG	38	2.8	1.8 U	1.8 U	1.8 U	1.8 U	12	1.8 U	1.8 U	0.91 J	0.62 J	1.8 U	2.5	10	0.52 J	25	1.8 U	1.8 U	1.8 U	9 U	0.43 J	0.88 J	1.8 U	1.8 U	1.8 U	9 U	9 U	1.8 U	9 U	94
	10/10/11	ORIG	120	10	2.1 U	2.1 U	0.31 J	2.1 U	37	2.1 U	2.1 U	3.1	4.2 U	2.1 U	8.1	33	0.67 J	23	3.2	2.1 U	2.1 U	11 U	0.62 J	1.5 J	2.1 U	0.48 J	2.1 U	11 U	11 U	2.1 U	11 U	240
	11/07/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.84 J	2.2 U	2.2 U	2.2 U	0.76 J	12	2.2 U	2.2 U	2.2 U	11 U	0.53 J	0.5 J	2.2 U	2.2 U	2.2 U	11 UJ	11 U	2.2 U	11 U	15
	12/19/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.61 J	16	2.1 U	2.1 U	2.1 U	11 U	2.1 U	0.49 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	17
VE-10S	06/09/10	ORIG	330000	26000	7400 U	7400 U	630 J	5500 U	19000	270 J	5400 U	9300	5600 U	6900	2300	6700	6700 U	1600 J	4000 U	5600 U	4900 U	1600 J	4300 U	450 J	5900 U	5900 U	230 J	17000 U	24000 U	3500 U	24000 U	400000
	08/13/10	ORIG	49000 J	5600 J	1600 UJ	1600 UJ	270 J	1200 UJ	11000 J	240 J	1200 UJ	7400 J	1200 UJ	1200 J	740 J	1900 J	1400 UJ	560 J	860 UJ	1200 UJ	1100 UJ	100 J	58 J	42 J	1300 UJ	1300 UJ	1300 UJ	3600 UJ	5100 UJ	750 UJ	5100 UJ	78000 J
	09/08/10	ORIG	20000	2300	110 U	110 U	90 J	110 U	5000	82 J	110 U	2700	220 U	300	270	670	110 U	180 J	110 U	110 U	110 U	550 U	32 J	87 J	110 U	110 U	110 U	550 U	63 J	110 U	550 U	32000
	10/06/10	ORIG	11000	1400	56 U	56 U	49 J	56 U	3200	40 J	56 U	1300	110 U	110	160	410	56 U	120 J	56 U	56 U	56 U	5.7 J	15 J	10 J	56 U	56 U	56 U	280 U	280 U	56 U	280 U	18000
	11/03/10	ORIG	14000	1600	88 U	88 U	59 J	23 J	4300	42 J	88 U	1400	180 U	120	210	560	88 U	95 J	88 U	88 U	88 U	19 J	16 J	41 J	30 J	60 J	26 J	440 U	440 U	88 U	440 U	23000
	12/10/10	ORIG	14000	1500	84 U	84 U	55 J	84 U	4400	33 J	84 U	1200	170 U	100	210	510	84 U	130 J	84 U	84 U	84 U	420 U	130	64 J	18 J	38 J	19 J	420 U	420 U	84 U	420 U	22000

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VE-10S	01/12/11	ORIG	8700	990	55 U	55 U	31 J	55 U	3200	21 J	55 U	620	21 J	460	140	340	55 U	94 J	55 U	55 U	55 U	270 U	35 J	100	19 J	79	32 J	270 U	38 J	55 U	270 U	15000
	02/25/11	ORIG	10	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.57 J	2 U	0.45 J	2 U	0.64 J	7.4 J	2 U	2 U	2 U	10 U	0.58 J	0.74 J	2 U	2 U	2 U	10 U	0.49 J	2 U	10 U	21
	04/11/11	ORIG	54	2.9	2.2 U	2.2 U	2.2 U	2.2 U	0.55 J	2.2 U	2.2 U	2.2 U	0.99 J	2.2 U	0.31 J	2.2 U	0.62 J	210	8.8	2.2 U	2.2 U	11 U	0.78 J	1.1 J	0.19 J	0.82 J	0.38 J	1.4 J	0.43 J	2.2 U	11 U	290
	05/16/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.47 J	18	3.5	2.1 U	2.1 U	0.7 J	0.42 J	0.48 J	2.1 U	0.64 J	2.1 U	11 U	11 U	2.1 U	11 U	24
	06/28/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.1 U	2.1 U	2.1 U	2.1 U	0.68 J	24	6.9	2.1 U	2.1 U	10 U	0.41 J	0.64 J	2.1 U	2.1 U	2.1 U	1.5 J	10 U	2.1 U	10 U	34
	07/18/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	0.56 J	52	14	2.2 U	2.2 U	11 U	1.3 J	2.5	2.2 U	0.99 J	2.2 U	1.7 J	1.6 J	2.2 U	11 U	78
	08/30/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.61 J	12	2.1 U	2.1 U	2.1 U	11 U	2.1 U	1.1 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	14
	09/07/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.1 J	2.2 U	2.2 U	2.2 U	0.63 J	45	2.9	2.2 U	2.2 U	11 U	0.59 J	1.4 J	2.2 U	0.59 J	2.2 U	1.8 J	11 U	2.2 U	11 U	54
	10/10/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	1.3 J	2.1 U	2.1 U	2.1 U	2.1 U	42	2.2	2.1 U	2.1 U	11 U	0.85 J	2.6	2.1 U	0.92 J	2.1 U	11 U	11 U	2.1 U	11 U	50
	11/07/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	13	2.2 U	2.2 U	2.2 U	11 U	0.67 J	0.47 J	2.2 U	2.2 U	2.2 U	11 UJ	11 U	2.2 U	11 U	14
	12/19/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	1.4 J	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.64 J	9.1 J	2.1 U	2.1 U	2.1 U	11 U	2.1 U	0.52 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	12
VE-11S	06/09/10	ORIG	190000	16000	6200 U	6200 U	640 J	4600 U	16000	4500 U	4500 U	3500	4700 U	4000 U	2700	12000	5700 U	2100 J	3400 U	4700 U	4100 U	18000 U	170 J	4300 U	5000 U	5000 U	5000 U	14000 U	20000 U	2900 U	21000 U	240000
	08/10/10	ORIG	51000	3300	87 J	2000 U	330 J	1500 U	3800	240 J	1500 U	4100	1500 U	210 J	890	11000	30 J	5300	510	500	48 J	380 J	180 J	520	91 J	640	340 J	450 J	370 J	940 U	6500 U	84000
	09/08/10	ORIG	51000	2500	90 J	27 J	250 J	110 J	3100	170 J	270 U	3700	540 U	190 J	840	9300	270 U	980 J	270 U	270 U	270 U	98 J	73 J	140 J	54 J	73 J	27 J	1300 U	68 J	270 U	1300 U	73000
	10/06/10	ORIG	32000	1400	53 J	20 J	140 J	89 J	2100	84 J	160 U	1900	320 U	120 J	530	5700	160 U	360 J	160 U	160 U	160 U	260 J	44 J	53 J	160 U	45 J	18 J	800 U	800 U	160 U	800 U	45000
	11/03/10	ORIG	28000	1100	61 J	190 U	98 J	120 J	1900	51 J	190 U	1300	390 U	83 J	480	4800	190 U	320 J	190 U	190 U	190 U	970 U	29 J	32 J	190 U	190 U	190 U	970 U	970 U	190 U	970 U	38000
	12/10/10	ORIG	34000	1000	110 J	250 U	88 J	130 J	2200	250 U	250 U	1100	510 U	250 U	540	4900	250 U	270 J	250 U	250 U	250 U	100 J	27 J	34 J	250 U	250 U	250 U	1300 U	1300 U	250 U	1300 U	44000
	01/12/11	ORIG	32000	1800	150 J	300 U	300 U	84 J	2000	300 U	300 U	740	120 J	2500	470	3600	300 U	670 J	300 U	300 U	300 U	240 J	110 J	83 J	300 U	300 U	300 U	1500 U	100 J	300 U	1500 U	45000
	02/25/11	ORIG	12000	210	32 J	65 U	65 U	65 U	480	65 U	65 U	91	130 U	65 U	210	720	65 U	130 J	65 U	65 U	65 U	320 U	9.1 J	27 J	65 U	17 J	8.8 J	320 U	9.7 J	65 U	320 U	14000
	04/11/11	ORIG	45000	1300	110 J	250 U	59 J	250 U	3900	250 U	250 U	500	510 U	250 U	710	4700	250 U	600 J	250 U	250 U	250 U	1300 U	57 J	93 J	47 J	160 J	66 J	1300 U	68 J	250 U	1300 U	57000
	05/16/11	ORIG	6800	300	9.3 J	42 U	12 J	25 J	830	42 U	42 U	110	84 U	42 U	130	610	42 U	130 J	42 U	42 U	42 U	210 U	8.8 J	17 J	6 J	28 J	13 J	210 U	210 U	42 U	210 U	9000
	06/28/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.1 U	2.1 U	2.1 U	2.1 U	0.65 J	14	2.1 U	2.1 U	2.1 U	10 U	0.54 J	1.5 J	0.23 J	0.93 J	0.34 J	10 U	10 U	2.1 U	10 U	18
	07/18/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	0.55 J	40	12	2.2 U	2.2 U	11 U	0.7 J	1 J	2.2 U	2.2 U	2.2 U	1.9 J	11 U	2.2 U	11 U	58
	08/30/11	ORIG	1 J	2 U	2 U	2 U	2 U	2 U	0.28 J	2 U	2 U	2 U	0.95 J	2 U	2 U	2 U	0.67 J	30	3.1	2 U	2 U	3.1 J	0.51 J	1 J	2 U	2 U	2 U	1.5 J	10 U	2 U	10 U	42
	09/07/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	30	2.1 J	2.2 U	2.2 U	11 U	0.51 J	1.1 J	2.2 U	2.2 U	2.2 U	11 U	11 U	2.2 U	11 U	34
	10/10/11	ORIG	2800	240	2 J	15 U	8.1 J	39	460	15 U	15 U	86	29 U	10 J	76	270	15 U	65 J	15 U	15 U	15 U	74 U	2.9 J	3.3 J	2.3 J	6 J	2.7 J	74 U	74 U	15 U	74 U	4100
	11/07/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	0.69 J	6.1 J	2.2 U	2.2 U	2.2 U	11 U	0.44 J	0.44 J	2.2 U	2.2 U	2.2 U	11 UJ	11 U	2.2 U	11 U	7.7
	12/19/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.62 J	14	3.1	2.1 U	2.1 U	11 U	2.1 U	0.54 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	18
VE-12S	06/09/10	ORIG	160000	9100	5200 U	5200 U	3900 U	3900 U	59000	3800 U	3800 U	280 J	3900 U	3300 U	5900	18000	4700 U	2700 J	2800 U	460 J	3400 U	1400 J	3000 U	210 J	250 J	500 J	260 J	12000 U	17000 U	2400 U	17000 U	260000
	08/13/10	ORIG	19000 J	1700 J	530 UJ	530 UJ	46 J	390 UJ	5700 J	23 J	390 UJ	320 J	400 UJ	340 UJ	330 J	640 J	480 UJ	130 J	290 UJ	400 UJ	350 UJ	38 J	73 J	92 J	420 UJ	42 J	18 J	27 J	1700 UJ	250 UJ	1700 UJ	28000 J
	09/08/10	ORIG	15000	1200	88 U	88 U	40 J	88 U	5000	73 J	88 U	230	180 U	88 U	400	1100	88 U	240 J	88 U	88 U	88 U	440 U	940	4300	270	700	110	440 U	6200	88 U	440 U	36000
	10/06/10	ORIG	14000	1100	67 U	67 U	25 J	67 U	4400	20 J	67 U	170	130 U	10 J	390	1200	67 U	140 J	67 U	67 U	67 U	330 U	15 J	22 J	8.5 J	38 J	38 J	330 U	330 U	67 U	330 U	22000

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VE-12S	11/03/10	ORIG	9900	700	9.2 J	75 U	75 U	75 U	3300	75 U	75 U	120	150 U	75 U	310	1000	6.6 J	200 J	75 U	75 U	75 U	43 J	12 J	23 J	75 U	75 U	75 U	370 U	370 U	75 U	370 U	16000
	12/10/10	ORIG	10000	630	9 J	69 U	15 J	69 U	2900	69 U	69 U	120	140 U	69 U	250	810	12 J	260 J	69 U	69 U	69 U	340 U	20 J	33 J	69 U	69 U	69 U	23 J	340 U	69 U	340 U	15000
	01/12/11	ORIG	6000	390	55 U	55 U	7.8 J	55 U	1600	55 U	55 U	80	29 J	240	180	630	14 J	990	55 U	55 U	55 U	270 U	36 J	86	55 U	22 J	8.8 J	270 U	1000	55 U	270 U	11000
	02/25/11	ORIG	22	0.31 J	2 U	2 U	2 U	2 U	0.63 J	2 U	2 U	2 U	0.55 J	2 U	0.78 J	0.86 J	0.61 J	15	2 U	2 U	2 U	10 U	0.51 J	0.73 J	2 U	2 U	2 U	0.85 J	0.42 J	2 U	10 U	43
	04/11/11	ORIG	2500	180	13 U	13 U	5.6 J	13 U	820	13 U	13 U	49	26 U	13 U	97	450	2 J	66	9.5 J	13 U	13 U	65 U	100	500	66	250	120	3.5 J	360	13 U	65 U	5600
	05/16/11	ORIG	840	70	6.3 U	6.3 U	2.5 J	6.3 U	320	6.3 U	6.3 U	20	13 U	6.3 U	63	320	1.2 J	58	8.3	6.3 U	6.3 U	32 U	5.1 J	45	26	67	33	32 U	3.2 J	6.3 U	32 U	1900
	06/28/11	ORIG	0.7 J	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.1 U	2.1 U	2.1 U	2.1 U	0.7 J	20	2.1	2.1 U	2.1 U	10 U	0.48 J	0.66 J	2.1 U	2.1 U	2.1 U	10 U	10 U	2.1 U	10 U	25
	07/18/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.3 J	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	0.55 J	43	13	2.2 U	2.2 U	11 U	0.91 J	2.2	0.36 J	1.2 J	0.56 J	11 U	0.99 J	2.2 U	11 U	64
	08/30/11	ORIG	0.97 J	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	0.76 J	2.1 U	2.1 U	2.1 U	0.64 J	40	7.6	2.1 U	2.1 U	11 U	2.1 U	1.1 J	2.1 U	2.1 U	2.1 U	2 J	11 U	2.1 U	11 U	53
	09/07/11	ORIG	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.7 U	1.7 U	1.7 U	0.59 J	17	1.7 U	1.7 U	1.7 U	8.4 U	0.48 J	0.97 J	1.7 U	1.7 U	1.7 U	1.4 J	8.4 U	1.7 U	8.4 U	20
	10/10/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.76 J	14	2.1 U	2.1 U	2.1 U	11 U	0.57 J	1.5 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	17
	11/07/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.3 U	2.2 U	2.2 U	2.2 U	0.76 J	11	2.2 U	2.2 U	2.2 U	11 U	2.2 U	0.4 J	2.2 U	2.2 U	2.2 U	11 UJ	11 U	2.2 U	11 U	12
	12/19/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.64 J	15	2.1 U	2.1 U	2.1 U	11 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	16
VE-14S	02/02/11	ORIG	62	0.93 J	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	0.61 J	4.6 U	2.3 U	2.2 J	5.5	0.76 J	49	82	2.3 U	2.3 U	12	0.39 J	0.2 J	2.3 U	2.3 U	2.3 U	2.1 J	11 U	2.3 U	11 U	220
	04/11/11	ORIG	22	0.68 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.54 J	3.4 U	1.7 U	1.3 J	3.3	0.66 J	24	22	1.7 U	1.7 U	1.6 J	0.23 J	0.15 J	1.7 U	1.7 U	1.7 U	0.55 J	8.6 U	1.7 U	8.6 U	77
	05/16/11	ORIG	20	11	2.1 U	2.1 U	2.1 U	2.1 U	2 J	2.1 U	2.1 U	0.45 J	4.2 U	2.1 U	2.4	2.1	0.56 J	42	12	2.1 U	2.1 U	11 U	2.1 U	0.34 J	0.21 J	0.88 J	0.29 J	11 U	11 U	2.1 U	11 U	94
	06/28/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.3 U	2.2 U	2.2 U	2.2 U	0.72 J	12	2.2 U	2.2 U	2.2 U	11 U	0.5 J	0.7 J	2.2 U	2.2 U	2.2 U	11 U	11 U	2.2 U	11 U	14
	07/18/11	ORIG	6.7	5.7	2.2 U	2.2 U	2.2 U	2.2 U	0.52 J	2.2 U	2.2 U	2.2 U	4.3 U	2.2 U	1 J	1.2 J	0.67 J	68	17	2.2 U	2.2 U	11 U	1.4 J	0.7 J	2.2 U	0.84 J	0.3 J	11 U	11 U	2.2 U	11 U	110
	08/30/11	ORIG	5.1	4	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.76 J	2.2 U	1 J	1.3 J	0.64 J	40	2.1 J	2.2 U	2.2 U	11 U	0.5 J	1.1 J	0.42 J	0.73 J	0.43 J	11 U	11 U	2.2 U	11 U	59
	09/07/11	ORIG	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	15	2.2 U	2.2 U	2.2 U	11 U	2.2 U	0.78 J	2.2 U	2.2 U	2.2 U	11 U	11 U	2.2 U	11 U	16
	10/10/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	0.96 J	2.1 U	2.1 U	2.1 U	2.1 U	21	4.3	2.1 U	2.1 U	11 U	0.59 J	1.8 J	2.1 U	0.72 J	2.1 U	11 U	11 U	2.1 U	11 U	29
	11/07/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	23	2.1 U	2.1 U	2.1 U	11 U	0.88 J	1 J	2.1 U	0.51 J	2.1 U	11 UJ	0.57 J	2.1 U	11 U	26
	12/19/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.62 J	17	3.9	2.1 U	2.1 U	11 U	2.1 U	0.59 J	2.1 U	0.66 J	2.1 U	11 U	11 U	2.1 U	11 U	23
VE-15S	01/27/11	ORIG	410	120	2.5 U	2.5 U	2.5 U	2.5 U	9.1	2.5 U	2.5 U	1.9 J	4.9 U	0.42 J	4.7	7.4	0.89 J	5.8 J	2.5 U	2.5 U	0.33 J	12 U	1.2 J	0.2 J	2.5 U	2.5 U	2.5 U	12 U	0.62 J	2.5 U	12 U	560
	04/12/11	ORIG	57	7.6	2 U	2 U	2 U	2 U	0.45 J	2 U	2 U	2 U	0.78 J	2 U	1.5 J	1.8 J	0.68 J	36	62	2 U	2 U	2.5 J	0.68 J	0.36 J	2 U	2 U	0.25 J	0.95 J	10 U	0.66 J	10 U	170
	05/16/11	ORIG	230	200	2 U	2 U	2 U	1.2 J	140	2 U	2 U	1.7 J	4 U	2 U	18	28	0.54 J	21	4.1	2 U	2 U	10 U	0.62 J	0.32 J	2 U	0.77 J	0.28 J	10 U	10 U	2 U	10 U	650
	06/28/11	ORIG	110	98	2.1 U	2.1 U	2.1 U	2.1 U	65	2.1 U	2.1 U	0.97 J	4.2 U	2.1 U	6.4	9.8	0.74 J	19	3.6	2.1 U	2.1 U	11 U	0.57 J	0.41 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	310
	07/18/11	ORIG	140	110	2.2 U	2.2 U	2.2 U	1.5 J	87	2.2 U	2.2 U	1.4 J	4.3 U	2.2 U	8.8	13	0.67 J	74	16	2.2 U	2.2 U	11 U	2.4	1.5 J	2.2 U	0.84 J	0.31 J	3.4 J	11 U	2.2 U	11 U	460
	08/30/11	ORIG	200	180	2.1 U	2.1 U	2.1 U	1.9 J	120	2.1 U	2.1 U	1.3 J	4.2 U	2.1 U	14	19	0.75 J	18	2.1 U	2.1 U	2.1 U	11 U	0.54 J	0.44 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	560
	09/07/11	ORIG	32	28	2.2 U	2.2 U	2.2 U	2.2 U	15	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	1.9 J	2.3	0.6 J	42	3.1	2.2 U	2.2 U	11 U	2.2 U	0.87 J	2.2 U	2.2 U	2.2 U	11 U	11 U	2.2 U	11 U	130
	10/10/11	ORIG	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	0.86 J	2.1 U	2.1 U	2.1 U	2.1 U	17	2.1 U	2.1 U	2.1 U	11 U	0.51 J	1.4 J	2.1 U	0.5 J	2.1 U	11 U	11 U	2.1 U	11 U	20
	11/07/11	ORIG	140	120	2.1 U	2.1 U	2.1 U	1 J	51	2.1 U	2.1 U	0.87 J	4.2 U	2.1 U	6.9	9.6	2.1 U	11	2.1 U	2.1 U	2.1 U	11 U	0.68 J	0.52 J	2.1 U	0.54 J	2.1 U	11 UJ	11 U	2.1 U	11 U	340

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VE-15S	12/19/11	ORIG	57	56	2.1 U	2.1 U	2.1 U	2.1 U	24	2.1 U	2.1 U	0.48 J	4.2 U	2.1 U	3.6	5.1	0.69 J	20	4.9	2.1 U	2.1 U	11 U	2.1 U	0.38 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	11 U	170
VMP-01	06/09/10	ORIG	500000	28000	950 J	26000 U	1200 J	19000 U	65000	19000 U	2200 J	3700 J	20000 U	17000 U	6700	9800	24000 U	38000	14000 U	20000 U	17000 U	74000 U	820 J	1300 J	21000 U	21000 U	21000 U	59000 U	84000 U	12000 U	84000 U	660000
	09/08/10	ORIG	8400	1900	38 U	38 U	18 J	32 J	280	5.8 J	13 J	69	76 U	38 U	13 J	16 J	38 U	71 J	38 U	38 U	38 U	28 J	9.5 J	9.1 J	3.6 J	12 J	6.6 J	13 J	190 U	38 U	190 U	11000
	01/12/11	ORIG	130	11	0.36 J	1.7 U	1.7 U	0.62 J	7.5	1.6 J	0.52 J	1.7 U	0.84 J	0.26 J	1.5 J	2.8	0.71 J	16	1.7 U	1.7 U	1.7 U	1.1 J	0.97 J	1.6 J	0.31 J	1.1 J	0.54 J	8.7 U	8.7 U	1.7 U	8.7 U	180
	04/11/11	ORIG	190	41	2 U	2 U	2 U	2 U	30	2 U	0.59 J	0.77 J	1.2 J	2 U	4.8	7.6	0.9 J	55	4.8	2 U	2 U	1.5 J	0.98 J	2.6	0.67 J	2.7	0.97 J	0.71 J	10 U	2 U	10 U	350
	06/30/11	ORIG	2	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.83 J	1.7 U	1.7 U	1.7 U	0.62 J	18	1.7 U	1.7 U	1.7 U	8.7 U	0.4 J	0.85 J	1.7 U	0.57 J	1.7 U	8.7 U	8.7 U	1.7 U	8.7 U	23
	09/07/11	ORIG	140	4.8	2 U	2 U	2 U	2 U	4	0.47 J	2 U	0.43 J	1.1 J	2 U	2 U	2 U	0.65 J	200	54	2 U	2 U	2.3 J	0.74 J	1 J	2 U	2 U	2 U	10 U	1.6 J	2 U	10 U	420
	12/20/11	ORIG	7.2	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.2 J	1.7 U	1.7 U	0.27 J	1.8 J	1.4 J	0.91 J	1.7 U	1.9	30	2.2	1.7 U	1.7 U	0.56 J	2.5	12	0.8 J	3	0.96 J	9.2	1.7 J	1.7 U	8.7 U	77
VMP-02	06/09/10	ORIG	390000	19000	820 J	3900 U	720 J	3900 U	59000	3900 U	2000 J	1800 J	7800 U	3900 U	6400	11000	3900 U	6000 J	3900 U	3900 U	3900 U	3400 J	400 J	330 J	3900 U	3900 U	3900 U	19000 U	19000 U	3900 U	19000 U	500000
	06/09/10	DUP	330000	22000	710 J	14000 U	10000 U	10000 U	48000	1800 J	1400 J	1700 J	600 J	9000 U	5300	8600	13000 U	21000 J	7600 U	1900 J	9300 U	3500 J	790 J	3200	900 J	4900	3600	32000 U	46000 U	6600 U	46000 U	460000
	09/08/10	ORIG	3400	230	18 U	18 U	8.2 J	120	22	18	4.3 J	88	37 U	7.8 J	18 U	3.7 J	18 U	48 J	18 U	18 U	18 U	7.8 J	14 J	27	2.5 J	9.6 J	3.4 J	9 J	4.9 J	18 U	92 U	4000
	01/12/11	ORIG	420	20	1.4 J	3.5 U	3.5 U	17	5.9	3.5 U	1.3 J	1.4 J	7 U	0.68 J	1.4 J	13	0.61 J	14 J	3.5 U	3.5 U	3.5 U	3 J	1.6 J	2.1 J	3.5 U	3.5 U	0.45 J	1.2 J	17 U	3.5 U	17 U	510
	04/11/11	ORIG	21	4.3	0.74 J	1.9 U	1.9 U	1.9 U	1.5 J	1.9 U	1.9 U	1.9 U	1.2 J	0.72 J	0.61 J	1.2 J	0.87 J	41	7.6	1.9 U	1.9 U	15	0.92 J	12	4	16	6	3.2 J	0.32 J	1.9 U	9.4 U	140
	06/30/11	ORIG	8.1	0.37 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.94 J	1.8 U	1.8 U	1.8 U	0.61 J	38	19	1.8 U	1.8 U	1.2 J	0.44 J	0.99 J	0.24 J	0.97 J	0.34 J	1.4 J	8.9 U	1.8 U	8.9 U	73
	09/07/11	ORIG	1.8	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.77 J	1.8 U	1.8 U	1.8 U	0.63 J	150	24	1.8 U	1.8 U	9 U	0.47 J	0.91 J	1.8 U	1.8 U	1.8 U	1.9 J	0.49 J	1.8 U	9 U	180
	12/20/11	ORIG	1.2 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.5 J	0.57 J	1.8 U	1.8 U	0.93 J	27	4	1.8 U	1.8 U	0.62 J	1.1 J	3	0.31 J	1.2 J	0.48 J	9.2 U	9.2 U	1.8 U	9.2 U	42
VMP-03	06/09/10	ORIG	2100	140	71 U	71 U	53 U	53 U	140	52 U	11 J	3.9 J	54 U	46 U	7 J	6.5 J	65 U	160 U	39 U	54 U	47 U	200 U	1.4 J	1.3 J	57 U	57 U	57 U	160 U	230 U	33 U	230 U	2400
	09/08/10	ORIG	270	7.7	0.75 J	1.8 U	1.8 U	1.8 U	2.1	0.28 J	1.8 U	1.8 U	0.7 J	1.8 U	0.68 J	2.1	0.71 J	6.6 J	1.8 U	1.8 U	1.8 U	1.2 J	0.39 J	0.4 J	1.8 U	1.8 U	1.8 U	9.2 U	9.2 U	1.8 U	9.2 U	290
	01/12/11	ORIG	58	4.8	2.5 U	2.5 U	2.5 U	2.5 U	1.9 J	1.1 J	2.5 U	0.57 J	5.1 U	0.68 J	0.45 J	2.5 U	0.79 J	18	2.5 U	2.5 U	2.5 U	13 U	1.1 J	0.65 J	2.5 U	2.5 U	2.5 U	13 U	13 U	2.5 U	2.9 J	91
	04/11/11	ORIG	7.8	2.7	0.6 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.85 J	1.8 U	0.39 J	1.8 U	0.97 J	53	4.1	1.8 U	1.8 U	2.4 J	0.93 J	1.1 J	0.52 J	1.4 J	1.3 J	2.3 J	0.38 J	1.8 U	9 U	81
	06/30/11	ORIG	7.6	0.93 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.7 U	1.9 U	1.9 U	0.67 J	0.68 J	73	26	1.9 U	1.9 U	1.3 J	0.64 J	0.48 J	1.9 U	1.9 U	1.9 U	9.4 U	9.4 U	1.9 U	9.4 U	110
	09/07/11	ORIG	5.5	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.3 J	1.9 U	1.9 U	1.9 U	0.66 J	150	27	1.9 U	1.9 U	6.1 J	1.4 J	1.1 J	0.25 J	1.3 J	0.45 J	1.9 J	1.2 J	1.9 U	9.4 U	200
	12/20/11	ORIG	60	1.3 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.5 J	1.9 U	1.9 U	0.45 J	1.1 J	17	1.9 U	1.9 U	1.9 U	1.2 J	1 J	2.3	1.9 U	0.89 J	0.38 J	9.4 U	9.4 U	1.9 U	9.4 U	87
VMP-04	06/09/10	ORIG	11000	10000	330 U	14 J	140	250 U	450	240 U	55 J	120	250 U	210 U	170	190	300 U	190 J	180 U	250 U	220 U	940 U	7.2 J	14 J	16 J	29 J	13 J	750 U	1100 U	160 U	1100 U	22000
	09/08/10	ORIG	3400	2500	18 U	9.9 J	60	18 U	39	4.5 J	5.6 J	60	36 U	10 J	15 J	16 J	18 U	69 J	18 U	18 U	18 U	90 U	3.7 J	11 J	18 U	18 U	18 U	90 U	3.2 J	18 U	90 U	6200
	01/12/11	ORIG	1800	670	10 U	9 J	16	10 U	8.1 J	2.7 J	10 U	26	21 U	11	8.3 J	11	10 U	39 J	10 U	10 U	10 U	16 J	6.5 J	15	1.5 J	5.1 J	3.1 J	51 U	51 U	10 U	51 U	2600
	04/11/11	ORIG	860	240	0.66 J	6.4	5.5	5.3 U	6	5.3 U	5.3 U	14	11 U	6.5	5.2 J	7.9	0.76 J	51	5.3 U	5.3 U	5.3 U	6.6 J	2.5 J	15	37	47	16	5.7 J	0.8 J	5.3 U	27 U	1300
	06/30/11	ORIG	6.8	3.3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.67 J	1.8 U	1.8 U	1.8 U	0.62 J	68	20	1.8 U	1.8 U	8.9 U	1.7 J	1.3 J	0.22 J	0.75 J	0.28 J	1.7 J	0.67 J	1.8 U	8.9 U	110
	09/07/11	ORIG	1.3 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1 J	0.73 J	1.9 U	1.9 U	0.65 J	200	10	1.9 U	1.9 U	9.4 U	1.1 J	2.4	0.43 J	1.2 J	0.45 J	2.2 J	1.1 J	1.9 U	9.4 U	220
	12/20/11	ORIG	1700	1600	9.4 U	9.4 U	19	9.4 U	1300	9.4 U	9.4 U	6.6 J	19 U	9.4 U	170	380	9.4 U	42 J	9.4 U	9.4 U	9.4 U	47 U	2 J	14	1.3 J	7 J	3.5 J	47 U	47 U	9.4 U	47 U	5200
VMP-05	06/09/10	ORIG	140000	20000	300 J	4200 U	630 J	3100 U	27000	3100 U	1200	1100	3200 U	2700 U	3200	17000	3800 U	4100	2300 U	3200 U	2800 U	760 J	190 J	180 J	3400 U	3400 U	3400 U	9600 U	14000 U	2000 U	14000 U	220000

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VMP-05	09/08/10	ORIG	4300	1100	7.3 J	58	21	7.6 J	320	19 U	14 J	44	38 U	19 U	45	140	19 U	27 J	19 U	19 U	19 U	95 U	7 J	4.7 J	19 U	19 U	19 U	95 U	95 U	19 U	95 U	6100
	01/12/11	ORIG	11000	1000	870	25 J	16 J	54 U	610	54 U	54 U	26 J	110 U	54 U	420	7200	54 U	130 J	54 U	54 U	54 U	56 J	30 J	86	6.3 J	15 J	7.6 J	270 U	270 U	54 U	270 U	21000
	04/11/11	ORIG	970	220	3.7 J	18	5.4 U	5.4 U	64	5.4 U	5.2 J	3.2 J	11 U	5.4 U	8.7	33	1.1 J	70	6.9	5.4 U	5.4 U	3.5 J	43	210	31	170	51	4.4 J	23 J	5.4 U	27 U	1900
	06/30/11	ORIG	68	5.9	0.6 J	1 J	1.8 U	1.8 U	2.8	1.8 U	1.8 U	1.8 U	3.5 U	1.5 J	1.8 U	1.9	0.65 J	86	12	1.8 U	1.8 U	8.9 U	0.61 J	0.7 J	1.8 U	0.5 J	1.8 U	8.9 U	8.9 U	1.8 U	8.9 U	180
	09/07/11	ORIG	70	8.2	1.8 U	1.2 J	1.8 U	1.8 U	3.5	1.8 U	1 J	0.27 J	3.6 U	0.95 J	1.8 U	0.9 J	0.65 J	86	4.6	1.8 U	1.8 U	1.3 J	0.97 J	0.96 J	0.18 J	1.8 U	1.8 U	9 U	0.9 J	1.8 U	9 U	180
	12/20/11	ORIG	37	3	1.7 U	1.7 U	1.7 U	1.7 U	1.2 J	1.7 U	0.34 J	1.7 U	3.5 U	1.7 U	1.7 U	1.7 U	0.38 J	6.9 J	1.7 U	1.7 U	1.7 U	8.7 U	0.35 J	0.4 J	1.7 U	1.7 U	1.7 U	8.7 U	8.7 U	1.7 U	8.7 U	50
VMP-06	06/09/10	ORIG	290000	6700	220 J	8000 U	750 J	1100 J	12000	5800 U	5800 U	2500	6100 U	5100 U	2400	120000	7300 U	18000	1600	6000 U	5300 U	23000 U	540 J	2200	460 J	750 J	440 J	18000 U	26000 U	3800 U	26000 U	460000
	09/08/10	ORIG	130000	12000	1400	450 J	1600	1600	9900	1300 U	300 J	5900	2600 U	200 J	17000	250000	1300 U	5500 J	1300 U	1300 U	1300 U	5100 J	400 J	450 J	1300 U	1300 U	1300 U	450 J	6600 U	1300 U	6600 U	440000
	09/08/10	DUP	280000	25000	2900	1100 J	3300	3500	20000	2100 U	570 J	12000	4200 U	530 J	36000	510000	2100 U	20000	3900	2100 U	2100 U	11000 U	820 J	1600 J	570 J	1200 J	470 J	11000 U	900 J	2100 U	11000 U	920000
	01/12/11	ORIG	190000	21000	23000	940 U	450 J	300 J	19000	940 U	940 U	750 J	1900 U	330 J	12000	210000 J	940 U	1200 J	940 U	940 U	940 U	590 J	440 J	550 J	940 U	940 U	940 U	4700 U	4700 U	940 U	4700 U	480000
	01/12/11	DUP	150000	18000	19000	750 U	310 J	750 U	15000	750 U	750 U	580 J	210 J	5600 J	9900	160000 J	750 U	790 J	750 U	750 U	750 U	3700 U	300 J	200 J	750 U	750 U	750 U	3700 U	3700 U	750 U	3700 U	380000
	04/11/11	ORIG	83000	6700	2900	450 U	450 U	450 U	4900	450 U	450 U	110 J	900 U	450 U	910	10000	450 U	1500 J	770	450 U	450 U	2300 U	150 J	2300	590	3000	1100	2300 U	110 J	450 U	2300 U	120000
	04/11/11	DUP	360000	36000	16000	2100 U	2100 U	2100 U	30000	2100 U	2100 U	740 J	4100 U	2100 U	5100	56000	2100 U	3800 J	1500 J	2100 U	2100 U	10000 U	500 J	450 J	2100 U	2100 U	2100 U	10000 U	10000 U	2100 U	10000 U	510000
	06/30/11	ORIG	7.7	0.39 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1 J	0.54 J	1.7 U	3.8	0.62 J	100	11	1.7 U	1.7 U	1 J	0.5 J	1.2 J	0.2 J	0.82 J	0.32 J	8.7 U	8.7 U	1.7 U	8.7 U	130
	06/30/11	DUP	8.8	0.57 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1 J	1.3 J	1.7 U	1.9	0.6 J	140	14	1.7 U	1.7 U	8.7 U	0.47 J	4.2	0.58 J	2.4	0.79 J	8.7 U	8.7 U	1.7 U	8.7 U	180
	09/07/11	ORIG	330 J	33 J	0.28 J	0.81 J	0.68 J	6.7	14 J	1.8 U	1.6 J	5.1	1.7 J	2.1	1.8 U	0.44 J	0.88 J	180 J	19 J	1.8 U	1.8 U	8.4 J	2.3	3.9	0.39 J	1.2 J	0.51 J	3 J	1.8 J	1.8 U	9 U	620
	09/07/11	DUP	100 J	5.4 J	0.34 J	1.8 U	1.8 U	1.8 U	2.2 J	1.8 U	1.8 U	1.8 U	1 J	0.7 J	1.8 U	3.4 J	0.67 J	96 J	6.2 J	1.8 U	1.8 U	0.83 J	0.96 J	2.5	0.28 J	0.91 J	0.43 J	3 J	0.74 J	1.8 U	9 U	230
	12/20/11	ORIG	1200 J	34 J	3.6 J	5.8 U	2.2 J	1.7 J	12 J	5.8 U	5.8 U	7.8	3.4 J	2.4 J	5.8 U	18 J	2 J	94	5.8 U	5.8 U	5.8 U	5.3 J	3.9 J	32 J	1.8 J	5.9	2.7 J	29 U	29 U	5.8 U	29 U	1400
	12/20/11	DUP	6600 J	420 J	110 J	30 U	10 J	30 U	350 J	30 U	30 U	12 J	60 U	30 U	52	1100 J	30 U	70 J	30 U	30 U	30 U	150 U	30 U	17 J	30 U	7.5 J	30 U	150 U	150 U	30 U	150 U	8700
VMP-11	07/07/10	ORIG	4900	410	330 U	330 U	250 U	250 U	43 J	13 J	240 U	80	250 U	210 U	340 U	460 U	300 U	320	180 U	250 U	220 U	940 U	16 J	15 J	6.3 J	18 J	260 U	750 U	52 J	160 U	1100 U	5900
	09/08/10	ORIG	1300	59	8.7 U	8.7 U	8.7 U	8.7 U	17	8.7 U	8.7 U	3.7 J	17 U	2.3 J	8.7 U	4.1 J	0.83 J	40 J	8.7 U	8.7 U	1.7 J	20 J	3.1 J	3.6 J	8.7 U	8.7 U	8.7 U	7 J	44 U	8.7 U	44 U	1500
	01/12/11	ORIG	250	18	1.7 U	1.7 U	1.7 U	1.7 U	8	1.7 U	1.7 U	1.1 J	0.65 J	2.1	0.53 J	1.7 U	0.73 J	9.8	1.7 U	1.7 U	1.7 U	1 J	0.91 J	1.2 J	0.2 J	0.66 J	0.55 J	0.62 J	8.6 U	1.7 U	8.6 U	300
	04/11/11	ORIG	400	25	2.6 U	2.6 U	2.6 U	2.6 U	21	2.6 U	2.6 U	3	5.2 U	1.4 J	0.71 J	1.6 J	0.78 J	50	2.3 J	2.6 U	2.6 U	2.9 J	0.67 J	0.18 J	2.6 U	2.6 U	2.6 U	1.3 J	13 U	2.6 U	13 U	510
	06/30/11	ORIG	180	11	1.9 U	1.9 U	1.9 U	1.9 U	5.3	1.9 U	1.9 U	0.85 J	3.8 U	1.9 U	1.9 U	1.9 U	0.57 J	250	26	1.9 U	1.9 U	1.2 J	20	92	12	36	12	9.5 U	76	1.9 U	9.5 U	730
	09/07/11	ORIG	130	8.6	1.9 U	1.9 U	1.9 U	1.9 U	5.8	1.9 U	1.9 U	0.68 J	3.7 U	0.8 J	1.9 U	0.58 J	1.9 U	41	3.6	1.9 U	1.9 U	0.82 J	1.5 J	4	0.77 J	3	1.3 J	2.1 J	2.2 J	1.9 U	9.4 U	210
	12/20/11	ORIG	100	5.3	1.8 U	1.8 U	1.8 U	1.8 U	4.8	1.8 U	1.8 U	0.47 J	3.6 U	0.46 J	1.8 U	1.8 U	0.61 J	10	1.8 U	1.8 U	1.8 U	9 U	0.45 J	0.47 J	0.54 J	1.9	0.72 J	9 U	9 U	1.8 U	9 U	130
VMP-12	07/07/10	ORIG	12000	2100	620 U	620 U	460 U	460 U	200	140	450 U	180	470 U	400 U	640 U	19 J	570 U	5400	250	470 U	16 J	1800 U	48 J	78 J	16 J	110	45 J	1400 U	120 J	290 U	2000 U	21000
	09/08/10	ORIG	4800	170	21 U	21 U	21 U	21 U	36	21 U	21 U	9 J	42 U	21 U	21 U	5.7 J	21 U	39 J	21 U	21 U	21 U	27 J	3.5 J	7.5 J	21 U	6.3 J	2.6 J	100 U	100 U	21 U	100 U	5100
	01/12/11	ORIG	750	21	5.9 U	5.9 U	5.9 U	5.9 U	8	5.9 U	5.9 U	1.2 J	2 J	2.8 J	0.99 J	2.2 J	0.68 J	45	5.9 U	5.9 U	5.9 U	11 J	3.5 J	21	1.8 J	5.8 J	3 J	1.9 J	0.94 J	5.9 U	30 U	880
	04/11/11	ORIG	740	38	4.7 U	4.7 U	4.7 U	4.7 U	19	4.7 U	4.7 U	1.7 J	0.92 J	4.7 U	0.71 J	1.3 J	0.77 J	23	4.7 U	4.7 U	4.7 U	23 U	2 J	4.2 J	1.2 J	5.6	2.2 J	1.5 J	1.4 J	4.7 U	23 U	840
	06/30/11	ORIG	540	22	3.5 U	3.5 U	3.5 U	3.5 U	8.7	0.93 J	3.5 U	0.94 J	7 U	3.5 U	3.5 U	1.3 J	0.6 J	57	6.5	3.5 U	3.5 U	2.9 J	1 J	1.6 J	4.5	6.3	2.4 J	17 U	17 U	3.5 U	17 U	660
	09/07/11	ORIG	530	19	2.6 U	2.6 U	2.6 U	2.6 U	7.7	2.6 U	2.6 U	0.66 J	5.2 U	2.6 U	2.6 U	1.1 J	0.62 J	33	3.7	2.6 U	2.6 U	1.8 J	1.4 J	1.3 J	2.6 U	2.6 U	2.6 U	13 U	13 U	2.6 U	13 U	600

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VMP-12	12/20/11	ORIG	17	0.46 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	1.7 U	1.7 U	0.64 J	13	1.7 U	1.7 U	1.7 U	8.7 U	1 J	1.8	0.33 J	1.3 J	0.63 J	8.7 U	8.7 U	1.7 U	8.7 U	36
VMP-13	07/07/10	ORIG	660	31	3.7 J	27 U	2.4 J	20 U	51	20 U	0.76 J	22	20 U	7.1	32	70	1.1 J	69	9	20 U	0.86 J	2.8 J	3.4 J	4.4 J	1.6 J	5.1	1.8 J	61 U	7 J	13 U	89 U	990
	09/08/10	ORIG	430	15	0.24 J	0.73 J	1.8 U	0.64 J	1.2 J	1.8 U	1.8 U	1.3 J	0.75 J	1.8 U	0.98 J	9.9	0.76 J	6.3 J	1.1 J	1.8 U	1.8 U	2.8 J	0.42 J	0.26 J	1.8 U	1.8 U	1.8 U	9 U	9 U	1.8 U	9 U	470
	01/12/11	ORIG	41	6.2	1.7 U	1.7 U	1.7 U	1.7 U	4.5	1.7 U	1.7 U	1.1 J	3.5 U	1.7 U	5.8	14	0.82 J	6.6 J	1.7 U	1.7 U	1.7 U	5.8 J	0.67 J	0.49 J	1.7 U	1.7 U	1.7 U	8.7 U	8.7 U	1.7 U	8.7 U	87
	04/11/11	ORIG	42	4.9	1.7 U	1.7 U	1.7 U	1.7 U	3.2	1.7 U	1.7 U	1.3 J	3.4 U	1.7 U	2.9	8.9	0.81 J	9	1.6 J	1.7 U	1.7 U	2 J	2.9	0.17 J	1.7 U	1.7 U	1.7 U	8.6 U	8.6 U	1.7 U	8.6 U	80
	06/30/11	ORIG	11	0.67 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.1 J	1.8 U	1.8 U	1.8 U	0.63 J	50	9.1	1.8 U	1.8 U	2.1 J	0.49 J	0.35 J	1.8 U	1.8 U	1.8 U	9 U	9 U	1.8 U	9 U	75
	09/07/11	ORIG	2.1	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.71 J	0.58 J	1.7 U	1.7 U	0.65 J	18	2.2	1.7 U	1.7 U	19	1.2 J	1.5 J	0.12 J	0.44 J	1.7 U	8.7 U	0.89 J	1.7 U	8.7 U	47
	12/20/11	ORIG	8.7	1.4 J	1.7 U	1.7 U	1.7 U	1.7 U	0.45 J	1.7 U	1.7 U	0.4 J	3.4 U	1.7 U	0.71 J	1.8	0.6 J	8.4 U	1.7 U	1.7 U	1.7 U	8.4 U	0.54 J	0.98 J	1.7 U	0.49 J	1.7 U	8.4 U	8.4 U	1.7 U	8.4 U	16
VMP-14	07/07/10	ORIG	270	12	0.32 J	11 U	7.9 U	7.9 U	5.4	7.7 U	7.7 U	3.2	0.7 J	0.79 J	0.6 J	1.8 J	0.58 J	14	5.7 U	7.9 U	7 U	30 U	0.54 J	1.2 J	8.4 U	8.4 U	0.25 J	24 U	0.27 J	5 U	34 U	310
	09/08/10	ORIG	280	9.1	1.7 U	0.43 J	1.7 U	1.7 U	0.63 J	1.7 U	1.7 U	0.71 J	0.69 J	1.7 U	0.63 J	4.2	0.75 J	4.4 J	1.7 U	1.7 U	1.7 U	1.1 J	0.53 J	0.58 J	1.7 U	0.5 J	0.36 J	8.7 U	8.7 U	1.7 U	0.97 J	310
	01/12/11	ORIG	1900	240	9.6 J	16 U	16 U	16 U	2700	16 U	16 U	2.4 J	32 U	13 J	970	3300	3.2 J	57 J	16 U	16 U	16 U	53 J	7.6 J	17	2.4 J	7.3 J	4 J	80 U	3.5 J	16 U	80 U	9300
	04/11/11	ORIG	15000	3500	76 U	76 U	76 U	76 U	7500	76 U	76 U	14 J	150 U	76 U	1200	3700	76 U	180 J	76 U	76 U	76 U	380 U	16 J	11 J	76 U	76 U	7.1 J	380 U	380 U	76 U	380 U	31000
	06/30/11	ORIG	190	25	1.8 U	1.8 U	1.8 U	1.8 U	4.7	1.8 U	1.8 U	0.3 J	0.85 J	1.8 U	0.75 J	1.3 J	0.64 J	32	5.9	1.8 U	1.8 U	8.9 U	1 J	1 J	1.8 U	0.79 J	0.41 J	8.9 U	8.9 U	1.8 U	8.9 U	260
	09/07/11	ORIG	20	2.7	1.7 U	1.7 U	1.7 U	1.7 U	0.8 J	1.7 U	1.7 U	1.7 U	0.79 J	1.3 J	1.7 U	1.7 U	0.73 J	37	5	1.7 U	1.7 U	4.7 J	1.5 J	2.3	0.19 J	0.6 J	0.3 J	2.6 J	0.73 J	1.7 U	8.7 U	81
	12/20/11	ORIG	27	4.1	1.7 U	1.7 U	1.7 U	1.7 U	1.2 J	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	1.7 U	0.83 J	0.64 J	4.4 J	1.7 U	1.7 U	1.7 U	1.5 J	0.53 J	2.1	0.95 J	5.9	1.4 J	8.7 U	8.7 U	1.7 U	8.7 U	51
VMP-15	07/07/10	ORIG	1900	92	78 U	78 U	58 U	58 U	7.8 J	11 J	57 U	29	59 U	50 U	80 U	1.5 J	71 U	240	26	59 U	14	220 U	20	50	7.4 J	41	14	180 U	29 J	37 U	260 U	2500
	09/08/10	ORIG	940	31	4.4 U	4.4 U	4.4 U	4.4 U	4.5	1 J	4.4 U	2.5 J	8.7 U	4.4 U	0.62 J	2.9 J	0.64 J	21 J	4.4 U	2.2 J	13	5.6 J	1.2 J	2.9 J	0.5 J	2 J	0.82 J	3.6 J	0.57 J	4.4 U	2.5 J	1000
	01/13/11	ORIG	470	16	2.3 J	2.7 U	2.7 U	2.7 U	4.6	2.7 U	2.7 U	0.94 J	5.3 U	3.1	1.3 J	9.6	0.71 J	18	2.7 U	2.7 U	2.7 U	35	1.3 J	1.9 J	0.81 J	3.1	1.6 J	0.97 J	0.38 J	2.7 U	1.5 J	570
	04/11/11	ORIG	350	16	1.8 U	1.8 U	1.8 U	1.8 U	9.2	1.8 U	1.8 U	0.56 J	0.84 J	1.8 U	0.9 J	1.3 J	0.8 J	5.9 J	1.8 U	1.8 U	1.8 U	5 J	1.2 J	1.8	0.25 J	1.2 J	0.47 J	9.2 U	9.2 U	1.8 U	9.2 U	400
	06/30/11	ORIG	100	4.5	1.8 U	1.8 U	1.8 U	1.8 U	1.7 J	1.8 U	1.8 U	1.8 U	1 J	1.8 U	1.8 U	0.48 J	0.68 J	70	8.5	1.8 U	1.8 U	0.82 J	0.94 J	1.6 J	0.21 J	0.8 J	0.29 J	8.9 U	8.9 U	1.8 U	8.9 U	190
	09/07/11	ORIG	310	8.1	1.7 U	1.7 U	1.7 U	1.7 U	1.3 J	1.7 U	1.7 U	0.38 J	3.5 U	0.49 J	1.7 U	1.7 U	0.64 J	26	2	1.7 U	1.7 U	8.7 U	0.95 J	1.2 J	1.7 U	0.44 J	1.7 U	1.4 J	8.7 U	1.7 U	1.3 J	350
	12/20/11	ORIG	150	6	1.7 U	1.7 U	1.7 U	1.7 U	2.3	1.7 U	1.7 U	0.41 J	3.4 U	1.7 U	1.7 U	1.7 U	0.53 J	7.4 J	1.7 U	1.7 U	1.7 U	1.9 J	0.43 J	1.1 J	0.58 J	2.4	0.76 J	8.4 U	8.4 U	1.7 U	8.4 U	170
VMP-16	07/07/10	ORIG	320	16	0.2 J	10 U	0.41 J	7.6 U	9.6	7.4 U	7.4 U	3.1	7.7 U	0.45 J	0.66 J	1.6 J	0.56 J	14	5.5 U	7.7 U	6.7 U	29 U	0.68 J	1.4 J	0.18 J	0.58 J	0.22 J	0.92 J	0.24 J	4.8 U	33 U	370
	09/08/10	ORIG	930	48	0.46 J	0.84 J	0.59 J	1 J	10	4.5 U	4.5 U	3.8 J	9 U	4.5 U	1.4 J	15	0.7 J	25	3.3 J	4.5 U	4.5 U	3.7 J	1.1 J	6.1	1.5 J	6.6	3 J	23 U	1.6 J	4.5 U	23 U	1100
	01/12/11	ORIG	34	1.9	1.7 U	1.7 U	1.7 U	1.7 U	0.46 J	1.7 U	1.7 U	1.7 U	0.85 J	1.7 U	0.5 J	1.7 U	0.61 J	26	1.2 J	1.7 U	1.7 U	0.39 J	2	2.1	0.33 J	1.1 J	0.46 J	8.7 U	0.33 J	1.7 U	8.7 U	72
	04/11/11	ORIG	390	26	1.8 U	1.8 U	1.8 U	1.8 U	9.5	1.8 U	1.8 U	1 J	3.7 U	1.8 U	0.55 J	1.8 U	0.82 J	20	1.8 U	1.8 U	1.8 U	4.9 J	1.9	0.36 J	1.8 U	1.8 U	1.8 U	2 J	9.2 U	1.8 U	9.2 U	460
	06/30/11	ORIG	26	1.2 J	1.8 U	1.8 U	1.8 U	1.8 U	0.46 J	1.8 U	1.8 U	1.8 U	1.3 J	1.8 U	1.8 U	1.8 U	0.62 J	56	5.8	1.8 U	1.8 U	8.9 U	1.3 J	0.71 J	1.8 U	1.8 U	1.8 U	1.6 J	8.9 U	1.8 U	8.9 U	95
	09/07/11	ORIG	89	4.8	1.7 U	1.7 U	1.7 U	1.7 U	1.5 J	1.7 U	1.7 U	1.7 U	3.5 U	0.79 J	1.7 U	1.7 U	0.63 J	26	6.1	1.7 U	1.7 U	5.7 J	1.2 J	2.2	0.22 J	0.87 J	0.32 J	2 J	1.1 J	1.7 U	8.7 U	140
	12/20/11	ORIG	86	4.3	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	6.7 U	3.4 U	3.4 U	3.4 U	3.4 U	17 U	3.4 U	3.4 U	3.4 U	17 U	68	520	130	480	130	17 U	39	3.4 U	17 U	1500
VMP-17	07/07/10	ORIG	1800	17	52 U	52 U	39 U	3.5 J	5.4 J	38 U	38 U	9.2 J	39 U	33 U	54 U	1.2 J	47 U	32 J	28 U	39 U	4.2 J	6 J	2.2 J	4.2 J	1.6 J	7.5 J	2.1 J	120 U	5 J	24 U	170 U	1900
	09/08/10	ORIG	890	19	4.4 U	0.6 J	4.4 U	1.1 J	2 J	1.9 J	4.4 U	2.3 J	8.7 U	1.3 J	0.74 J	6	0.76 J	26	3.8 J	4.4 U	4.4 U	22 U	0.88 J	26	5.1	3.4 J	1.1 J	22 U	1.4 J	4.4 U	22 U	990

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VMP-17	01/12/11	ORIG	460	15	4.6	1.9 U	1.9 U	1.9 U	30	1.9 U	1.9 U	0.6 J	3.7 U	0.98 J	11	53	0.64 J	7.8 J	1.9 U	1.9 U	1.9 U	1.9 J	1.2 J	2.4	59	180	74	9.4 U	0.22 J	1.9 U	9.4 U	900
	04/11/11	ORIG	43	1.9 J	2.1 U	2.1 U	2.1 U	2.1 U	0.51 J	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	0.34 J	2.1 U	0.66 J	47	6.2	2.1 U	2.1 U	11 U	1.9 J	0.78 J	2.1 U	0.57 J	0.27 J	2.9 J	11 U	2.1 U	11 U	110
	06/30/11	ORIG	43	0.31 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	1.8 U	1.8 U	0.63 J	77	19	1.8 U	1.8 U	9 U	0.49 J	0.44 J	0.15 J	0.66 J	0.3 J	1.3 J	9 U	1.8 U	9 U	150
	09/07/11	ORIG	30	0.39 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.75 J	0.62 J	1.7 U	1.7 U	0.66 J	22	3.6	1.7 U	1.7 U	3.1 J	0.59 J	0.72 J	1.7 U	0.85 J	0.26 J	8.7 U	0.66 J	1.7 U	8.7 U	64
	12/20/11	ORIG	1 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.83 J	1.9 U	1.9 U	1.9 U	0.59 J	12	1.9 U	1.9 U	1.9 U	9.7 U	0.77 J	1.8 J	1.2 J	5.5	1.9	9.7 U	9.7 U	1.9 U	9.7 U	26
VMP-18	06/09/10	ORIG	46000	30000	1500 U	1500 U	1100 U	1100 U	24000	1100 U	1100 U	41 J	1100 U	960 U	2300	3100	1400 U	3100	150 J	1100 U	1000 U	4300 U	35 J	89 J	1200 U	1200 U	1200 U	3400 U	4900 U	710 U	4900 U	110000
	09/08/10	ORIG	5200	2700	21 U	21 U	5.7 J	21 U	480	21 U	21 U	12 J	43 U	21 U	33	44	21 U	62 J	21 U	21 U	21 U	8.7 J	6.2 J	8.6 J	21 U	21 U	21 U	110 U	110 U	21 U	110 U	8600
	01/12/11	ORIG	2000	1100	10 U	10 U	10 U	10 U	650	10 U	10 U	3.9 J	21 U	3.1 J	98	180	2 J	37 J	10 U	10 U	10 U	16 J	7.4 J	9.8 J	10 U	10 U	10 U	3.4 J	52 U	10 U	52 U	4100
	04/11/11	ORIG	670	360	0.41 J	0.41 J	3.5 U	3.5 U	710	3.5 U	3.5 U	1.2 J	1.2 J	3.5 U	67	110	1.1 J	72	4.1	3.5 U	3.5 U	7.8 J	7.7	20	3.5	22	6.7	17 U	1.4 J	3.5 U	17 U	2100
	06/30/11	ORIG	200	69	1.7 U	1.7 U	1.7 U	1.7 U	14	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	1.8	2.1	0.66 J	27	4.1	1.7 U	1.7 U	5.6 J	0.7 J	0.32 J	1.7 U	1.7 U	1.7 U	1.7 J	8.7 U	1.7 U	8.7 U	330
	09/07/11	ORIG	140	48	1.8 U	1.8 U	1.8 U	1.8 U	9.7	1.8 U	1.8 U	1.8 U	0.65 J	1.8 U	1.1 J	1.9	0.64 J	130	25	1.8 U	1.8 U	3.2 J	1.1 J	1 J	1.8 U	1.8 U	1.8 U	9 U	0.52 J	1.8 U	9 U	370
VMP-19	06/09/10	ORIG	35000	3400	950 U	950 U	710 U	710 U	45000	690 U	690 U	33 J	720 U	610 U	7200	16000	870 U	2000	520 U	720 U	630 U	2700 U	29 J	67 J	760 U	760 U	25 J	2200 U	3100 U	450 U	3100 U	110000
	09/08/10	ORIG	8800	790	46 U	46 U	46 U	46 U	1100	46 U	46 U	8.8 J	92 U	46 U	87	150	46 U	85 J	46 U	46 U	46 U	28 J	7 J	6.5 J	46 U	46 U	46 U	13 J	230 U	46 U	230 U	11000
	01/12/11	ORIG	1500	100	1.6 J	7.6 U	7.6 U	7.6 U	83	7.6 U	7.6 U	1.6 J	15 U	2.7 J	5.9 J	8.8	7.6 U	32 J	7.6 U	7.6 U	7.6 U	13 J	4.3 J	7.8	7.6 U	2.3 J	1.4 J	2 J	38 U	7.6 U	38 U	1800
	04/11/11	ORIG	1800	150	1.3 J	7.5 U	7.5 U	7.5 U	140	7.5 U	7.5 U	2 J	15 U	7.5 U	12	13	7.5 U	83	12	7.5 U	1.7 J	37 U	4.4 J	19	3.6 J	11	7.8	2.2 J	2.5 J	7.5 U	37 U	2300
	06/30/11	ORIG	1400	100	7.8 U	7.8 U	7.8 U	7.8 U	86	2 J	7.8 U	7.8 U	16 U	7.8 U	11	11	0.81 J	45	7.8 U	7.8 U	7.8 U	39 U	2.6 J	3.1 J	16	21	7.3 J	39 U	39 U	7.8 U	39 U	1700
	09/07/11	ORIG	1100	72	7.5 U	7.5 U	7.5 U	7.5 U	72	7.5 U	7.5 U	7.5 U	15 U	7.5 U	11	12	0.64 J	120	17	20	7.5 U	11 J	1.7 J	9.2	3.2 J	15	5.7 J	37 U	37 U	7.5 U	37 U	1500
	12/20/11	ORIG	480	33	0.44 J	1.7 U	1.7 U	1.7 U	33	1.7 U	1.7 U	0.25 J	3.5 U	1.7 U	4.2	4.7	0.58 J	15	1.7 U	1.7 U	1.7 U	8.7 U	0.71 J	0.42 J	1.7 U	0.61 J	1.7 U	8.7 U	8.7 U	1.7 U	8.7 U	570
VMP-20	06/09/10	ORIG	250000	4100	2100	1900 U	290 J	490 J	6500	1900 U	1900 U	370 J	3700 U	1900 U	220 J	1200 J	1900 U	11000	1900 U	1900 U	1900 U	9400 U	190 J	470 J	1900 U	1900 U	1900 U	9400 U	9400 U	1900 U	9400 U	280000
	09/08/10	ORIG	1500	72	2.9 J	7.4 U	7.4 U	2.3 J	95	7.4 U	1.7 J	21	15 U	7.4 U	47	140	1.1 J	39	7.4 U	3 J	7.4 U	7.1 J	1.7 J	4.2 J	7.4 U	2 J	0.83 J	2.4 J	37 U	7.4 U	37 U	1900
	01/12/11	ORIG	460	12	4	2.6 U	2.6 U	0.4 J	3.7	2.6 U	0.51 J	0.81 J	5.2 U	2.6 U	1.8 J	20	0.48 J	75	2.7	2.6 U	2.6 U	1 J	1 J	3.9	4	15	7.6	1.3 J	13 U	2.6 U	13 U	620
	04/11/11	ORIG	430	8.1	4.6	2.1 U	2.1 U	2.1 U	21	2.1 U	2.1 U	0.65 J	4.2 U	2.1 U	4.7	23	0.94 J	19	2.1 U	2.1 U	2.1 U	3.9 J	0.73 J	0.16 J	2.1 U	2.1 U	2.1 U	11 U	11 U	2.1 U	1.6 J	520
	06/30/11	ORIG	8	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.87 J	1.7 U	1.7 U	1.7 U	0.84 J	0.36 J	1 J	5.6	0.6 J	150	2.4	1.7 U	1.7 U	8.7 U	0.36 J	1.7	1.7 U	0.57 J	1.7 U	8.7 U	8.7 U	1.7 U	8.7 U	170
	09/07/11	ORIG	53	8.6	1.8 U	1.8 U	1.8 U	1.8 U	2	1.8 U	1.8 U	1.1 J	0.93 J	1.8 U	2.5	6.5	0.57 J	190	33	1.8 U	1.8 U	0.92 J	0.49 J	0.88 J	1.8 U	1.8 U	1.8 U	9 U	0.6 J	1.8 U	9 U	300
	12/20/11	ORIG	140	14	1.7 U	1.7 U	1.7 U	1.7 U	14	1.7 U	1.7 U	3	3.5 U	1.7 U	4.1	22	0.69 J	13	2.9	1.7 U	1.7 U	8.7 U	0.36 J	0.38 J	1.7 U	1.7 U	1.7 U	8.7 U	8.7 U	1.7 U	8.7 U	220
VMP-21	06/09/10	ORIG	47000	19000	1100 U	1100 U	370	800 U	4400	790 U	610	200	820 U	690 U	600	480	980 U	2800	140 J	810 U	710 U	3100 U	41 J	110 J	860 U	860 U	26 J	2400 U	3500 U	510 U	3500 U	76000
	09/08/10	ORIG	5000	1200	22 U	22 U	19 J	6.5 J	22	22 U	22 U	28	44 U	22 U	3.9 J	8.4 J	22 U	51 J	22 U	22 U	22 U	110 U	6.1 J	2.8 J	22 U	22 U	22 U	110 U	110 U	22 U	110 U	6300
	01/12/11	ORIG	810	92	0.37 J	0.82 J	3.5 U	1.4 J	5.1	3.5 U	3.5 U	2 J	7 U	1.1 J	1.9 J	1.8 J	0.6 J	25	3.5 U	3.5 U	0.59 J	5.3 J	2.4 J	4	0.54 J	1.6 J	1 J	1.2 J	17 U	3.5 U	17 U	960
	04/11/11	ORIG	540	64	1.5 J	0.55 J	5 U	5 U	25	5 U	5 U	5 U	10 U	5 U	2.3 J	3 J	0.95 J	150	5	5 U	5 U	6.7 J	24	90	14	78	23	3.1 J	12 J	5 U	25 U	1000
	06/30/11	ORIG	120	20	1.9 U	1.9 U	1.9 U	1.9 U	1.2 J	1.9 U	1.9 U	1.9 U	3.7 U	1.9 U	1.9 U	0.55 J	0.69 J	56	11	1.9 U	1.9 U	6.5 J	0.47 J	0.43 J	1.9 U	1.9 U	1.9 U	9.4 U	9.4 U	1.9 U	9.4 U	220
	09/07/11	ORIG	160	15	0.57 J	1.9 U	1.9 U	1.9 U	2.5	1.9 U	1.9 U	1.9 U	0.85 J	1.9 U	1.9 U	4.2	0.67 J	120	12	1.9 U	1.9 U	4.3 J	0.89 J	0.68 J	0.097 J	1.9 U	1.9 U	9.7 U	9.7 U	1.9 U	9.7 U	320
	12/20/11	ORIG	99	14	1.7 U	1.7 U	1.7 U	1.7 U	2.3	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	1.7 U	0.65 J	0.62 J	12	1.7 U	1.7 U	1.7 U	2.7 J	0.39 J	0.43 J	1.7 U	1.7 U	1.7 U	8.7 U	8.7 U	1.7 U	2.6 J	130

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VMP-22	06/09/10	ORIG	74000	15000	2700 U	2700 U	240 J	2000 U	14000	1900 U	1000	410 J	2000 U	1700 U	1000	3100	2400 U	1900 J	1400 U	2000 U	1800 U	7600 U	65 J	110 J	2100 U	2100 U	2100 U	6000 U	8600 U	1200 U	8800 U	110000
	06/09/10	DUP	75000	15000	2700 U	2700 U	230 J	2000 U	15000	1900 U	1100	420 J	2000 U	1700 U	1000	3200	2400 U	2900	1400 U	2000 U	1800 U	7600 U	64 J	150 J	2100 U	2100 U	2100 U	6000 U	8600 U	1200 U	8600 U	110000
	09/08/10	ORIG	10000	1600	24 J	48 J	39 J	41 J	210	71 U	18 J	140	140 U	15 J	270	4000	8.2 J	730	120	71 U	9.2 J	350 U	20 J	60 J	20 J	41 J	15 J	32 J	47 J	71 U	350 U	18000
	01/12/11	ORIG	1400	280	6.9 U	15	6.9 U	2.6 J	12	6.9 U	2.4 J	5.8 J	14 U	3.3 J	1.5 J	2.9 J	0.81 J	65	6.9 U	6.9 U	6.9 U	9.8 J	3.1 J	8.4	1.2 J	3.9 J	2 J	34 U	34 U	6.9 U	3.5 J	1800
	04/11/11	ORIG	640	200	0.75 J	7.1	5.6 U	5.6 U	17	5.6 U	1.6 J	4.3 J	3 J	1.8 J	3.2 J	8.5	1.2 J	130	13	5.6 U	5.6 U	9 J	12	190	48	210	74	5.6 J	5.3 J	5.6 U	28 U	1600
	06/30/11	ORIG	510	49	0.84 J	2 J	2.9 U	2.9 U	2.5 J	2.9 U	2.9 U	1.3 J	1.2 J	2.9 U	2.9 U	0.78 J	0.66 J	110	23	2.9 U	2.9 U	1.7 J	0.87 J	0.6 J	2.9 U	2.9 U	2.9 U	14 U	14 U	2.9 U	5.5 J	710
	09/07/11	ORIG	260	23	3.4	0.62 J	1.9 U	1.9 U	3.3	1.9 U	0.7 J	0.97 J	1.7 J	1.6 J	1.9 U	0.75 J	0.66 J	48	4.5	1.9 U	1.9 U	9.4 U	0.71 J	0.96 J	0.13 J	1.9 U	1.9 U	9.4 U	9.4 U	1.9 U	3.2 J	350
	12/20/11	ORIG	150	11	0.4 J	0.65 J	1.7 U	1.7 U	1.9	1.7 U	0.6 J	0.84 J	3.4 U	1.4 J	1.7 U	0.77 J	0.61 J	16	2.6	1.7 U	1.7 U	8.4 U	1.7 U	0.43 J	1.7 U	1.7 U	1.7 U	8.4 U	8.4 U	1.7 U	8.4 U	190
VMP-23	06/09/10	ORIG	100000	9500	4200 U	4200 U	3100 U	3100 U	79000	3100 U	3100 U	3800 U	3200 U	2700 U	8600	29000	3800 U	3900	2300 U	3200 U	2800 U	550 J	75 J	220 J	3400 U	3400 U	79 J	9600 U	14000 U	2000 U	14000 U	230000
	09/08/10	ORIG	30000	2200	210 U	210 U	38 J	210 U	1400	210 U	210 U	44 J	420 U	210 U	210 U	77 J	210 U	670 J	210 U	210 U	210 U	640 J	23 J	57 J	210 U	210 U	210 U	54 J	1000 U	210 U	1000 U	35000
	09/08/10	DUP	41000	3300	260 U	260 U	46 J	260 U	2000	260 U	260 U	260 U	520 U	260 U	260 U	55 J	260 U	1100 J	260 U	260 U	260 U	760 J	32 J	75 J	260 U	260 U	260 U	140 J	1300 U	260 U	1300 U	49000
	01/12/11	ORIG	12000	390	67 U	67 U	67 U	67 U	110	67 U	67 U	16 J	130 U	67 U	67 U	67 U	67 U	130 J	67 U	67 U	67 U	25 J	27 J	40 J	67 U	67 U	67 U	340 U	340 U	67 U	340 U	13000
	04/11/11	ORIG	6200	230	39 U	39 U	39 U	39 U	180	39 U	39 U	19 J	78 U	39 U	5 J	9.6 J	39 U	260	39 U	39 U	8.6 J	190 U	10 J	14 J	39 U	11 J	5.5 J	190 U	190 U	39 U	190 U	7000
	06/30/11	ORIG	1700	37	9 U	9 U	2.9 J	9 U	42	9 U	9 U	18	18 U	2.4 J	9 U	3.3 J	0.94 J	62	9 U	9 U	6.3 J	6.4 J	3.4 J	9.3	3.8 J	6.8 J	4 J	45 U	3 J	9 U	45 U	1900
	09/07/11	ORIG	790	15	3.6 U	3.6 U	3.6 U	3.6 U	22	3.6 U	3.6 U	2.7 J	7.2 U	3.6 U	3.6 U	2.1 J	3.6 U	53	4.7	3.6 U	4.4	22	1.3 J	2.2 J	3.6 U	0.96 J	3.6 U	18 U	18 U	3.6 U	18 U	920
	12/20/11	ORIG	1100	22	5.2 U	5.2 U	5.2 U	5.2 U	41	5.2 U	5.2 U	5.2	10 U	5.2 U	5.2 U	3.3 J	0.73 J	23 J	5.2 U	5.2 U	8.7	26 U	2.3 J	21	5.2	27	8	26 U	26 U	5.2 U	26 U	1300
VMP-24	06/09/10	ORIG	85000 J	10000 J	4200 U	4200 U	120 J	3100 U	37000 J	3100 U	3100 U	630 J	3200 U	2700 U	4200 J	13000 J	3800 U	2500 J	2300 U	3200 U	2800 U	890 J	93 J	88 J	3400 U	3400 U	3400 U	9600 U	14000 U	2000 U	14000 U	150000
	06/09/10	DUP	120000 J	14000 J	4200 U	4200 U	170 J	3100 U	51000 J	3100 U	3100 U	810	3200 U	2700 U	5800 J	18000 J	3800 U	2800 J	2300 U	3200 U	2800 U	12000 U	130 J	570 J	720 J	1800	630 J	9600 U	14000 U	2000 U	14000 U	220000
	09/08/10	ORIG	13000	970	69 U	69 U	9.9 J	69 U	320	69 U	69 U	59 J	140 U	69 U	13 J	27 J	69 U	440	67 J	69 U	8.5 J	340 U	12 J	36 J	7.1 J	69 U	6.3 J	340 U	27 J	69 U	340 U	15000
	01/12/11	ORIG	3200	86	23 U	23 U	23 U	23 U	30	23 U	23 U	4.1 J	46 U	23 U	23 U	7 J	23 U	36 J	23 U	23 U	8.9 J	11 J	10 J	9.8 J	23 U	23 U	23 U	110 U	110 U	23 U	110 U	3400
	04/11/11	ORIG	1100	47	1.1 J	2.8 J	7.4 U	7.4 U	45	7.4 U	7.4 U	2 J	2.7 J	7.4 U	3.8 J	7.2 J	1.1 J	120	12	6.5 J	14	4 J	4.1 J	17	4.8 J	14	8	3.2 J	6.8 J	7.4 U	37 U	1400
	06/30/11	ORIG	570	23	4 U	4 U	4 U	4 U	39	4 U	4 U	0.71 J	8.1 U	4 U	2.6 J	3.8 J	0.84 J	84	11	4 U	11	3.7 J	1.6 J	4.5	0.8 J	1.9 J	0.87 J	3.1 J	1.9 J	4 U	20 U	760
	09/07/11	ORIG	960	42	8.4 U	8.4 U	8.4 U	8.4 U	72	8.4 U	8.4 U	1.7 J	17 U	8.4 U	6.4 J	9	0.64 J	75	8.4 U	20	7.4 J	13 J	8.4 U	1.2 J	8.4 U	8.4 U	8.4 U	8.6 J	42 U	8.4 U	42 U	1200
	12/20/11	ORIG	570	15	3.4 U	3.4 U	3.4 U	3.4 U	11	3.4 U	3.4 U	0.65 J	6.7 U	3.4 U	3.4 U	1.3 J	0.58 J	16 J	3.4 U	3.5	5.7	3.6 J	1.7 J	11	2.8 J	14	4.2	17 U	17 U	3.4 U	17 U	660
VMP-25	06/09/10	ORIG	50000	3000	2100 U	2100 U	1600 U	1600 U	18000	1500 U	1500 U	1900 U	1600 U	1400 U	1600	4400	1900 U	1400 J	1100 U	1600 U	1400 U	6100 U	1200 U	79 J	43 J	1700 U	1700 U	4800 U	6900 U	990 U	6900 U	79000
	09/08/10	ORIG	1800	34	8.7 U	8.7 U	8.7 U	8.7 U	12	8.7 U	8.7 U	1.6 J	17 U	8.7 U	1.3 J	8.2 J	1.3 J	48	8.7 U	8.7 U	8.7 U	51	1.6 J	7.3 J	1.2 J	5.5 J	2.3 J	3.7 J	44 U	8.7 U	44 U	2000
	01/12/11	ORIG	310	7.3	1.7 U	1.7 U	1.7 U	1.7 U	6.2	1.7 U	1.7 U	0.52 J	3.4 U	1.7 U	0.75 J	0.29 J	0.8 J	74	2.9	1.7 U	1.7 U	8.6 U	1.5 J	2.8	0.35 J	0.98 J	0.46 J	1.6 J	0.5 J	1.7 U	8.6 U	410
	04/11/11	ORIG	340	9.5	2.2 U	2.2 U	2.2 U	2.2 U	9.5	2.2 U	2.2 U	0.4 J	4.5 U	2.2 U	0.83 J	1.5 J	0.7 J	110	16	2.2 U	2.2 U	1.7 J	7.7	2 J	2.2 U	2.2 U	0.25 J	2.6 J	11 U	2.2 U	11 U	500
	06/30/11	ORIG	580	8.3	3.5 U	3.5 U	3.5 U	3.5 U	5.5	3.5 U	3.5 U	2.9 J	7 U	3.5 U	3.5 U	5.7	0.77 J	37	3.4 J	3.5 U	3.5 U	1.7 J	1.4 J	3.1 J	9.9	13	4.6	17 U	1.1 J	3.5 U	17 U	680
	09/07/11	ORIG	470	12	3.7 U	3.7 U	1.2 J	3.7 U	9.4	3.7 U	3.7 U	4.6	7.5 U	3.7 U	3.7 U	10	3.7 U	75	5.8	14	3.7 U	6.3 J	3.8	22	3.8	41	15	6.1 J	4.9 J	3.7 U	19 U	710
	12/20/11	ORIG	100	1.7 J	1.9 U	1.9 U	1.9 U	1.9 U	3	1.9 U	1.9 U	1.9 U	3.7 U	1.9 U	1.9 U	0.87 J	0.62 J	12	2.1	1.9 U	1.9 U	9.4 U	1.9 U	0.43 J	1.9 U	1.9 U	1.9 U	9.4 U	9.4 U	1.9 U	9.4 U	120

Table D7
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Vapor Extraction (VE) Well and Vapor Monitoring Probe (VMP) Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	CFM	CMT	MC	Freon 11	Freon 113	Freon 12	Acetone	2-Butanone	4M2P	MTBE	Carbon disulfide	Benzene	Toluene	Ethyl benzene	m,p-Xylenes	o-Xylene	IPA	Hexane	VC	1,4-Dioxane	Total VOCs
VMP-26	10/06/10	ORIG	270	49	4.8 U	4.8 U	4.8 U	4.8 U	2 J	0.72 J	4.8 U	4.8 U	2.1 J	0.87 J	0.7 J	4.1 J	0.6 J	35	29	4.8 U	4.8 U	4.2 J	2.8 J	21	5.2	28	10	24 U	2.1 J	4.8 U	24 U	470
	01/12/11	ORIG	150	9.2	2.8	1.7 U	1.7 U	1.7 U	0.9 J	1.7 U	1.7 U	0.22 J	0.56 J	1.7 U	1.1 J	1.3 J	0.67 J	96	18	1.7 U	1.7 U	0.28 J	0.67 J	0.66 J	1.7 U	1.7 U	1.7 U	1.4 J	8.6 U	1.7 U	8.6 U	280
	04/11/11	ORIG	150	11	3	1.9 U	1.9 U	1.9 U	2.6	1.9 U	1.9 U	0.27 J	0.62 J	1.9 U	1.9	2.7	0.65 J	50	85	1.9 U	1.9 U	33	0.44 J	0.22 J	1.9 U	1.9 U	1.9 U	0.83 J	9.4 U	1.9 U	9.4 U	340
	06/30/11	ORIG	9.2	0.93 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	1.8 U	1.8 U	0.68 J	170	240	1.8 U	1.8 U	2 J	0.57 J	0.48 J	1.8 U	1.8 U	1.8 U	9 U	9 U	1.8 U	9 U	430
	09/07/11	ORIG	11	1.4 J	2.1 U	2.1 U	2.1 U	2.1 U	0.43 J	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	0.6 J	180	68	2.1 U	2.1 U	4 J	0.49 J	0.6 J	2.1 U	2.1 U	2.1 U	11 U	0.61 J	2.1 U	11 U	270
	12/20/11	ORIG	12	3.8	1.7 U	1.7 U	1.7 U	1.7 U	1.2 J	1.7 U	1.7 U	1.7 U	1.5 J	1.7 U	1.7 U	1.7 U	0.61 J	51	1.4 J	1.7 U	1.7 U	0.66 J	0.38 J	0.38 J	1.7 U	1.7 U	1.7 U	8.7 U	8.7 U	1.7 U	8.7 U	73
VMP-27	10/08/10	ORIG	37	3.2	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.49 J	1.9 U	1.3 J	1.9 J	1.9 U	0.53 J	0.45 J	0.62 J	41	15	1.9 U	1.9 U	6.3 J	1.2 J	0.79 J	0.3 J	0.85 J	0.69 J	0.59 J	0.5 J	1.9 U	9.5 U	110
	01/12/11	ORIG	150	11	1.7 U	1.7 U	1.7 U	1.7 U	3.4	1.7 U	1.7 U	1.3 J	3.4 U	1.7 U	1.9	3	0.78 J	92	9.3	1.7 U	1.7 U	0.32 J	0.44 J	1.7 U	1.7 U	1.7 U	1.7 U	1.3 J	8.4 U	1.7 U	8.4 U	270
	04/11/11	ORIG	940	43	3.6 J	5.1 U	5.1 U	5.1 U	4.1 J	5.1 U	5.1 U	1.5 J	10 U	5.1 U	1.3 J	2.7 J	0.63 J	37	17	5.1 U	5.1 U	3.8 J	3.6 J	14	2.5 J	16	5.1	25 U	0.78 J	5.1 U	25 U	1100
	06/30/11	ORIG	1.1 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.7 U	1.8 U	1.8 U	1.8 U	0.65 J	77	71	1.8 U	1.8 U	3.3 J	1.8 U	0.6 J	1.8 U	1.8 U	1.8 U	9.2 U	9.2 U	1.8 U	9.2 U	150
	09/07/11	ORIG	4	0.44 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.89 J	1.9 U	1.9 U	1.9 U	0.66 J	120	86	1.9 U	1.9 U	1.5 J	0.49 J	0.8 J	1.9 U	1.9 U	1.9 U	9.4 U	9.4 U	1.9 U	9.4 U	220
	12/20/11	ORIG	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.7 U	1.7 U	1.7 U	0.72 J	8.2 J	1.7 U	1.7 U	1.7 U	1.6 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.4 U	8.4 U	1.7 U	8.4 U	11

Notes:

Concentrations are reported in parts per billion by volume (ppbv)
Only the most frequently detected compounds are presented in this table.
VOCs analyzed by EPA Method TO-15.

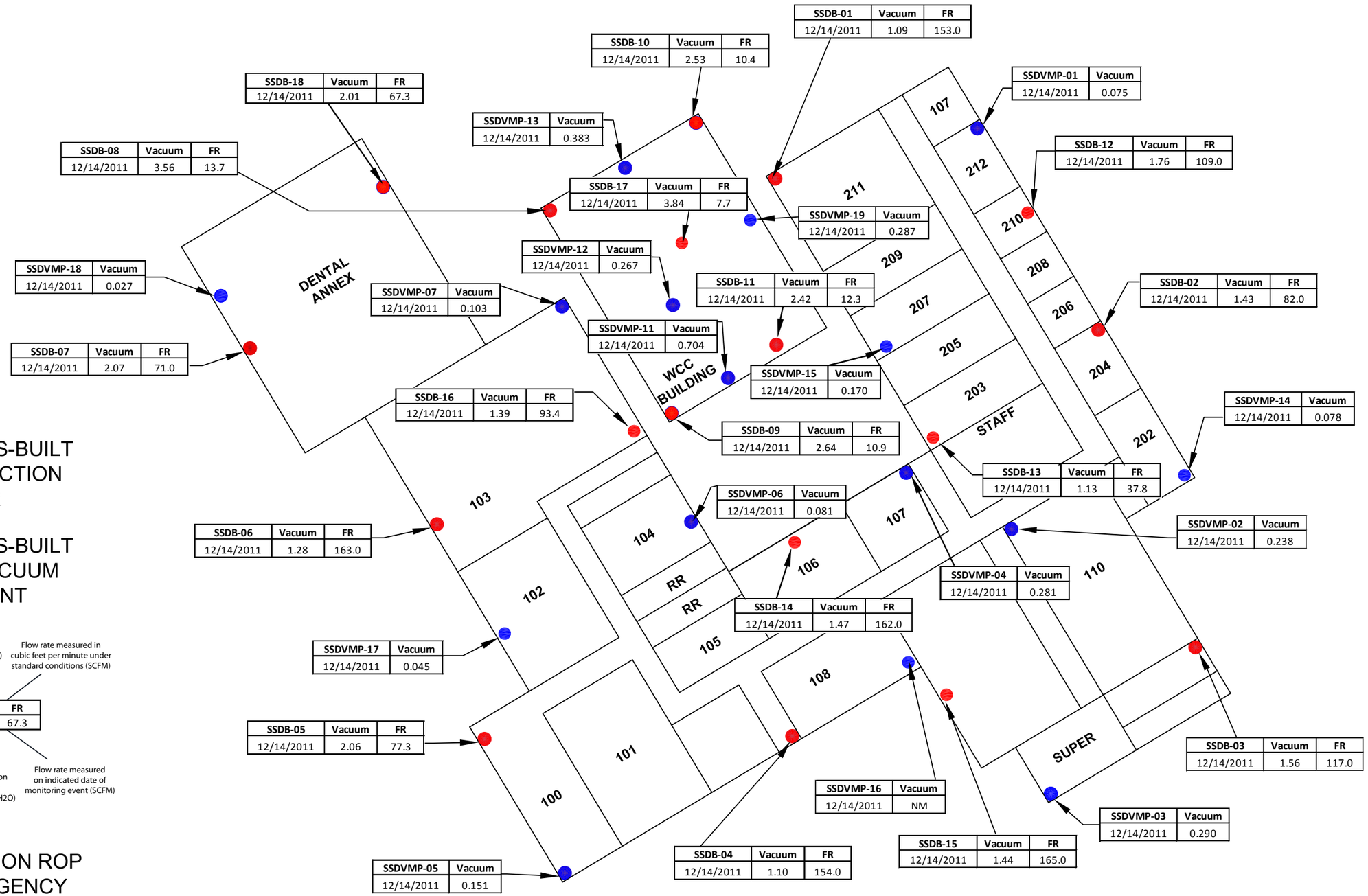
U = Not detected at a concentration greater than the reporting limit shown.

PCE = Tetrachloroethene; TCE = Trichloroethene; TCA = Trichloroethane; DCA = Dichloroethane; DCE = Dichloroethene; CFM = Chloroform; CMT = Chloromethane; MC = Methylene chloride; Freon 11 = Trichlorofluoromethane; Freon 113 = 1,1,2-Trihloro-1,2,2-trifluoroethane; Freon 12 = Dichlorodifluoromethane; 4M2P = 4-Methyl-2-Pentanone; MTBE = Methyl tert-butyl ether; IPA = Isopropyl alcohol, VC = Vinyl Chloride.

Sample Type:
ORIG = Original sample
DUP = Duplicate sample

Attachment E: Sub-Slab Depressurization Systems Figures and Tables

THIS DRAWING IS A PICTORIAL ILLUSTRATION OF THE ROOM LAYOUT IN THE ROP AND WCC BUILDINGS



LEGEND

APPROXIMATE AS-BUILT LOCATION OF SUCTION PIT AND BLOWER

APPROXIMATE AS-BUILT LOCATION OF VACUUM MONITORING POINT

Name of vapor monitoring point (VMP) or blower/suction pit (SSDB)

Vacuum measured in inches of water (in H2O)

Flow rate measured in cubic feet per minute under standard conditions (SCFM)

SSDB-18	Vacuum	FR
12/14/2011	2.01	67.3

Date of monitoring event

Vacuum measured on indicated date of monitoring event (in H2O)

Flow rate measured on indicated date of monitoring event (SCFM)

NM = Not Measured
FR = Flow Rate

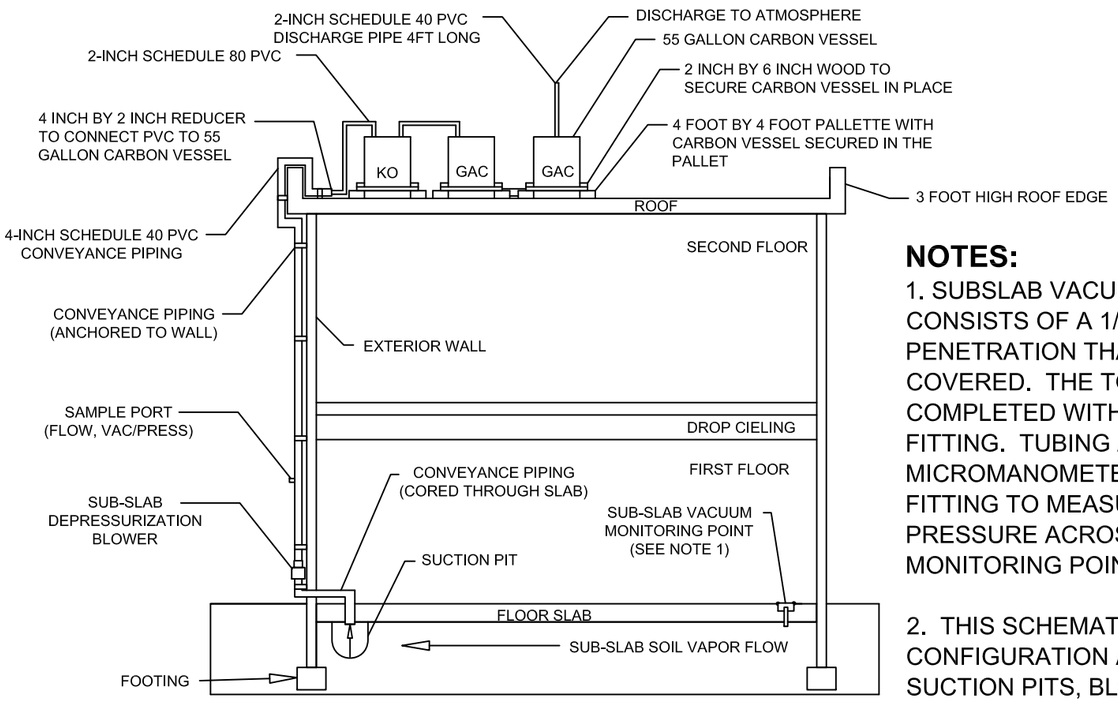
DRAWING IS BASED ON ROP EVACUATION/EMERGENCY EXIT MAP

N

DRAWING NOT TO SCALE

FIGURE E1
SUB-SLAB DEPRESSURIZATION SYSTEM SITE PLAN AND PERFORMANCE
OMEGA CHEMICAL SUPERFUND SITE
WCC AND ROP BUILDINGS
WHITTIER, CALIFORNIA

CDM Smith

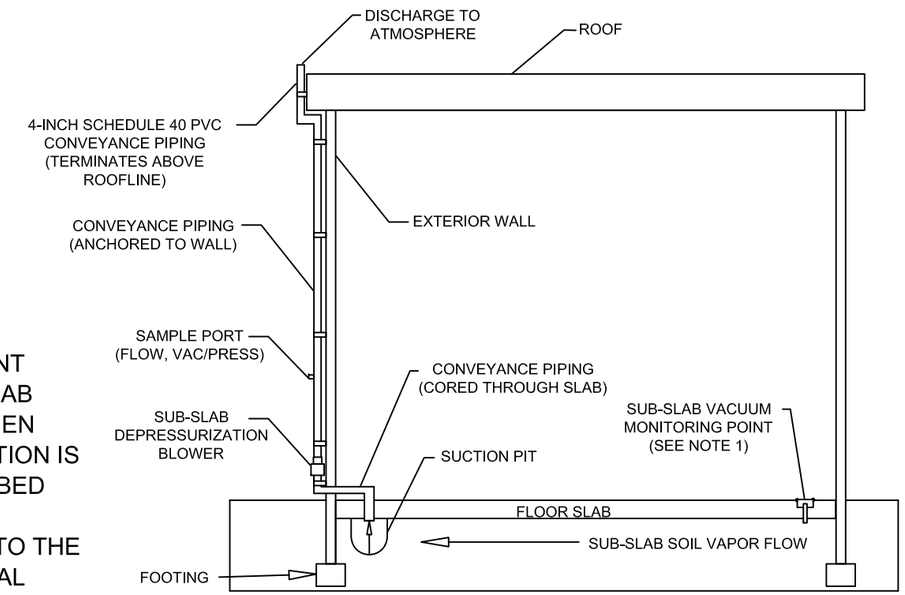


SSDB-8 INSTALLTION
(NOT TO SCALE)

NOTES:

1. SUBSLAB VACUUM MONITORING POINT CONSISTS OF A 1/2-INCH DIAMETER SLAB PENETRATION THAT IS SEALED AND THEN COVERED. THE TOP OF THE PENETRATION IS COMPLETED WITH A VALVE AND A BARBED FITTING. TUBING AND A DIGITAL MICROMANOMETER ARE CONNECTED TO THE FITTING TO MEASURE THE DIFFERENTIAL PRESSURE ACROSS THE SLAB AT THE MONITORING POINT.

2. THIS SCHEMATIC REPRESENTS THE GENERAL CONFIGURATION AND INSTALLATION OF THE SUCTION PITS, BLOWERS, AND VACCUM MONITORING POINTS AT THE SITE.



TYPICAL SECTION
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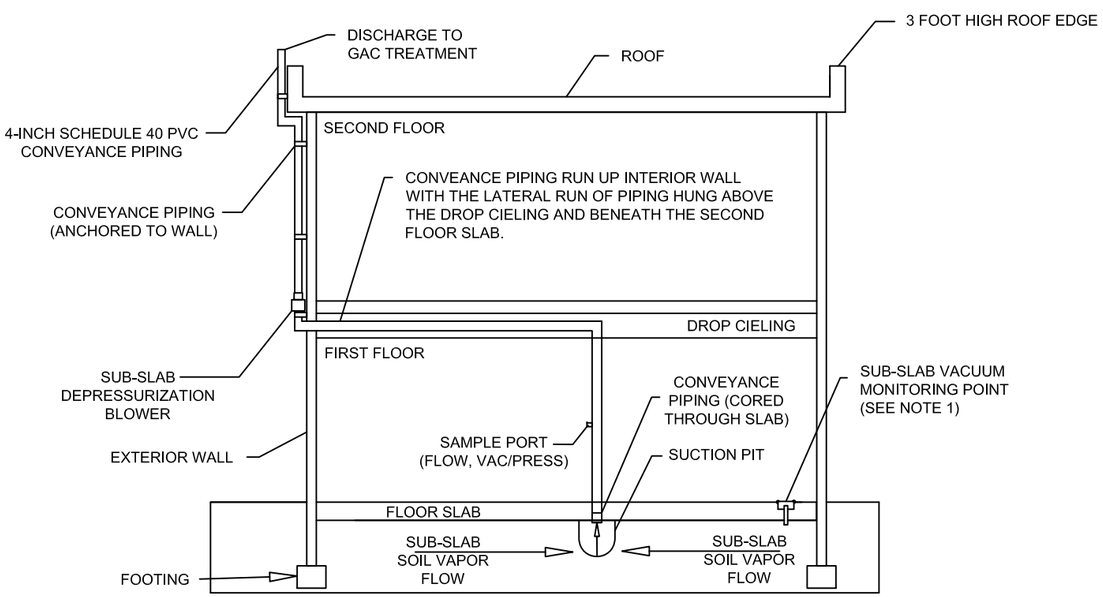

SSDB-17 INSTALLTION
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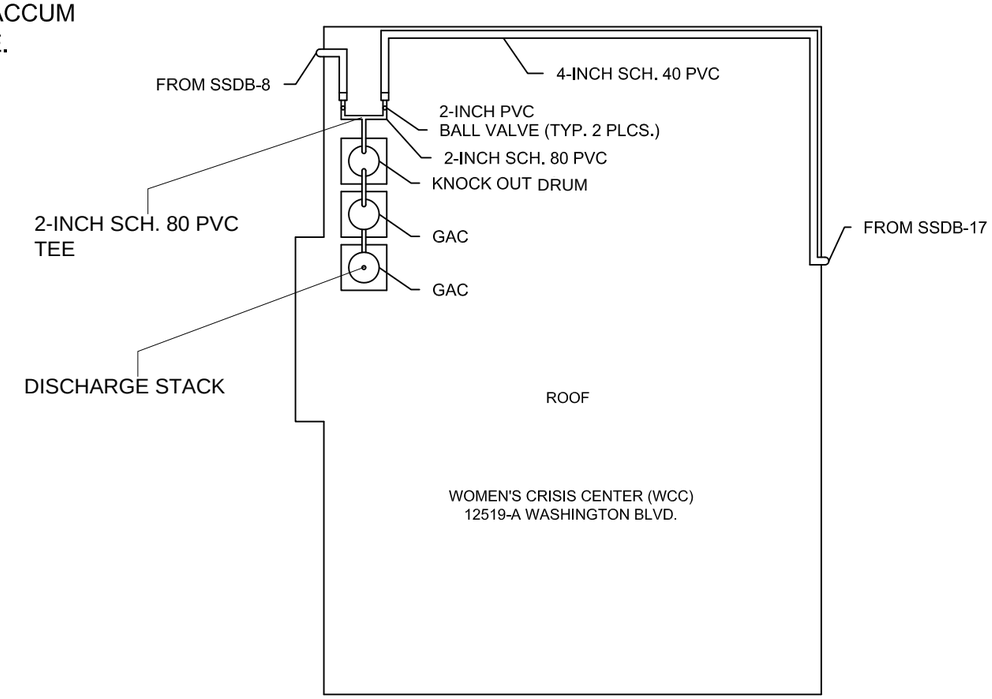

ROOF PLAN VIEW
(NOT TO SCALE)

FIGURE E2
AS-BUILT SCHEMATIC OF SUB-SLAB DEPRESSURIZATION DETAILS
OMEGA CHEMICAL SUPERFUND SITE
WCC AND ROP BUILDINGS
WHITTIER, CALIFORNIA

JACOB & HEFNER ASSOCIATES, INC.
ENVIRONMENTAL REMEDIATION SERVICES
15375 BARRANCA PARKWAY, SUITE #J-101
IRVINE, CALIFORNIA 92618
PHONE: (949) 453-1045 FAX: (949) 453-1047

Table E1
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD Blower Monitoring Data Summary

Blower ID	Date	Vaccum (in H_2O)	Flow Rate (SCFM)	PID Reading (ppmv)
SSDB-01	8/11/2010	2.17	38.3	1.3
	8/17/2010	2.04	52.1	8.0
	9/17/2010	0.00	92.2	3.9
	11/19/2010	1.49	112.6	1.8
	3/11/2011	1.30	135.0	0.3
	6/24/2011	1.16	135.2	0.1
	7/28/2011	1.12	141.6	0.0
	7/30/2011	1.09	143.4	1.0
	9/20/2011	1.06	148.0	0.0
	12/14/2011	1.09	153.0	1.1
SSDB-02	8/11/2010	2.39	14.6	2.1
	8/17/2010	2.10	44.7	9.8
	11/19/2010	1.94	61.2	4.0
	3/11/2011	1.89	80.0	1.5
	6/24/2011	1.83	79.0	0.4
	7/28/2011	1.80	44.4	0.0
	7/30/2011	1.80	79.1	1.5
	9/20/2011	1.83	79.5	0.0
	12/14/2011	1.43	82.0	1.6
SSDB-03	8/11/2010	1.76	95.4	2.3
	8/17/2010	1.71	98.4	7.5
	11/19/2010	1.79	79.3	3.9
	3/11/2011	1.81	104.0	1.2
	6/24/2011	1.66	110.6	0.0
	7/28/2011	1.60	68.5	0.0
	7/30/2011	1.60	114.8	1.3
	9/20/2011	1.54	122.0	0.0
	12/14/2011	1.56	117.0	1.4
SSDB-04	8/11/2010	0.00	29.4	4.6
	8/17/2010	2.02	58.3	8.5
	11/19/2010	0.03	33.0	3.0
	3/11/2011	0.00	130.0	1.0
	6/24/2011	NA	145.0	0.0
	7/28/2011	1.18	146.1	0.0
	7/30/2011	NM	138.2	1.0
	9/20/2011	1.12	153.0	0.0
	12/14/2011	1.10	154.0	0.4
SSDB-05	8/11/2010	2.15	53.3	11.8
	8/17/2010	2.07	54.5	19.5
	11/19/2010	2.10	59.9	9.5
	3/11/2011	2.20	52.0	7.3
	6/24/2011	2.06	65.6	0.1
	7/28/2011	2.02	75.8	0.0
	7/30/2011	2.02	72.1	2.2
	9/20/2011	1.97	79.0	1.5
	12/14/2011	2.06	77.3	2.5

Table E1
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD Blower Monitoring Data Summary

Blower ID	Date	Vaccum (in H_2O)	Flow Rate (SCFM)	PID Reading (ppmv)
SSDB-06	8/11/2010	1.29	153.7	3.5
	8/17/2010	1.28	34.7	8.5
	11/19/2010	1.31	137.1	3.2
	3/11/2011	1.34	160.0	2.1
	3/17/2011	1.37	160.0	1.5
	3/30/2011	1.34	163.0	1.2
	6/24/2011	1.30	166.0	0.5
	7/28/2011	2.21	170.2	0.0
	7/30/2011	1.29	165.2	1.5
	9/20/2011	1.26	164.0	0.0
	12/14/2011	1.28	163.0	0.5
SSDB-07	8/11/2010	2.26	28.6	4.0
	8/17/2010	2.18	36.2	6.5
	11/19/2010	2.09	27.4	5.6
	3/11/2011	2.21	43.0	6.6
	3/17/2011	2.19	43.0	7.3
	3/30/2011	2.17	41.0	6.0
	6/24/2011	2.09	55.4	2.0
	7/28/2011	2.04	56.2	1.6
	7/30/2011	2.02	54.1	6.0
	9/20/2011	1.97	61.0	8.5
	12/14/2011	2.07	71.0	6.6
SSDB-08	8/11/2010	2.45	10.9	258
	8/17/2010	2.36	11.7	230
	9/17/2010	0.00	10.6	205
	11/19/2010	2.46	10.9	181
	12/10/2010	2.30	10.3	185
	1/27/2011	0.00	8.2	NM
	2/25/2011	2.42	10.3	4.3
	3/3/2011	2.40	10.2	69.5
	3/10/2011	2.18	11.0	80.0
	3/11/2011	2.35	11.6	50.0
	3/17/2011	2.28	6.3	78.2
	3/30/2011	2.30	11.0	37.0
	4/14/2011	2.35	25.1	84.0
	4/28/2011	2.30	11.5	62.7
	5/6/2011	0.76	4.6	31.4
	6/10/2011	0.48	3.3	1.5
	6/17/2011	0.51	3.5	1.3
	6/24/2011	0.39	2.9	1.5
	7/28/2011	3.51	15.2	2.3
	7/30/2011	3.54	14.6	6.8
	9/20/2011	3.71	16.0	4.6
	10/4/2011	3.67	16.0	3.0
	10/11/2011	3.56	15.5	7.0
	10/18/2011	3.45	14.0	8.4
	10/25/2011	3.50	15.0	11.2
	11/1/2011	3.50	14.0	10.0
	11/8/2011	3.49	9.0	10.8
	11/15/2011	3.47	14.0	21.4
	11/22/2011	3.45	15.0	33.0
	11/29/2011	3.40	16.0	47.0
	12/6/2011	3.57	13.0	46.0
	12/14/2011	3.56	13.7	46.8

Table E1
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD Blower Monitoring Data Summary

Blower ID	Date	Vaccum (in H_2O)	Flow Rate (SCFM)	PID Reading (ppmv)
SSDB-09 [a]	12/10/2010	2.60	6.7	10.5
	3/11/2011	2.62	7.0	1.0
	6/24/2011	2.51	7.4	1.8
	7/28/2011	2.51	7.1	9.2
	7/30/2011	2.51	7.4	18.5
	9/20/2011	2.17	7.1	47.8
	12/14/2011	2.64	10.9	38.6
SSDB-10 [b]	12/10/2010	2.40	11.9	43.7
	1/27/2011	2.00	7.2	NM
	3/11/2011	2.48	10.5	273
	6/24/2011	2.43	9.8	55.2
	7/28/2011	2.44	10.2	14.7
	7/30/2011	2.44	9.6	23.4
	9/20/2011	2.46	8.8	16.0
	12/14/2011	2.53	10.4	7.3
SSDB-11 [c]	12/10/2010	2.50	10.0	123
	1/27/2011	2.00	8.3	NM
	3/11/2011	2.43	11.0	115
	6/24/2011	2.34	9.5	113
	7/28/2011	2.34	18.5	187
	7/30/2011	2.34	15.0	181
	9/20/2011	2.33	18.0	277
	12/14/2011	2.42	12.3	143
SSDB-12 [d]	3/15/2011	2.10	64.0	2.5
	3/17/2011	NM	NM	0.0
	6/24/2011	1.94	25.2	0.7
	7/28/2011	1.85	49.1	0.0
	7/30/2011	1.86	84.8	1.5
	9/20/2011	1.79	98.0	0.0
	12/14/2011	1.76	109.0	0.5
SSDB-13 [d]	3/15/2011	0.51	155.0	0.2
	3/17/2011	NM	NM	0.0
	6/24/2011	1.23	160.1	0.5
	7/28/2011	1.19	161.5	0.0
	7/30/2011	1.18	159.5	1.3
	9/20/2011	1.12	155.0	1.0
	12/14/2011	1.13	37.8	0.8
SSDB-14 [d]	3/15/2011	1.49	157.0	0.0
	3/17/2011	NM	NM	1.3
	6/24/2011	1.49	159.0	2.0
	7/28/2011	1.45	159.2	1.0
	7/30/2011	1.44	161.1	5.5
	9/20/2011	1.40	165.0	6.5
	12/14/2011	1.47	162.0	5.6

Table E1
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD Blower Monitoring Data Summary

Blower ID	Date	Vaccum (in H_2O)	Flow Rate (SCFM)	PID Reading (ppmv)
SSDB-15 [d]	3/15/2011	1.54	165.0	0.0
	3/17/2011	NM	NM	0.0
	6/24/2011	1.47	160.0	0.5
	7/28/2011	1.43	167.4	0.0
	7/30/2011	1.44	155.4	1.2
	9/20/2011	1.39	160.0	0.3
	12/14/2011	1.44	165.0	0.9
SSDB-16 [d]	3/15/2011	2.06	20.0	5.5
	3/17/2011	2.37	5.3	0.0
	3/30/2011	2.40	4.0	0.0
	6/24/2011	2.22	14.1	0.0
	7/28/2011	1.86	52.5	0.0
	7/30/2011	1.84	44.2	2.7
	9/20/2011	1.55	76.0	5.5
	12/14/2011	1.39	93.4	2.1
SSDB-17 [d]	3/15/2011	2.01	5.8	17.4
	3/17/2011	NM	NM	15.1
	5/6/2011	0.85	2.4	181
	6/10/2011	0.57	2.2	9.1
	6/17/2011	0.55	1.9	7.0
	6/24/2011	0.44	0.0	9.8
	7/28/2011	3.99	6.2	473
	7/30/2011	4.01	9.3	327
	9/20/2011	3.92	8.0	397
	10/4/2011	3.98	8.0	545
	10/11/2011	3.89	8.6	389
	10/18/2011	3.72	8.5	475
	10/25/2011	3.80	8.0	495
	11/1/2011	3.79	8.0	545
	11/8/2011	3.73	4.3	431
	11/15/2011	3.74	8.3	495
	11/22/2011	3.73	8.0	525
	11/29/2011	3.65	8.0	502
	12/6/2011	3.82	8.0	454
	12/14/2011	3.84	7.7	539
SSDB-18 [e]	3/15/2011	2.71	0.0	880
	3/17/2011	2.77	0.5	25.9
	3/30/2011	2.68	0.3	14.2
	6/24/2011	2.72	12.0	0.2
	7/28/2011	2.16	35.6	0.0
	7/30/2011	2.15	34.9	2.9
	9/20/2011	2.00	57.0	6.9
	12/14/2011	2.01	67.3	8.9

Notes:

[a]Formerly SSDVMP-8 and converted to blower pit in December 2010

[b]Formerly SSDVMP-9 and converted to blower pit in December 2010

[c]Blower pit installed in December 2010

[d]Blower pit installed in March 2011

[e]Formerly SSDVMP-10 and converted to blower pit in March 2010

in H_2O - inches of water

SCFM - cubic feet per minute under standard conditions

ppmv - parts per million by volume

Table E2
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD VMP Monitoring Data Summary

SSD VMP ID	Date	Vaccum (in H_2O)
SSDVMP-01	8/11/2010	0.004
	8/17/2010	0.005
	11/19/2010	0.015
	3/15/2011	0.085
	6/28/2011	0.061
	7/30/2011	0.002
	9/20/2011	0.004
	12/14/2011	0.075
SSDVMP-02	8/11/2010	0.081
	8/17/2010	0.010
	11/19/2010	0.043
	3/15/2011	0.497
	6/28/2011	0.415
	7/30/2011	0.001
	9/20/2011	0.338
	12/14/2011	0.238
SSDVMP-03	8/11/2010	0.009
	8/17/2010	0.005
	11/19/2010	0.041
	3/15/2011	0.213
	6/28/2011	0.235
	7/30/2011	0.001
	9/20/2011	0.175
	12/14/2011	0.290
SSDVMP-04	8/11/2010	0.749 *
	8/17/2010	0.004
	11/19/2010	0.701
	3/15/2011	0.345
	6/28/2011	0.001
	7/30/2011	0.316
	9/20/2011	0.035
	12/14/2011	0.281
SSDVMP-05	8/11/2010	0.108
	8/17/2010	0.117
	11/19/2010	0.085
	3/15/2011	0.179
	6/28/2011	0.091
	7/30/2011	-0.007
	9/20/2011	0.025
	12/14/2011	0.151
SSDVMP-06	8/11/2010	0.000
	8/17/2010	0.006
	11/19/2010	0.016
	3/15/2011	0.066
	6/28/2011	0.057
	7/30/2011	-0.001
	9/20/2011	0.052
	12/14/2011	0.081

Table E2
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD VMP Monitoring Data Summary

SSD VMP ID	Date	Vaccum (in H_2O)
SSDVMP-07	8/11/2010	0.024
	8/17/2010	0.029
	11/19/2010	0.014
	3/15/2011	0.057
	3/17/2011	0.030
	6/28/2011	0.039
	7/30/2011	-0.002
	9/20/2011	0.055
	12/14/2011	0.103
SSDVMP-08[a]	8/11/2010	0.014
	8/17/2010	0.015
	11/19/2010	0.220
SSDVMP-09[a]	8/11/2010	0.019
	8/17/2010	0.014
	11/19/2010	0.028
SSDVMP-10[d]	8/11/2010	0.670
	8/17/2010	1.373
	11/19/2010	1.240
SSDVMP-11[b]	12/10/2010	0.733
	3/15/2011	0.830
	6/24/2011	0.773
	6/28/2011	0.767
	7/30/2011	0.026
	9/20/2011	0.312
	10/4/2011	0.741
	10/11/2011	0.732
	10/18/2011	0.747
	10/25/2011	0.752
	11/1/2011	0.735
	11/8/2011	0.679
	11/15/2011	0.727
	11/22/2011	0.698
	11/29/2011	0.731
	12/6/2011	0.687
	12/14/2011	0.704
SSDVMP-12[b]	12/10/2010	0.152
	3/15/2011	0.286
	6/24/2011	0.131
	6/28/2011	0.184
	7/30/2011	0.000
	9/20/2011	0.227
	10/4/2011	0.249
	10/11/2011	0.247
	10/18/2011	0.249
	10/25/2011	0.255
	11/1/2011	0.247
	11/8/2011	0.235
	11/15/2011	0.242
	11/22/2011	0.243
	11/29/2011	0.252
	12/6/2011	0.224
	12/14/2011	0.267

Table E2
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD VMP Monitoring Data Summary

SSD VMP ID	Date	Vaccum (in H_2O)
SSDVMP-13[b]	12/10/2010	0.355
	3/15/2011	0.433
	6/24/2011	0.307
	6/28/2011	0.310
	7/30/2011	-0.001
	9/20/2011	0.301
	10/4/2011	0.367
	10/11/2011	0.360
	10/18/2011	0.369
	10/25/2011	0.366
	11/1/2011	0.362
	11/8/2011	0.354
	11/15/2011	0.358
	11/22/2011	0.358
	11/29/2011	0.315
	12/6/2011	0.344
	12/14/2011	0.383
SSDVMP-14[c]	3/15/2011	0.100
	6/28/2011	0.047
	7/30/2011	-0.001
	9/20/2011	0.040
	12/14/2011	0.078
SSDVMP-15[c]	3/15/2011	0.154
	6/28/2011	0.194
	7/30/2011	0.001
	9/20/2011	0.149
	12/14/2011	0.170
SSDVMP-16[c]	3/15/2011	0.584
	6/28/2011	0.587
	7/30/2011	0.004
	9/20/2011	0.521
	12/14/2011	NM
SSDVMP-17[c]	3/15/2011	0.023
	3/17/2011	0.002
	6/28/2011	0.011
	7/30/2011	-0.001
	9/20/2011	0.012
	12/14/2011	0.045
SSDVMP-18[c]	3/15/2011	0.000
	3/17/2011	0.000
	6/28/2011	0.000
	7/30/2011	0.000
	9/20/2011	0.000
	12/14/2011	0.027

Table E2
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD VMP Monitoring Data Summary

SSD VMP ID	Date	Vaccum (in H_2O)
SSDVMP-19[c]	3/15/2011	0.326
	6/24/2011	0.253
	6/28/2011	0.250
	7/30/2011	0.001
	9/20/2011	0.226
	10/4/2011	0.271
	10/11/2011	0.237
	10/18/2011	0.272
	10/25/2011	0.275
	11/1/2011	0.266
	11/8/2011	0.254
	11/15/2011	0.260
	11/22/2011	0.261
	11/29/2011	0.214
	12/6/2011	0.245
	12/14/2011	0.287

Notes:

in H2O - inches of water

* indicates detected positive pressure

[a]Converted to blower pit in December 2010

[b]Installed in December 2010

[c]Installed in March 2011

[d]Converted to blower pit in March 2011

Table E3
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Sub-Slab Depressurization System Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1-DCE	1,1-DCA	2-Butanone	4M2P	Acetone	CDS	CFM	CMT	DFM	Benzene	Toluene	EBN	o-Xylene	m,p-Xylene	Freon 113	Freon 11	Hexane	t-1,2-DCE	IPA	MC	Total VOCs
SSD-B1	08/17/10	ORIG	390	21	160	1.9 U	4.8	1.9 U	32	0.56 J	0.84 J	0.73 J	0.66 J	0.54 J	1.7 J	0.43 J	0.42 J	1.4 J	18	11	0.52 J	1.9 U	22	6.7	670
	09/17/10	ORIG	14	0.6 J	1.1 J	1.9 U	1.9 U	1.9 U	2.7 J	9.4 U	1.9 U	3.7 U	1.9 U	0.5 J	0.18 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 J	1.9 U	21
	12/14/11	ORIG	1.7 U	1.7 U	1.7 U	1.7 U	1.2 J	0.95 J	18 J	0.29 J	1.7 U	0.87 J	0.62 J	0.64 J	1.9	1.7 U	0.26 J	0.68 J	1.7 U	1.7 U	8.4 U	1.7 U	20	1.7 U	45
SSD-B2	08/17/10	ORIG	320	13	28	1.9 U	6.6	1.9 U	35	0.9 J	0.28 J	0.47 J	0.68 J	0.52 J	1.1 J	0.26 J	0.23 J	0.79 J	1.9	1.5 J	0.43 J	1.9 U	11	1.4 J	420
	12/14/11	ORIG	6	0.64 J	0.72 J	1.7 U	1.7 U	1.7 U	13 J	8.4 U	0.4 J	1 J	0.53 J	0.39 J	0.95 J	1.7 U	1.7 U	0.49 J	1.4 J	1.7 U	8.4 U	1.7 U	14	1.3 J	41
SSD-B3	08/17/10	ORIG	210	9.7	67	2 U	2.6	2 U	14	9.9 U	0.62 J	0.39 J	0.7 J	0.35 J	0.51 J	0.23 J	0.22 J	0.62 J	13	7.7	9.9 U	2 U	17	0.74 J	350
	12/14/11	ORIG	2.1	1.7 U	1.8	1.7 U	1.7 U	1.7 U	13 J	8.7 U	1.7 U	0.59 J	0.65 J	1.7 U	0.71 J	1.7 U	1.7 U	1.7 U	16	2.4	8.7 U	1.7 U	13	1.7 U	50
SSD-B4	08/17/10	ORIG	300	13	110	2 U	9.9	2 U	40	10 U	0.88 J	0.53 J	0.68 J	0.48 J	0.55 J	0.23 J	0.21 J	0.73 J	7.7	5.9	0.22 J	2 U	9.2 J	2 U	500
	12/14/11	ORIG	0.82 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	14 J	8.4 U	1.7 U	0.9 J	0.66 J	0.34 J	0.75 J	1.7 U	1.7 U	0.41 J	1.7 U	1.7 U	8.4 U	1.7 U	21	1.7 U	39
SSD-B5	08/17/10	ORIG	920	60	780	5.8 U	6.6	4.6 J	43	8.9 J	2.9 J	12 U	1.3 J	1.2 J	3 J	0.59 J	0.54 J	1.6 J	130	74	0.76 J	5.8 U	5.3 J	5.8 U	2000
	12/14/11	ORIG	160	11	36	1.7 U	1.7 U	1.7 U	6.1 J	5 J	2.9	3.4 U	0.6 J	1.7 U	0.3 J	1.7 U	1.7 U	1.7 U	7	3.7	8.4 U	1.7 U	8.4 U	1.7 U	230
SSD-B6	08/17/10	ORIG	190	14	59	2 U	3.5	2 U	16	10 U	0.57 J	0.4 J	0.63 J	0.39 J	0.48 J	0.2 J	0.21 J	0.57 J	6.5	4.1	0.22 J	2 U	6.6 J	2 U	300
	12/14/11	ORIG	1.4 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	13 J	8.4 U	1.7 U	0.65 J	0.61 J	0.38 J	0.81 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.4 U	1.7 U	65	1.7 U	82
SSD-B7	08/17/10	ORIG	120	8.2	10	2 U	5.3	2 U	23	9.9 U	0.77 J	0.65 J	0.65 J	0.36 J	0.63 J	0.31 J	0.27 J	0.94 J	0.41 J	0.58 J	0.38 J	2 U	2.5 J	2 U	170
	12/14/11	ORIG	260	29	90	1.2 J	1.7 U	1.7 U	39 J	8.4 U	14	0.89 J	0.64 J	0.55 J	0.97 J	0.13 J	0.28 J	0.64 J	18	9.8	8.4 U	0.3 J	4.2 J	1.7 U	470
SSD-B8	08/17/10	ORIG	18000	1100	9900	95 U	95 U	95 U	150 J	51 J	30 J	190 U	95 U	9.5 J	18 J	95 U	95 U	95 U	930	580	480 U	95 U	27 J	95 U	31000
	09/17/10	ORIG	19000	960	8200	97 U	97 U	97 U	190 J	63 J	27 J	190 U	97 U	28 J	25 J	97 U	97 U	97 U	830	490	490 U	97 U	51 J	97 U	30000
	12/10/10	ORIG	23000	1400	9300	170 U	170 U	170 U	290 J	140 J	49 J	340 U	170 U	15 J	29 J	170 U	170 U	170 U	680	470	860 U	170 U	860 U	170 U	35000
	06/24/11	ORIG	390	9.3	5.4	1.9 U	13	1.9 U	18	9.4 U	0.85 J	3.7 U	0.64 J	0.77 J	0.74 J	1.9 U	1.9 U	0.66 J	2.8	1.9 U	9.4 U	1.9 U	9.4 U	1.9 U	440
	07/19/11	ORIG	530	18	45	2.5 U	23	2.5 U	77	12 U	3.1	5 U	1.1 J	1.3 J	0.87 J	2.5 U	2.5 U	0.87 J	79	15	12 U	2.5 U	2.7 J	2.5 U	800
	08/18/11	ORIG	400	16	28	1.7 U	2	1.7 U	15	8.4 U	3.6	3.4 U	0.67 J	0.55 J	0.6 J	1.7 U	1.7 U	1.7 U	44	10	8.4 U	1.7 U	1.5 J	1.7 U	520
	09/13/11	ORIG	210	7.9	18	1.8 U	4.8	1.8 U	21	8.9 U	1.8	0.64 J	0.75 J	0.55 J	0.77 J	1.8 U	1.8 U	1.8 U	29	6.7	8.9 U	1.8 U	8.9 U	1.8 U	300
	10/11/11	ORIG	490	21	87	2.5 U	2.5 U	2.5 U	35	12 U	4.6	1.4 J	1.3 J	1.3 J	1.9 J	2.5 U	2.5 U	2.5 U	240	41	0.7 J	2.5 U	4.5 J	2.5 U	930
	11/08/11	ORIG	680	43	220	3.7 U	3.7 U	3.7 U	17 J	18 U	8.8	7.3 U	1.2 J	1.3 J	1.3 J	3.7 U	3.7 U	3.7 U	380	89	18 U	3.7 U	18 U	3.7 U	1400
	12/14/11	ORIG	1800	99	570	2.7 J	8.6 U	3.3 J	19 J	3.1 J	29	17 U	1.4 J	8.6 U	2.4 J	8.6 U	8.6 U	8.6 U	480	140	43 U	2.1 J	43 U	8.6 U	3200
SSD-B9	12/10/10	ORIG	1800	41	6.1 J	10 U	45	10 U	33 J	51 U	3.7 J	21 U	1.2 J	2.2 J	4 J	1.5 J	3.8 J	4.9 J	1.7 J	10 U	51 U	10 U	51 U	10 U	1900
	12/14/11	ORIG	1500	140	440	3.9 J	7.2 U	4.7 J	18 J	4.4 J	20	14 U	7.2 U	1.5 J	3.2 J	0.79 J	2.2 J	4.3 J	61	30	36 U	7.2 U	36 U	7.2 U	2200
SSD-B10	12/10/10	ORIG	15000	690	6100	100 U	54 J	100 U	330 J	520 U	38 J	210 U	7.9 J	19 J	56 J	12 J	36 J	53 J	3300	960	520 U	100 U	520 U	100 U	27000
	12/14/11	ORIG	570	22	130	0.99 J	2.4 U	2.4 U	11 J	12 U	22	1 J	1.7 J	1.2 J	1.2 J	2.4 U	2.4 U	2.4 U	290	48	12 U	2.4 U	12 U	2.4 U	1100
SSD-B11	12/10/10	ORIG	7200	350	370	43 U	43 U	43 U	53 J	210 U	16 J	86 U	43 U	5.4 J	8.6 J	43 U	43 U	12 J	180	30 J	210 U	43 U	210 U	43 U	8200
	12/14/11	ORIG	5800	520	1900	13 J	25 U	25 U	35 J	9.4 J	110	51 U	2.3 J	25 U	5.8 J	25 U	25 U	25 U	1300	360	130 U	8.7 J	130 U	25 U	10000
SSD-B12	03/22/11	ORIG	800	41	150	3.5 U	4.9	3.5 U	19	1.7 J	1.8 J	1 J	1.2 J	0.83 J	2.6 J	0.67 J	0.81 J	2.3 J	120	20	17 U	3.5 U	3.4 J	2.2 J	1200

Table E3
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Sub-Slab Depressurization System Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1-DCE	1,1-DCA	2-Butanone	4M2P	Acetone	CDS	CFM	CMT	DFM	Benzene	Toluene	EBN	o-Xylene	m,p-Xylene	Freon 113	Freon 11	Hexane	t-1,2-DCE	IPA	MC	Total VOCs
SSD-B12	12/14/11	ORIG	4.9	1.7 U	0.6 J	1.7 U	1.7 U	1.7 U	13 J	0.52 J	0.28 J	1.1 J	0.67 J	0.43 J	0.94 J	1.7 U	1.7 U	0.46 J	1.5 J	1.7 U	8.7 U	1.7 U	13	1.8	39
SSD-B13	03/22/11	ORIG	57	4	11	1.7 U	2.5	1.7 U	11	6.5 J	1.7 U	0.67 J	0.78 J	0.46 J	0.78 J	0.55 J	0.42 J	1.4 J	1.7 U	0.46 J	8.7 U	1.7 U	12	4.2	110
	12/14/11	ORIG	40	1.4 J	1.3 J	1.8 U	1.8 U	1.8 U	21 J	0.36 J	0.46 J	0.99 J	0.63 J	0.38 J	1 J	1.8 U	1.8 U	0.54 J	1.8	1.8 U	9 U	1.8 U	17	2.2	89
SSD-B14	03/22/11	ORIG	130	7.2	160	1.7 U	14	1.7 U	26	8.6 U	0.82 J	0.6 J	0.91 J	0.37 J	0.43 J	0.2 J	0.16 J	0.59 J	83	17	8.6 U	1.7 U	2.9 J	0.31 J	440
	12/14/11	ORIG	310	20	100	1.7 U	1.7 U	1.7 U	9.3 J	8.4 U	1.4 J	3.4 U	0.69 J	1.7 U	0.47 J	1.7 U	1.7 U	1.7 U	60	18	8.4 U	1.7 U	6.3 J	1.7 U	530
SSD-B15	03/22/11	ORIG	170	14	93	1.7 U	2	1.7 U	10	0.4 J	0.6 J	0.7 J	0.93 J	0.55 J	1.4 J	1.1 J	4.7	12	37	8.9	8.6 U	1.7 U	4.3 J	1.2 J	360
	12/14/11	ORIG	28	1.1 J	20	1.8 U	1.8 U	1.8 U	11 J	9 U	1.8 U	3.6 U	0.86 J	1.8 U	0.65 J	1.8 U	1.8 U	1.8 U	95	14	9 U	1.8 U	9	0.88 J	180
SSD-B16	03/22/11	ORIG	5.4	0.27 J	3.6	1.7 U	19	1.7 U	21	8.4 U	1.7 U	0.56 J	0.85 J	0.6 J	0.24 J	1.7 U	1.7 U	1.7 U	5.4	1.7	8.4 U	1.7 U	1.1 J	1.7 U	62
	12/14/11	ORIG	150	11	12	1.7 U	1.7 U	1.7 U	7.7 J	0.27 J	3.3	3.4 U	0.59 J	1.7 U	0.39 J	1.7 U	1.7 U	1.7 U	1.8	1.1 J	8.6 U	1.7 U	5.9 J	1.7 U	190
SSD-B17	03/22/11	ORIG	140000	10000	52000	570 U	570 U	570 U	420 J	2900 U	470 J	1100 U	570 U	86 J	49 J	570 U	570 U	570 U	8100	3300	2900 U	86 J	2900 U	570 U	210000
	06/24/11	ORIG	1400	84	22	4.1 J	14	7.5 U	44	37 U	36	15 U	1.6 J	4.2 J	3.9 J	7.5 U	7.5 U	2.7 J	5.3 J	7.5 U	37 U	7.5 U	8.7 J	7.5 U	1600
	07/19/11	ORIG	23000	2300	5200	99 J	120 U	120 U	410 J	610 U	760	240 U	120 U	66 J	74 J	17 J	26 J	50 J	3500	780	610 U	46 J	610 U	120 U	36000
	08/18/11	ORIG	23000	2200	7000	84 J	100 U	160	520	79 J	860	200 U	100 U	22 J	20 J	100 U	100 U	100 U	6400	1600	510 U	38 J	300 J	100 U	42000
	09/13/11	ORIG	14000	1500	6300	66 J	100 U	100 U	360 J	500 U	680	200 U	11 J	30 J	39 J	6.9 J	100 U	100 U	6500	860	500 U	23 J	500 U	100 U	30000
	10/11/11	ORIG	14000	1100	4500	31 J	88 U	67 J	370 J	440 U	430	180 U	88 U	29 J	89	88 U	33 J	40 J	4700	730	440 U	88 U	440 U	88 U	26000
	11/08/11	ORIG	2	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	17	8.7 U	1.7 U	0.85 J	0.79 J	1.2 J	1.9	1.7 U	0.3 J	0.81 J	1.7 U	1.7 U	8.7 U	1.7 U	2.8 J	1.7 U	28
	12/14/11	ORIG	25000	2000	12000	81 J	120 U	120 U	220 J	43 J	980	240 U	20 J	25 J	37 J	120 U	120 U	53 J	13000	3300	590 U	42 J	590 U	120 U	57000
SSD-B18	03/22/11	ORIG	15	6.7 U	1.6 J	6.7 U	1600	6.7 U	93	34 U	6.7 U	13 U	0.89 J	1.3 J	2.5 J	8	4.7 J	25	6.7 U	6.7 U	34 U	6.7 U	11 J	6.7 U	1800
	12/14/11	ORIG	520	32	110	0.63 J	2.4 U	2.4 U	9.6 J	0.61 J	7.2	4.8 U	0.67 J	2.4 U	0.5 J	2.4 U	2.4 U	2.4 U	34	15	12 U	2.4 U	12 U	2.4 U	730
VMP-12	09/28/11	ORIG	1900	19	7.5 J	9 U	9 U	18	22 J	11 J	2.7 J	18 U	9 U	5.1 J	4.3 J	31	42	70	6.5 J	9 U	3.3 J	9 U	45 U	9 U	2100
VMP-16	09/27/11	ORIG	260	19	130	0.3 J	1.7 U	1.7 U	12	8.7 U	1.2 J	0.6 J	1.9	1.4 J	1.8	2.1	1.2 J	5.7	260	28	8.7 U	1.7 U	4.9 J	0.9 J	730

Notes:

Concentrations are reported in parts per billion by volume (ppbv)
Only the most frequently detected compounds are shown.
VOCs analyzed by EPA Method TO-15.

U = Not detected at a concentration greater than the reporting limit shown.
J = Detected at an estimated concentration between the laboratory reporting and method detection limits, or estimated result due to field or laboratory quality control

PCE = Tetrachloroethene; TCE = Trichloroethene; DCE = Dichloroethene; DCA = Dichloroethane; 4M2P = 4-methyl-2-pentanone; CDS = Carbon Disulfide; CFM = Chloroform, CMT = Chloromethane; DFM = Dichlorodifluoromethane; EBN = Ethylbenzene; MC = Methylene chloride; Freon 11 = Trichlorofluoromethane; Freon 113 = 1,1,2-Trihloro-1,2,2-trifluoroethane; IPA = Isopropyl alcohol.

Sample Type:
ORIG = Original sample

Table E4
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD Vapor Treatment System Monitoring Data Summary

Location	Date	Time	Pressure (in H_2O)	Flow (scfm)	Temp (deg F)	RH (%)	VOC Reading (ppm)
Influent	5/6/2011	1415	1.96	4.9	101	31	95.2
	5/20/2011	0945	NA	3.8	90	46	56
	5/27/2011	1505	1.86	4.8	-	-	32
	6/1/2011	1156	2.24	3.3	87	47	5.3
	6/10/2011	1259	2.17	3.5	75	62	6.3
	6/17/2011	1330	2.20	3.2	96	43	4
	6/24/2011	1100	2.22	3.1	99	46	2.8
	7/5/2011	1405	4.23	3.9	102	33	26
	7/13/2011	1250	4.46	3.4	88	61	3.5
	7/19/2011	1245	0.37	17.0	109	34	157
	7/26/2011	0930	0.47	20.0	90	43	169
	7/28/2011	1924	0.46	19.6	80.2	53	176
	8/2/2011	0957	0.49	20.0	95	44	177
	8/10/2011	1410	0.47	18.6	96	42	158
	8/18/2011	1028	0.49	19.9	94	47	165
	8/24/2011	1000	0.50	20.0	88	53	261
	8/29/2011	1117	0.49	18.0	97	41	267
	9/6/2011	0907	0.49	19.0	87	57	326
	9/13/2011	1140	0.50	17.0	99	34	218
	9/20/2011	1040	0.50	20.0	87	55	249
	9/28/2011	1415	0.50	19.0	88	50	230
	10/4/2011	1301	0.48	19.0	78	51	262
	10/11/2011	1025	0.51	19.0	86	43	286
	10/18/2011	1142	0.79	22.0	85	48	288
	10/25/2011	1053	0.79	23.0	70	66	286
	11/1/2011	1043	0.79	23.0	76	54	275
	11/8/2011	1130	0.83	22.0	77	42	204
	11/15/2011	1133	0.80	21.0	78	47	249
	11/22/2011	1243	0.83	21.0	81	43	285
	11/29/2011	1254	0.81	20.0	86	37	332
	12/6/2011	1045	0.81	23.0	72	36	315
	12/14/2011	1440	0.78	22.2	72	46	338.8

Table E4
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD Vapor Treatment System Monitoring Data Summary

Location	Date	Time	Pressure (in H_2O)	Flow (scfm)	Temp (deg F)	RH (%)	VOC Reading (ppm)
Midpoint	5/6/2011	1420	1.52	5.3	102	31	0
	5/20/2011	1020	NA	7.6	81	47	0
	5/27/2011	1515	2.01	6.1	-	-	0
	6/1/2011	1201	2.00	6.1	85	49	0
	6/10/2011	1303	1.64	5.1	76	60	0
	6/17/2011	1334	2.04	6.3	96	44	0
	6/24/2011	1100	1.96	6.1	97	46	0
	7/5/2011	1408	3.65	9.8	107	33	0
	7/13/2011	1253	3.96	8.0	91	62	0
	7/19/2011	1240	0.17	NA	NA	NA	0.2
	7/26/2011	0935	0.19	21.0	89	43	41.5
	7/28/2011	1926	1.93	21.2	80	52	0
	8/2/2011	1000	0.20	23.0	97	45	1.7
	8/10/2011	1415	0.20	24.5	99	41	5
	8/18/2011	1032	0.20	21.7	92	49	24.5
	8/24/2011	1002	0.20	23.6	90	52	38.5
	8/29/2011	1122	0.19	24.0	99	41	28
	9/6/2011	0910	0.18	24.0	88	57	60
	9/13/2011	1145	0.21	25.0	99	40	45
	9/20/2011	1042	0.20	26.0	88	54	49
	9/28/2011	1420	0.20	24.0	89	50	78
	10/4/2011	1304	0.20	24.0	82	50	36
	10/11/2011	1030	0.20	24.4	87	48	72
	10/18/2011	1147	0.34	26.0	86	48	0
	10/25/2011	1056	0.33	26.0	71	66	0
	11/1/2011	1046	0.33	27.0	77	54	0
	11/8/2011	1140	0.34	28.0	82	34	0.7
	11/15/2011	1135	0.33	28.0	79	47	15.1
	11/22/2011	1246	0.34	27.0	78	46	118
	11/29/2011	1257	0.31	30.0	91	38	58
	12/6/2011	1047	0.32	26.0	71	40	56
	12/14/2011	1445	0.29	26.8	68	49	96.3

Table E4
Omega Chemical Superfund Site
Sub-Slab Depressurization System
SSD Vapor Treatment System Monitoring Data Summary

Location	Date	Time	Pressure (in H_2O)	Flow (scfm)	Temp (deg F)	RH (%)	VOC Reading (ppm)
Effluent	5/6/2011	1425	2.57	-	-	-	0
	5/20/2011	1015	-	2.5	83	46	0
	5/27/2011	1525	2.54	-	-	-	0
	6/1/2011	1206	2.60	0.6	89	49	0
	6/10/2011	1305	2.54	0.1	77	59	0
	6/17/2011	1340	2.53	2.7	94	45	0
	6/24/2011	1100	2.36	2.3	91	46	0
	7/5/2011	1411	4.67	2.6	107	33	0
	7/13/2011	1256	4.30	3.1	90	63	0
	7/19/2011	1230	2.16	18.5	112	30	0
	7/26/2011	0940	3.12	18.0	89	43	35
	7/28/2011	1927	2.48	18.8	78.4	52	0
	8/2/2011	1005	3.21	21.0	100	45	0.3
	8/10/2011	1420	0.01	20.3	100	41	0
	8/18/2011	1036	0.01	21.8	96	50	0.2
	8/24/2011	1005	0.01	21.4	93	50	0.6
	8/29/2011	1127	-0.05	22.0	101	41	0.2
	9/6/2011	0913	0.00	22.0	88	58	0
	9/13/2011	1150	-0.01	20.0	97	39	2.6
	9/20/2011	1042	0.00	22.0	89	54	9
	9/28/2011	1425	-0.04	21.0	93	50	71
	10/4/2011	1307	-0.01	21.0	81	50	45
	10/11/2011	1035	0.00	21.8	89	48	68
	10/18/2011	1152	0.01	23.0	86	47	0
	10/25/2011	1101	-0.01	22.0	71	66	0
	11/1/2011	1048	-0.01	24.0	77	54	0
	11/8/2011	1150	0.00	23.0	83	32	0
	11/15/2011	1137	-0.01	28.0	82	46	0
	11/22/2011	1249	-0.01	23.0	76	48	0
	11/29/2011	1300	0.00	27.0	95	40	0.3
	12/6/2011	1051	0.00	30.0	72	42	0.3
	12/14/2011	1450	0.00	22.1	67	48	6.1

Notes:

Influent: monitoring location is between knockout tank and Primary Carbon vessel

Midpoint: monitoring location is between primary and secondary carbon vessel

Effluent: monitoirng location is at the stack of the secondary carbon vessel

"-" : not measured or not available.

Table E5
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Sub-Slab Depressurization System Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1-DCE	CDS	CFM	Acetone	Benzene	Toluene	t-1,2-DCE	Freon 113	Freon 11	Total VOCs
		Permit Limits	(6,605)	(464)	(2,119)	(5)	(21)	(28)	(4)	(464)	(3)	(351)	(147)	(10,100)
SSD-INF	01/26/11	IN	890	12	10	4.9 J	6.5 U	--	3.7 J	5 J	--	5.9 J	3.1 J	1300
	02/25/11	IN	1800	88	540	60 U	7.8 J	--	4.7 J	69	--	140	33	2700
	03/17/11	IN	69	2.6	5	8.7 U	1.7 U	--	0.78 J	0.62 J	--	1.1 J	0.71 J	95
	04/28/11	IN	9000	480	830	44 J	37 J	--	82	7400	--	200	62 J	22000
	05/20/11	IN	4700	320	190	170 U	58	--	12 J	62	--	9.9 J	35 U	5700
	06/24/11	IN	920	37	11	20 U	12	--	1.9 J	3.3 J	--	4.1	4 U	1100
	07/18/11	IN	13000	1100	2100	370 U	280	--	26 J	18 J	--	1500	330	18000
	08/18/11	IN	27000	2700	8700	670 U	1000	--	32 J	38 J	--	7900	2000	50000
	09/13/11	IN	13000	1000	3400	280 U	360	--	56 U	8.6 J	--	3500	600	22000
	10/11/11	IN	11000	920	3800	260 U	340	--	12 J	22 J	--	4100	640	21000
	11/08/11	IN	13000	940	4700	41 J	380	--	19 J	15 J	--	4600	1100	25000
	12/14/11	IN	12000	740	4000	42 J	320	--	67 U	18 J	--	4000	1000	22000
SSD-INT	05/20/11	INT	2 U	2 U	2 U	10 U	2 U	--	2 U	2 U	--	2 U	2 U	21
	06/24/11	INT	42	1.7 J	2	8.9 U	1.8 U	--	0.65 J	0.78 J	--	1.8 U	1.8 U	84
	07/18/11	INT	2.6	1.8 U	1.8 U	9 U	1.8 U	--	1.8	0.43 J	--	1.8 U	1.8 U	31
	08/18/11	INT	180	37 U	6000	180 U	90	--	11 J	73	--	78	1900	8500
	09/13/11	INT	97	37 U	6100	190 U	570	--	12 J	80	--	5000	1000	13000
	10/11/11	INT	1600	1000	9000	38 J	1600	--	52 U	27 J	--	10000	940	24000
	11/08/11	INT	520	210 U	920	1000 U	40 J	--	210 U	43 J	--	36000	7500	45000
	12/14/11	INT	64 J	40 J	11000	45 J	280	--	35 J	220	--	13000	3000	28000
SSD-EFF	01/26/11	EFF	0.81 J	2.3 U	230	11 U	0.43 J	--	1.1 J	5.6	--	410	360	1200
	02/25/11	EFF	34	0.95 J	5.1	9 U	1.8 U	--	0.76 J	0.4 J	--	1.3 J	0.32 J	47
	03/17/11	EFF	4200	270	540	6.3 J	21	--	4.9 J	13 J	--	100	31	5200

Table E5
Omega Chemical Superfund Site
Volatile Organic Compounds (VOCs) Analytical Summary
Sub-Slab Depressurization System Analytical Results

Sample Location	Sample Date	Sample Type	PCE	TCE	1,1-DCE	CDS	CFM	Acetone	Benzene	Toluene	t-1,2-DCE	Freon 113	Freon 11	Total VOCs
		Permit Limits	(6,605)	(464)	(2,119)	(5)	(21)	(28)	(4)	(464)	(3)	(351)	(147)	(10,100)
SSD-EFF	04/28/11	EFF	3.2	1.9 U	1.9 U	16	1.9 U	--	0.5 J	0.66 J	--	1.9 U	1.9 U	96
	05/20/11	EFF	1.8 U	1.8 U	1.8 U	8.9 U	1.8 U	--	1.8 U	1.8 U	--	1.8 U	1.8 U	4.9
	06/24/11	EFF	220	6.2	1.1 J	9.2 U	0.82 J	--	0.49 J	0.32 J	--	1.8 U	1.8 U	240
	07/18/11	EFF	120	8.1	15	1.8 J	2.3	--	2.1	0.51 J	--	11	2.5	180
	08/18/11	EFF	16	0.61 J	0.59 J	8.4 U	1.7 U	--	1.7 U	1.7 U	--	1.7 U	1.7 U	30
	09/13/11	EFF	41	2.4 J	120	8.6 J	3.9 J	--	1.5 J	6.5	--	2.6 J	800	1000
	10/11/11	EFF	220	61 U	9600	40 J	120	--	150	820	--	15000	1300	28000
	11/08/11	EFF	1.8 U	1.8 U	1.8 U	9 U	1.8 U	--	0.39 J	0.3 J	--	1.8 U	1.8 U	39
	12/14/11	EFF	130	21 J	190	7.4 J	8.8 J	--	44 U	16 J	--	6100	2000	8500

Notes:

Concentrations are reported in parts per billion by volume (ppbv)
Only compounds with permit limits are presented in this table. However, acetone and t-1,2-DCE were inadvertently not analyzed for the influent, intermediate and effluent samples.
VOCs analyzed by EPA Method TO-15.

U = Not detected at a concentration greater than the reporting limit shown.
J = Detected at an estimated concentration between the laboratory reporting and method detection limits, or estimated result due to field or laboratory quality control issues
-- = Constituent not analyzed

PCE = Tetrachloroethene; TCE = Trichloroethene; DCE = Dichloroethene; CDS = Carbon Disulfide; CFM = Chloroform, Freon 11 = Trichlorofluoromethane; Freon 113 = 1,1,2-Trihloro-1,2,2-trifluoroethane.

Sample Type:
IN = Influent Sample
INT = Intermediate Sample
EFF = Effluent Sample

Attachment F: Laboratory Reports and Data Validation Memo

IAQ Laboratory Reports

Air Toxics LTD.
Laboratory Services Since 1989

12/30/2011
Ms. Sharon Wallin
CDM
111 Academy Street
Suite 150
Irvine CA 92617

Project Name: Omega IAQ
Project #: 10500
Workorder #: 1112515

Dear Ms. Sharon Wallin

The following report includes the data for the above referenced project for sample(s) received on 12/23/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1112515

Work Order Summary

CLIENT:	Ms. Sharon Wallin CDM 111 Academy Street Suite 150 Irvine, CA 92617	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 450 Montbrook Lane Knoxville, TN 37919-2705
PHONE:	949-752-5452	**P.O. #**	
FAX:	949-725-3790	**PROJECT #**	10500 Omega IAQ
DATE RECEIVED:	12/23/2011	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	12/30/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAQ-FRR1-122111	Modified TO-15 SIM	6.4 "Hg	5 psi
02A	IAQ-FRR1-122111-K	Modified TO-15 SIM	6.4 "Hg	5 psi
03A	IAQ-FRR2-122111	Modified TO-15 SIM	5.0 "Hg	5 psi
04A	IAQ-FRR3-122111	Modified TO-15 SIM	5.6 "Hg	5 psi
05A	IAQ-AA3A-122111	Modified TO-15 SIM	4.2 "Hg	5 psi
06A	IAQ-AA8-122111	Modified TO-15 SIM	5.4 "Hg	5 psi
06AA	IAQ-AA8-122111 Lab Duplicate	Modified TO-15 SIM	5.4 "Hg	5 psi
07A	IAQ-AA1-122111	Modified TO-15 SIM	5.2 "Hg	5 psi
08A	IAQ-ROP1-122111	Modified TO-15 SIM	6.4 "Hg	5 psi
09A	IAQ-ROP3-122111	Modified TO-15 SIM	6.6 "Hg	5 psi
10A	IAQ-ROP2-122111	Modified TO-15 SIM	6.2 "Hg	5 psi
11A	IAQ-ROP5-122111	Modified TO-15 SIM	7.2 "Hg	5 psi
12A	IAQ-ROP4-122111	Modified TO-15 SIM	7.2 "Hg	5 psi
13A	IAQ-AA16-122111	Modified TO-15 SIM	7.0 "Hg	5 psi
14A	IAQ-AA22-122111	Modified TO-15 SIM	7.4 "Hg	5 psi
15A	IAQ-AA13-122111	Modified TO-15 SIM	6.8 "Hg	5 psi
16A	IAQ-B1-122111	Modified TO-15 SIM	6.4 "Hg	5 psi

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1112515

Work Order Summary

CLIENT:	Ms. Sharon Wallin CDM 111 Academy Street Suite 150 Irvine, CA 92617	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 450 Montbrook Lane Knoxville, TN 37919-2705
PHONE:	949-752-5452	**P.O. #**	
FAX:	949-725-3790	**PROJECT #**	10500 Omega IAQ
DATE RECEIVED:	12/23/2011	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	12/30/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
17A	IAQ-B1-122111-K	Modified TO-15 SIM	6.4 "Hg	5 psi
18A	IAQ-B2-122111	Modified TO-15 SIM	7.0 "Hg	5 psi
19A	IAQ-B3-122111	Modified TO-15 SIM	6.8 "Hg	5 psi
20A	Lab Blank	Modified TO-15 SIM	NA	NA
20B	Lab Blank	Modified TO-15 SIM	NA	NA
20C	Lab Blank	Modified TO-15 SIM	NA	NA
21A	CCV	Modified TO-15 SIM	NA	NA
21B	CCV	Modified TO-15 SIM	NA	NA
21C	CCV	Modified TO-15 SIM	NA	NA
22A	LCS	Modified TO-15 SIM	NA	NA
22AA	LCSD	Modified TO-15 SIM	NA	NA
22B	LCS	Modified TO-15 SIM	NA	NA
22BB	LCSD	Modified TO-15 SIM	NA	NA
22C	LCS	Modified TO-15 SIM	NA	NA
22CC	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: Linda J. Freeman

Laboratory Director

DATE: 12/30/11

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
CDM
Workorder# 1112515

Nineteen 6 Liter Summa Canister (SIM Certified) samples were received on December 23, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-FRR1-122111

Lab ID#: 1112515-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.53	0.17	2.6
Freon 11	0.034	0.60	0.19	3.4
1,1-Dichloroethene	0.017	4.1	0.067	16
Freon 113	0.034	0.85	0.26	6.5
Chloroform	0.034	0.092	0.17	0.45
Carbon Tetrachloride	0.034	0.13	0.21	0.80
Benzene	0.085	0.95	0.27	3.0
1,2-Dichloroethane	0.034	0.095	0.14	0.38
Trichloroethene	0.034	0.49	0.18	2.6
Toluene	0.034	2.6	0.13	9.6
Tetrachloroethene	0.034	5.1	0.23	35
Ethyl Benzene	0.034	0.35	0.15	1.5
m,p-Xylene	0.068	1.2	0.30	5.4
o-Xylene	0.034	0.43	0.15	1.8
1,4-Dichlorobenzene	0.034	0.92	0.20	5.5
Acetone	0.85	12	2.0	27

Client Sample ID: IAQ-FRR1-122111-K

Lab ID#: 1112515-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.57	0.17	2.8
Freon 11	0.034	0.64	0.19	3.6
1,1-Dichloroethene	0.017	4.4	0.067	18
Freon 113	0.034	0.90	0.26	6.9
Chloroform	0.034	0.097	0.17	0.48
Carbon Tetrachloride	0.034	0.14	0.21	0.87
Benzene	0.085	1.0	0.27	3.3
1,2-Dichloroethane	0.034	0.10	0.14	0.42
Trichloroethene	0.034	0.52	0.18	2.8
Toluene	0.034	2.7	0.13	10

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-FRR1-122111-K

Lab ID#: 1112515-02A

Tetrachloroethene	0.034	5.2	0.23	35
Ethyl Benzene	0.034	0.35	0.15	1.5
m,p-Xylene	0.068	1.2	0.30	5.1
o-Xylene	0.034	0.38	0.15	1.7
1,4-Dichlorobenzene	0.034	0.46	0.20	2.7
Acetone	0.85	13	2.0	32

Client Sample ID: IAQ-FRR2-122111

Lab ID#: 1112515-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.55	0.16	2.7
Freon 11	0.032	0.45	0.18	2.5
1,1-Dichloroethene	0.016	2.6	0.064	10
Freon 113	0.032	0.49	0.25	3.7
Chloroform	0.032	0.079	0.16	0.39
Carbon Tetrachloride	0.032	0.12	0.20	0.72
Benzene	0.080	0.79	0.26	2.5
1,2-Dichloroethane	0.032	0.075	0.13	0.30
Trichloroethene	0.032	0.38	0.17	2.0
Toluene	0.032	0.96	0.12	3.6
Tetrachloroethene	0.032	2.6	0.22	17
Acetone	0.80	16	1.9	37
Methylene Chloride	0.32	0.42	1.1	1.4

Client Sample ID: IAQ-FRR3-122111

Lab ID#: 1112515-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.56	0.16	2.8
Freon 11	0.033	0.35	0.18	2.0
1,1-Dichloroethene	0.016	0.97	0.065	3.8
Freon 113	0.033	0.29	0.25	2.2

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-FRR3-122111

Lab ID#: 1112515-04A

Chloroform	0.033	0.061	0.16	0.30
Carbon Tetrachloride	0.033	0.12	0.21	0.78
Benzene	0.082	1.1	0.26	3.6
1,2-Dichloroethane	0.033	0.053	0.13	0.22
Trichloroethene	0.033	0.21	0.18	1.1
Toluene	0.033	3.4	0.12	13
Tetrachloroethene	0.033	1.7	0.22	11
Ethyl Benzene	0.033	0.42	0.14	1.8
m,p-Xylene	0.066	1.4	0.29	6.2
o-Xylene	0.033	0.49	0.14	2.1
1,4-Dichlorobenzene	0.033	0.83	0.20	5.0
Acetone	0.82	13	2.0	30

Client Sample ID: IAQ-AA3A-122111

Lab ID#: 1112515-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.55	0.15	2.7
Freon 11	0.031	0.24	0.18	1.3
1,1-Dichloroethene	0.016	0.016	0.062	0.062
Freon 113	0.031	0.10	0.24	0.78
Chloroform	0.031	0.039	0.15	0.19
Carbon Tetrachloride	0.031	0.13	0.20	0.85
Benzene	0.078	0.80	0.25	2.6
1,2-Dichloroethane	0.031	0.057	0.13	0.23
Toluene	0.031	2.0	0.12	7.6
Tetrachloroethene	0.031	0.073	0.21	0.50
Ethyl Benzene	0.031	0.28	0.14	1.2
m,p-Xylene	0.062	1.0	0.27	4.3
o-Xylene	0.031	0.35	0.14	1.5
1,4-Dichlorobenzene	0.031	0.031	0.19	0.19
Acetone	0.78	9.8	1.8	23

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-AA8-122111

Lab ID#: 1112515-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.55	0.16	2.7
Freon 11	0.033	0.24	0.18	1.4
1,1-Dichloroethene	0.016	0.018	0.065	0.070
Freon 113	0.033	0.086	0.25	0.66
Chloroform	0.033	0.089	0.16	0.43
Carbon Tetrachloride	0.033	0.13	0.20	0.84
Benzene	0.082	0.87	0.26	2.8
1,2-Dichloroethane	0.033	0.052	0.13	0.21
Toluene	0.033	2.1	0.12	8.0
Tetrachloroethene	0.033	0.10	0.22	0.71
Ethyl Benzene	0.033	0.29	0.14	1.3
m,p-Xylene	0.065	1.0	0.28	4.4
o-Xylene	0.033	0.35	0.14	1.5
Acetone	0.82	13	1.9	30

Client Sample ID: IAQ-AA8-122111 Lab Duplicate

Lab ID#: 1112515-06AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.54	0.16	2.7
Freon 11	0.033	0.24	0.18	1.3
1,1-Dichloroethene	0.016	0.017	0.065	0.067
Freon 113	0.033	0.086	0.25	0.66
Chloroform	0.033	0.087	0.16	0.42
Carbon Tetrachloride	0.033	0.11	0.20	0.72
Benzene	0.082	0.85	0.26	2.7
1,2-Dichloroethane	0.033	0.053	0.13	0.22
Toluene	0.033	2.1	0.12	7.8
Tetrachloroethene	0.033	0.10	0.22	0.70
Ethyl Benzene	0.033	0.29	0.14	1.2
m,p-Xylene	0.065	1.0	0.28	4.3

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-AA8-122111 Lab Duplicate

Lab ID#: 1112515-06AA

o-Xylene	0.033	0.34	0.14	1.5
Acetone	0.82	12	1.9	29

Client Sample ID: IAQ-AA1-122111

Lab ID#: 1112515-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.065	0.53	0.32	2.6
Freon 11	0.065	0.25	0.36	1.4
Freon 113	0.065	0.082	0.50	0.63
Carbon Tetrachloride	0.065	0.12	0.41	0.78
Benzene	0.16	1.6	0.52	5.0
1,2-Dichloroethane	0.065	0.12	0.26	0.47
Toluene	0.065	7.8	0.24	29
Tetrachloroethene	0.065	0.064 J	0.44	0.43 J
Ethyl Benzene	0.065	8.4	0.28	36
m,p-Xylene	0.13	36	0.56	160
o-Xylene	0.065	14	0.28	59
Acetone	1.6	170 E	3.8	410 E

Client Sample ID: IAQ-ROP1-122111

Lab ID#: 1112515-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.57	0.17	2.8
Freon 11	0.034	0.24	0.19	1.4
1,1-Dichloroethene	0.017	0.040	0.067	0.16
Freon 113	0.034	0.10	0.26	0.78
Chloroform	0.034	0.043	0.17	0.21
Carbon Tetrachloride	0.034	0.14	0.21	0.88
Benzene	0.085	0.90	0.27	2.9
1,2-Dichloroethane	0.034	0.056	0.14	0.23
Toluene	0.034	2.6	0.13	9.9

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-ROP1-122111

Lab ID#: 1112515-08A

Tetrachloroethene	0.034	0.19	0.23	1.3
Ethyl Benzene	0.034	0.33	0.15	1.4
m,p-Xylene	0.068	1.1	0.30	4.9
o-Xylene	0.034	0.40	0.15	1.7
Acetone	0.85	42 E	2.0	99 E
Methylene Chloride	0.34	2.2	1.2	7.7

Client Sample ID: IAQ-ROP3-122111

Lab ID#: 1112515-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.58	0.17	2.9
Freon 11	0.034	0.26	0.19	1.4
1,1-Dichloroethene	0.017	0.040	0.068	0.16
Freon 113	0.034	0.099	0.26	0.76
Chloroform	0.034	0.044	0.17	0.21
Carbon Tetrachloride	0.034	0.12	0.22	0.76
Benzene	0.086	0.85	0.27	2.7
1,2-Dichloroethane	0.034	0.058	0.14	0.24
Toluene	0.034	2.3	0.13	8.7
Tetrachloroethene	0.034	0.19	0.23	1.3
Ethyl Benzene	0.034	0.30	0.15	1.3
m,p-Xylene	0.069	1.0	0.30	4.4
o-Xylene	0.034	0.35	0.15	1.5
Acetone	0.86	33	2.0	77
Methylene Chloride	0.34	0.75	1.2	2.6

Client Sample ID: IAQ-ROP2-122111

Lab ID#: 1112515-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.56	0.17	2.7
Freon 11	0.034	0.24	0.19	1.4

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-ROP2-122111

Lab ID#: 1112515-10A

1,1-Dichloroethene	0.017	0.027	0.067	0.11
Freon 113	0.034	0.090	0.26	0.69
Chloroform	0.034	0.037	0.16	0.18
Carbon Tetrachloride	0.034	0.12	0.21	0.75
Benzene	0.084	0.81	0.27	2.6
1,2-Dichloroethane	0.034	0.053	0.14	0.22
Toluene	0.034	2.0	0.13	7.6
Tetrachloroethene	0.034	0.14	0.23	0.98
Ethyl Benzene	0.034	0.28	0.15	1.2
m,p-Xylene	0.068	0.96	0.29	4.2
o-Xylene	0.034	0.34	0.15	1.4
Acetone	0.84	8.2	2.0	20

Client Sample ID: IAQ-ROP5-122111

Lab ID#: 1112515-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.58	0.17	2.8
Freon 11	0.035	0.25	0.20	1.4
1,1-Dichloroethene	0.018	0.038	0.070	0.15
Freon 113	0.035	0.096	0.27	0.74
Chloroform	0.035	0.075	0.17	0.36
Carbon Tetrachloride	0.035	0.15	0.22	0.92
Benzene	0.088	0.95	0.28	3.0
1,2-Dichloroethane	0.035	0.057	0.14	0.23
Toluene	0.035	2.3	0.13	8.7
Tetrachloroethene	0.035	0.20	0.24	1.3
Ethyl Benzene	0.035	0.31	0.15	1.4
m,p-Xylene	0.070	1.0	0.30	4.6
o-Xylene	0.035	0.38	0.15	1.6
Acetone	0.88	10	2.1	24

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-ROP4-122111

Lab ID#: 1112515-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.52	0.17	2.6
Freon 11	0.035	0.22	0.20	1.3
1,1-Dichloroethene	0.018	0.025	0.070	0.10
Freon 113	0.035	0.082	0.27	0.62
Chloroform	0.035	0.046	0.17	0.22
Carbon Tetrachloride	0.035	0.11	0.22	0.69
Benzene	0.088	0.82	0.28	2.6
1,2-Dichloroethane	0.035	0.046	0.14	0.19
Toluene	0.035	2.0	0.13	7.7
Tetrachloroethene	0.035	0.15	0.24	1.0
Ethyl Benzene	0.035	0.28	0.15	1.2
m,p-Xylene	0.070	0.93	0.30	4.0
o-Xylene	0.035	0.33	0.15	1.4
Acetone	0.88	7.6	2.1	18

Client Sample ID: IAQ-AA16-122111

Lab ID#: 1112515-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.54	0.17	2.7
Freon 11	0.035	0.23	0.20	1.3
1,1-Dichloroethene	0.018	0.027	0.069	0.10
Freon 113	0.035	0.084	0.27	0.64
Carbon Tetrachloride	0.035	0.12	0.22	0.73
Benzene	0.088	0.81	0.28	2.6
1,2-Dichloroethane	0.035	0.058	0.14	0.23
Toluene	0.035	2.0	0.13	7.6
Tetrachloroethene	0.035	0.16	0.24	1.1
Ethyl Benzene	0.035	0.27	0.15	1.2
m,p-Xylene	0.070	0.91	0.30	3.9
o-Xylene	0.035	0.32	0.15	1.4

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-AA16-122111

Lab ID#: 1112515-13A

Acetone	0.88	6.9	2.1	16

Client Sample ID: IAQ-AA22-122111

Lab ID#: 1112515-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.036	0.53	0.18	2.6
Freon 11	0.036	0.23	0.20	1.3
1,1-Dichloroethene	0.018	0.031	0.070	0.12
Freon 113	0.036	0.081	0.27	0.62
Carbon Tetrachloride	0.036	0.11	0.22	0.69
Benzene	0.089	0.79	0.28	2.5
1,2-Dichloroethane	0.036	0.059	0.14	0.24
Toluene	0.036	2.0	0.13	7.4
Tetrachloroethene	0.036	0.19	0.24	1.3
Ethyl Benzene	0.036	0.26	0.15	1.1
m,p-Xylene	0.071	0.91	0.31	4.0
o-Xylene	0.036	0.32	0.15	1.4
Acetone	0.89	6.5	2.1	15

Client Sample ID: IAQ-AA13-122111

Lab ID#: 1112515-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.59	0.17	2.9
Freon 11	0.035	0.25	0.19	1.4
1,1-Dichloroethene	0.017	0.026	0.068	0.10
Freon 113	0.035	0.089	0.26	0.68
Chloroform	0.035	0.035	0.17	0.17
Carbon Tetrachloride	0.035	0.14	0.22	0.88
Benzene	0.086	0.77	0.28	2.5
1,2-Dichloroethane	0.035	0.060	0.14	0.24
Toluene	0.035	1.9	0.13	7.0

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-AA13-122111

Lab ID#: 1112515-15A

Tetrachloroethene	0.035	0.13	0.23	0.90
Ethyl Benzene	0.035	0.27	0.15	1.2
m,p-Xylene	0.069	0.86	0.30	3.7
o-Xylene	0.035	0.31	0.15	1.3
Acetone	0.86	7.2	2.0	17

Client Sample ID: IAQ-B1-122111

Lab ID#: 1112515-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.58	0.17	2.8
Freon 11	0.034	0.26	0.19	1.4
Freon 113	0.034	0.11	0.26	0.84
Chloroform	0.034	0.040	0.17	0.20
Carbon Tetrachloride	0.034	0.14	0.21	0.90
Benzene	0.085	0.85	0.27	2.7
1,2-Dichloroethane	0.034	0.058	0.14	0.24
Toluene	0.034	2.0	0.13	7.7
Tetrachloroethene	0.034	0.072	0.23	0.49
Ethyl Benzene	0.034	0.28	0.15	1.2
m,p-Xylene	0.068	0.92	0.30	4.0
o-Xylene	0.034	0.31	0.15	1.4
Acetone	0.85	8.0	2.0	19

Client Sample ID: IAQ-B1-122111-K

Lab ID#: 1112515-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.58	0.17	2.9
Freon 11	0.034	0.25	0.19	1.4
Freon 113	0.034	0.11	0.26	0.83
Chloroform	0.034	0.039	0.17	0.19
Carbon Tetrachloride	0.034	0.13	0.21	0.80

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-B1-122111-K

Lab ID#: 1112515-17A

Benzene	0.085	0.85	0.27	2.7
1,2-Dichloroethane	0.034	0.060	0.14	0.24
Toluene	0.034	2.1	0.13	7.9
Tetrachloroethene	0.034	0.070	0.23	0.47
Ethyl Benzene	0.034	0.28	0.15	1.2
m,p-Xylene	0.068	0.96	0.30	4.2
o-Xylene	0.034	0.34	0.15	1.4
Acetone	0.85	8.5	2.0	20

Client Sample ID: IAQ-B2-122111

Lab ID#: 1112515-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.58	0.17	2.9
Freon 11	0.035	0.24	0.20	1.4
Freon 113	0.035	0.13	0.27	0.98
Chloroform	0.035	0.043	0.17	0.21
Carbon Tetrachloride	0.035	0.099	0.22	0.62
Benzene	0.088	0.87	0.28	2.8
1,2-Dichloroethane	0.035	0.066	0.14	0.27
Toluene	0.035	2.2	0.13	8.4
Tetrachloroethene	0.035	0.096	0.24	0.65
Ethyl Benzene	0.035	0.34	0.15	1.5
m,p-Xylene	0.070	1.1	0.30	4.8
o-Xylene	0.035	0.35	0.15	1.5
Acetone	0.88	16	2.1	37

Client Sample ID: IAQ-B3-122111

Lab ID#: 1112515-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.57	0.17	2.8
Freon 11	0.035	0.25	0.19	1.4

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-B3-122111

Lab ID#: 1112515-19A

Freon 113	0.035	0.092	0.26	0.70
Chloroform	0.035	0.034 J	0.17	0.16 J
Carbon Tetrachloride	0.035	0.12	0.22	0.76
Benzene	0.086	0.82	0.28	2.6
1,2-Dichloroethane	0.035	0.065	0.14	0.26
Trichloroethene	0.035	0.035	0.18	0.19
Toluene	0.035	2.0	0.13	7.6
Tetrachloroethene	0.035	0.067	0.23	0.45
Ethyl Benzene	0.035	0.26	0.15	1.1
m,p-Xylene	0.069	0.83	0.30	3.6
o-Xylene	0.035	0.29	0.15	1.2
Acetone	0.86	8.4	2.0	20

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-FRR1-122111

Lab ID#: 1112515-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122715**	**Date of Collection:**	**12/21/11 6:29:00 AM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**12/27/11 08:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.53	0.17	2.6
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.60	0.19	3.4
1,1-Dichloroethene	0.017	4.1	0.067	16
Freon 113	0.034	0.85	0.26	6.5
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.092	0.17	0.45
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.13	0.21	0.80
Benzene	0.085	0.95	0.27	3.0
1,2-Dichloroethane	0.034	0.095	0.14	0.38
Trichloroethene	0.034	0.49	0.18	2.6
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.034	2.6	0.13	9.6
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	5.1	0.23	35
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.35	0.15	1.5
m,p-Xylene	0.068	1.2	0.30	5.4
o-Xylene	0.034	0.43	0.15	1.8
1,4-Dichlorobenzene	0.034	0.92	0.20	5.5
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.85	12	2.0	27
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-FRR1-122111-K

Lab ID#: 1112515-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122716**	**Date of Collection:**	**12/21/11 6:31:00 AM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**12/27/11 08:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.57	0.17	2.8
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.64	0.19	3.6
1,1-Dichloroethene	0.017	4.4	0.067	18
Freon 113	0.034	0.90	0.26	6.9
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.097	0.17	0.48
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.14	0.21	0.87
Benzene	0.085	1.0	0.27	3.3
1,2-Dichloroethane	0.034	0.10	0.14	0.42
Trichloroethene	0.034	0.52	0.18	2.8
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.034	2.7	0.13	10
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	5.2	0.23	35
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.35	0.15	1.5
m,p-Xylene	0.068	1.2	0.30	5.1
o-Xylene	0.034	0.38	0.15	1.7
1,4-Dichlorobenzene	0.034	0.46	0.20	2.7
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.85	13	2.0	32
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-FRR2-122111

Lab ID#: 1112515-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122717**	**Date of Collection:**	**12/21/11 6:34:00 AM**
Dil. Factor:	**1.61**	**Date of Analysis:**	**12/27/11 09:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.55	0.16	2.7
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Freon 11	0.032	0.45	0.18	2.5
1,1-Dichloroethene	0.016	2.6	0.064	10
Freon 113	0.032	0.49	0.25	3.7
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	0.079	0.16	0.39
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.032	0.12	0.20	0.72
Benzene	0.080	0.79	0.26	2.5
1,2-Dichloroethane	0.032	0.075	0.13	0.30
Trichloroethene	0.032	0.38	0.17	2.0
trans-1,3-Dichloropropene	0.032	Not Detected	0.15	Not Detected
Toluene	0.032	0.96	0.12	3.6
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	2.6	0.22	17
Chlorobenzene	0.032	Not Detected	0.15	Not Detected
Ethyl Benzene	0.032	Not Detected	0.14	Not Detected
m,p-Xylene	0.064	Not Detected	0.28	Not Detected
o-Xylene	0.032	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Acetone	0.80	16	1.9	37
Methylene Chloride	0.32	0.42	1.1	1.4
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-FRR3-122111

Lab ID#: 1112515-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122718**	**Date of Collection:**	**12/21/11 6:36:00 AM**
Dil. Factor:	**1.65**	**Date of Analysis:**	**12/27/11 10:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.56	0.16	2.8
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.35	0.18	2.0
1,1-Dichloroethene	0.016	0.97	0.065	3.8
Freon 113	0.033	0.29	0.25	2.2
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.061	0.16	0.30
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.12	0.21	0.78
Benzene	0.082	1.1	0.26	3.6
1,2-Dichloroethane	0.033	0.053	0.13	0.22
Trichloroethene	0.033	0.21	0.18	1.1
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.033	3.4	0.12	13
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	1.7	0.22	11
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.42	0.14	1.8
m,p-Xylene	0.066	1.4	0.29	6.2
o-Xylene	0.033	0.49	0.14	2.1
1,4-Dichlorobenzene	0.033	0.83	0.20	5.0
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	13	2.0	30
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA3A-122111

Lab ID#: 1112515-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122719**	**Date of Collection:**	**12/21/11 6:46:00 AM**
Dil. Factor:	**1.56**	**Date of Analysis:**	**12/27/11 10:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.55	0.15	2.7
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Freon 11	0.031	0.24	0.18	1.3
1,1-Dichloroethene	0.016	0.016	0.062	0.062
Freon 113	0.031	0.10	0.24	0.78
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	0.039	0.15	0.19
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.13	0.20	0.85
Benzene	0.078	0.80	0.25	2.6
1,2-Dichloroethane	0.031	0.057	0.13	0.23
Trichloroethene	0.031	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.031	Not Detected	0.14	Not Detected
Toluene	0.031	2.0	0.12	7.6
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.073	0.21	0.50
Chlorobenzene	0.031	Not Detected	0.14	Not Detected
Ethyl Benzene	0.031	0.28	0.14	1.2
m,p-Xylene	0.062	1.0	0.27	4.3
o-Xylene	0.031	0.35	0.14	1.5
1,4-Dichlorobenzene	0.031	0.031	0.19	0.19
1,2-Dichlorobenzene	0.031	Not Detected	0.19	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Acetone	0.78	9.8	1.8	23
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA8-122111

Lab ID#: 1112515-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122720**	**Date of Collection:**	**12/21/11 6:55:00 AM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**12/27/11 11:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.55	0.16	2.7
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.24	0.18	1.4
1,1-Dichloroethene	0.016	0.018	0.065	0.070
Freon 113	0.033	0.086	0.25	0.66
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.089	0.16	0.43
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.13	0.20	0.84
Benzene	0.082	0.87	0.26	2.8
1,2-Dichloroethane	0.033	0.052	0.13	0.21
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.033	2.1	0.12	8.0
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.10	0.22	0.71
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.29	0.14	1.3
m,p-Xylene	0.065	1.0	0.28	4.4
o-Xylene	0.033	0.35	0.14	1.5
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	13	1.9	30
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA8-122111 Lab Duplicate

Lab ID#: 1112515-06AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122721**	**Date of Collection:**	**12/21/11 6:55:00 AM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**12/27/11 11:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.54	0.16	2.7
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.24	0.18	1.3
1,1-Dichloroethene	0.016	0.017	0.065	0.067
Freon 113	0.033	0.086	0.25	0.66
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.087	0.16	0.42
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.11	0.20	0.72
Benzene	0.082	0.85	0.26	2.7
1,2-Dichloroethane	0.033	0.053	0.13	0.22
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.033	2.1	0.12	7.8
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.10	0.22	0.70
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.29	0.14	1.2
m,p-Xylene	0.065	1.0	0.28	4.3
o-Xylene	0.033	0.34	0.14	1.5
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	12	1.9	29
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA1-122111

Lab ID#: 1112515-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122812**	**Date of Collection:**	**12/21/11 7:05:00 AM**
Dil. Factor:	**3.24**	**Date of Analysis:**	**12/28/11 07:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.065	0.53	0.32	2.6
Vinyl Chloride	0.032	Not Detected	0.083	Not Detected
Freon 11	0.065	0.25	0.36	1.4
1,1-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Freon 113	0.065	0.082	0.50	0.63
1,1-Dichloroethane	0.065	Not Detected	0.26	Not Detected
cis-1,2-Dichloroethene	0.065	Not Detected	0.26	Not Detected
Chloroform	0.065	Not Detected	0.32	Not Detected
1,1,1-Trichloroethane	0.065	Not Detected	0.35	Not Detected
Carbon Tetrachloride	0.065	0.12	0.41	0.78
Benzene	0.16	1.6	0.52	5.0
1,2-Dichloroethane	0.065	0.12	0.26	0.47
Trichloroethene	0.065	Not Detected	0.35	Not Detected
trans-1,3-Dichloropropene	0.065	Not Detected	0.29	Not Detected
Toluene	0.065	7.8	0.24	29
1,1,2-Trichloroethane	0.065	Not Detected	0.35	Not Detected
Tetrachloroethene	0.065	0.064 J	0.44	0.43 J
Chlorobenzene	0.065	Not Detected	0.30	Not Detected
Ethyl Benzene	0.065	8.4	0.28	36
m,p-Xylene	0.13	36	0.56	160
o-Xylene	0.065	14	0.28	59
1,4-Dichlorobenzene	0.065	Not Detected	0.39	Not Detected
1,2-Dichlorobenzene	0.065	Not Detected	0.39	Not Detected
trans-1,2-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Acetone	1.6	170 E	3.8	410 E
Methylene Chloride	0.65	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.32	Not Detected	1.2	Not Detected
1,1,2,2-Tetrachloroethane	0.065	Not Detected	0.44	Not Detected

J = Estimated value.
E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-ROP1-122111

Lab ID#: 1112515-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122813**	**Date of Collection:**	**12/21/11 7:10:00 AM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**12/28/11 07:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.57	0.17	2.8
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.24	0.19	1.4
1,1-Dichloroethene	0.017	0.040	0.067	0.16
Freon 113	0.034	0.10	0.26	0.78
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.043	0.17	0.21
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.14	0.21	0.88
Benzene	0.085	0.90	0.27	2.9
1,2-Dichloroethane	0.034	0.056	0.14	0.23
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.034	2.6	0.13	9.9
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.19	0.23	1.3
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.33	0.15	1.4
m,p-Xylene	0.068	1.1	0.30	4.9
o-Xylene	0.034	0.40	0.15	1.7
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.85	42 E	2.0	99 E
Methylene Chloride	0.34	2.2	1.2	7.7
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-ROP3-122111

Lab ID#: 1112515-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122814**	**Date of Collection:**	**12/21/11 7:14:00 AM**
Dil. Factor:	**1.72**	**Date of Analysis:**	**12/28/11 08:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.58	0.17	2.9
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Freon 11	0.034	0.26	0.19	1.4
1,1-Dichloroethene	0.017	0.040	0.068	0.16
Freon 113	0.034	0.099	0.26	0.76
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.14	Not Detected
Chloroform	0.034	0.044	0.17	0.21
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.034	0.12	0.22	0.76
Benzene	0.086	0.85	0.27	2.7
1,2-Dichloroethane	0.034	0.058	0.14	0.24
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.16	Not Detected
Toluene	0.034	2.3	0.13	8.7
1,1,2-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Tetrachloroethene	0.034	0.19	0.23	1.3
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.30	0.15	1.3
m,p-Xylene	0.069	1.0	0.30	4.4
o-Xylene	0.034	0.35	0.15	1.5
1,4-Dichlorobenzene	0.034	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	33	2.0	77
Methylene Chloride	0.34	0.75	1.2	2.6
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-ROP2-122111

Lab ID#: 1112515-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122815**	**Date of Collection:**	**12/21/11 7:16:00 AM**
Dil. Factor:	**1.69**	**Date of Analysis:**	**12/28/11 09:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.56	0.17	2.7
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.24	0.19	1.4
1,1-Dichloroethene	0.017	0.027	0.067	0.11
Freon 113	0.034	0.090	0.26	0.69
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.037	0.16	0.18
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.12	0.21	0.75
Benzene	0.084	0.81	0.27	2.6
1,2-Dichloroethane	0.034	0.053	0.14	0.22
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.034	2.0	0.13	7.6
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.14	0.23	0.98
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.28	0.15	1.2
m,p-Xylene	0.068	0.96	0.29	4.2
o-Xylene	0.034	0.34	0.15	1.4
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	8.2	2.0	20
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-ROP5-122111

Lab ID#: 1112515-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122816**	**Date of Collection:**	**12/21/11 7:19:00 AM**
Dil. Factor:	**1.76**	**Date of Analysis:**	**12/28/11 09:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.58	0.17	2.8
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.25	0.20	1.4
1,1-Dichloroethene	0.018	0.038	0.070	0.15
Freon 113	0.035	0.096	0.27	0.74
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.075	0.17	0.36
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.15	0.22	0.92
Benzene	0.088	0.95	0.28	3.0
1,2-Dichloroethane	0.035	0.057	0.14	0.23
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	2.3	0.13	8.7
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.20	0.24	1.3
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.31	0.15	1.4
m,p-Xylene	0.070	1.0	0.30	4.6
o-Xylene	0.035	0.38	0.15	1.6
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	10	2.1	24
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-ROP4-122111

Lab ID#: 1112515-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122817**	**Date of Collection:**	**12/21/11 7:20:00 AM**
Dil. Factor:	**1.76**	**Date of Analysis:**	**12/28/11 10:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.52	0.17	2.6
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.22	0.20	1.3
1,1-Dichloroethene	0.018	0.025	0.070	0.10
Freon 113	0.035	0.082	0.27	0.62
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.046	0.17	0.22
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.11	0.22	0.69
Benzene	0.088	0.82	0.28	2.6
1,2-Dichloroethane	0.035	0.046	0.14	0.19
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	2.0	0.13	7.7
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.15	0.24	1.0
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.28	0.15	1.2
m,p-Xylene	0.070	0.93	0.30	4.0
o-Xylene	0.035	0.33	0.15	1.4
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	7.6	2.1	18
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA16-122111

Lab ID#: 1112515-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122818**	**Date of Collection:**	**12/21/11 7:14:00 AM**
Dil. Factor:	**1.75**	**Date of Analysis:**	**12/28/11 10:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.54	0.17	2.7
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.23	0.20	1.3
1,1-Dichloroethene	0.018	0.027	0.069	0.10
Freon 113	0.035	0.084	0.27	0.64
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	Not Detected	0.17	Not Detected
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.12	0.22	0.73
Benzene	0.088	0.81	0.28	2.6
1,2-Dichloroethane	0.035	0.058	0.14	0.23
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	2.0	0.13	7.6
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.16	0.24	1.1
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.27	0.15	1.2
m,p-Xylene	0.070	0.91	0.30	3.9
o-Xylene	0.035	0.32	0.15	1.4
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Acetone	0.88	6.9	2.1	16
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA22-122111

Lab ID#: 1112515-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122819**	**Date of Collection:**	**12/21/11 7:15:00 AM**
Dil. Factor:	**1.78**	**Date of Analysis:**	**12/28/11 11:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.036	0.53	0.18	2.6
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
Freon 11	0.036	0.23	0.20	1.3
1,1-Dichloroethene	0.018	0.031	0.070	0.12
Freon 113	0.036	0.081	0.27	0.62
1,1-Dichloroethane	0.036	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Chloroform	0.036	Not Detected	0.17	Not Detected
1,1,1-Trichloroethane	0.036	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.036	0.11	0.22	0.69
Benzene	0.089	0.79	0.28	2.5
1,2-Dichloroethane	0.036	0.059	0.14	0.24
Trichloroethene	0.036	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.036	Not Detected	0.16	Not Detected
Toluene	0.036	2.0	0.13	7.4
1,1,2-Trichloroethane	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	0.19	0.24	1.3
Chlorobenzene	0.036	Not Detected	0.16	Not Detected
Ethyl Benzene	0.036	0.26	0.15	1.1
m,p-Xylene	0.071	0.91	0.31	4.0
o-Xylene	0.036	0.32	0.15	1.4
1,4-Dichlorobenzene	0.036	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.036	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.89	6.5	2.1	15
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
1,1,2,2-Tetrachloroethane	0.036	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA13-122111

Lab ID#: 1112515-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122820**	**Date of Collection:**	**12/21/11 7:29:00 AM**
Dil. Factor:	**1.73**	**Date of Analysis:**	**12/29/11 07:31 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.59	0.17	2.9
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Freon 11	0.035	0.25	0.19	1.4
1,1-Dichloroethene	0.017	0.026	0.068	0.10
Freon 113	0.035	0.089	0.26	0.68
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.035	0.17	0.17
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.14	0.22	0.88
Benzene	0.086	0.77	0.28	2.5
1,2-Dichloroethane	0.035	0.060	0.14	0.24
Trichloroethene	0.035	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	1.9	0.13	7.0
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.13	0.23	0.90
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.27	0.15	1.2
m,p-Xylene	0.069	0.86	0.30	3.7
o-Xylene	0.035	0.31	0.15	1.3
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	7.2	2.0	17
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-B1-122111

Lab ID#: 1112515-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122821**	**Date of Collection:**	**12/21/11 7:45:00 AM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**12/29/11 08:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.58	0.17	2.8
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.26	0.19	1.4
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.11	0.26	0.84
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.040	0.17	0.20
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.14	0.21	0.90
Benzene	0.085	0.85	0.27	2.7
1,2-Dichloroethane	0.034	0.058	0.14	0.24
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.034	2.0	0.13	7.7
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.072	0.23	0.49
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.28	0.15	1.2
m,p-Xylene	0.068	0.92	0.30	4.0
o-Xylene	0.034	0.31	0.15	1.4
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.85	8.0	2.0	19
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	89	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-B1-122111-K

Lab ID#: 1112515-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122822**	**Date of Collection:**	**12/21/11 7:45:00 AM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**12/29/11 08:58 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.58	0.17	2.9
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.25	0.19	1.4
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.11	0.26	0.83
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.039	0.17	0.19
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.13	0.21	0.80
Benzene	0.085	0.85	0.27	2.7
1,2-Dichloroethane	0.034	0.060	0.14	0.24
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.034	2.1	0.13	7.9
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.070	0.23	0.47
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.28	0.15	1.2
m,p-Xylene	0.068	0.96	0.30	4.2
o-Xylene	0.034	0.34	0.15	1.4
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.85	8.5	2.0	20
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-B2-122111

Lab ID#: 1112515-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122907**	**Date of Collection:**	**12/21/11 7:48:00 AM**
Dil. Factor:	**1.75**	**Date of Analysis:**	**12/29/11 01:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.58	0.17	2.9
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.24	0.20	1.4
1,1-Dichloroethene	0.018	Not Detected	0.069	Not Detected
Freon 113	0.035	0.13	0.27	0.98
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.043	0.17	0.21
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.099	0.22	0.62
Benzene	0.088	0.87	0.28	2.8
1,2-Dichloroethane	0.035	0.066	0.14	0.27
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	2.2	0.13	8.4
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.096	0.24	0.65
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.34	0.15	1.5
m,p-Xylene	0.070	1.1	0.30	4.8
o-Xylene	0.035	0.35	0.15	1.5
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Acetone	0.88	16	2.1	37
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-B3-122111

Lab ID#: 1112515-19A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122908**	**Date of Collection:**	**12/21/11 7:50:00 AM**
Dil. Factor:	**1.73**	**Date of Analysis:**	**12/29/11 02:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.57	0.17	2.8
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Freon 11	0.035	0.25	0.19	1.4
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
Freon 113	0.035	0.092	0.26	0.70
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.034 J	0.17	0.16 J
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.12	0.22	0.76
Benzene	0.086	0.82	0.28	2.6
1,2-Dichloroethane	0.035	0.065	0.14	0.26
Trichloroethene	0.035	0.035	0.18	0.19
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	2.0	0.13	7.6
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.067	0.23	0.45
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.26	0.15	1.1
m,p-Xylene	0.069	0.83	0.30	3.6
o-Xylene	0.035	0.29	0.15	1.2
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	8.4	2.0	20
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1112515-20A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/11 01:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1112515-20B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/11 01:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1112515-20C

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/29/11 12:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1112515-21A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122702**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/11 09:53 AM**

Compound	%Recovery
Freon 12	100
Vinyl Chloride	102
Freon 11	98
1,1-Dichloroethene	101
Freon 113	98
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	98
Chloroform	99
1,1,1-Trichloroethane	98
Carbon Tetrachloride	99
Benzene	100
1,2-Dichloroethane	102
Trichloroethene	88
trans-1,3-Dichloropropene	94
Toluene	90
1,1,2-Trichloroethane	98
Tetrachloroethene	95
Chlorobenzene	92
Ethyl Benzene	91
m,p-Xylene	94
o-Xylene	89
1,4-Dichlorobenzene	78
1,2-Dichlorobenzene	83
trans-1,2-Dichloroethene	101
Acetone	104
Methylene Chloride	98
Methyl tert-butyl ether	94
1,1,2,2-Tetrachloroethane	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1112515-21B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/11 09:54 AM**	

Compound	%Recovery
Freon 12	105
Vinyl Chloride	107
Freon 11	96
1,1-Dichloroethene	102
Freon 113	94
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	97
Chloroform	97
1,1,1-Trichloroethane	97
Carbon Tetrachloride	96
Benzene	102
1,2-Dichloroethane	102
Trichloroethene	87
trans-1,3-Dichloropropene	91
Toluene	93
1,1,2-Trichloroethane	94
Tetrachloroethene	91
Chlorobenzene	91
Ethyl Benzene	90
m,p-Xylene	97
o-Xylene	89
1,4-Dichlorobenzene	77
1,2-Dichlorobenzene	80
trans-1,2-Dichloroethene	98
Acetone	125
Methylene Chloride	102
Methyl tert-butyl ether	93
1,1,2,2-Tetrachloroethane	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1112515-21C

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/29/11 10:02 AM**	

Compound	%Recovery
Freon 12	107
Vinyl Chloride	111
Freon 11	99
1,1-Dichloroethene	106
Freon 113	96
1,1-Dichloroethane	108
cis-1,2-Dichloroethene	98
Chloroform	101
1,1,1-Trichloroethane	99
Carbon Tetrachloride	97
Benzene	106
1,2-Dichloroethane	108
Trichloroethene	88
trans-1,3-Dichloropropene	88
Toluene	94
1,1,2-Trichloroethane	94
Tetrachloroethene	88
Chlorobenzene	90
Ethyl Benzene	88
m,p-Xylene	90
o-Xylene	84
1,4-Dichlorobenzene	76
1,2-Dichlorobenzene	81
trans-1,2-Dichloroethene	101
Acetone	108
Methylene Chloride	103
Methyl tert-butyl ether	96
1,1,2,2-Tetrachloroethane	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1112515-22A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/11 10:53 AM**	

Compound	%Recovery
Freon 12	106
Vinyl Chloride	104
Freon 11	102
1,1-Dichloroethene	103
Freon 113	101
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	98
Chloroform	102
1,1,1-Trichloroethane	101
Carbon Tetrachloride	124
Benzene	94
1,2-Dichloroethane	103
Trichloroethene	91
trans-1,3-Dichloropropene	93
Toluene	88
1,1,2-Trichloroethane	98
Tetrachloroethene	94
Chlorobenzene	96
Ethyl Benzene	93
m,p-Xylene	86
o-Xylene	90
1,4-Dichlorobenzene	87
1,2-Dichlorobenzene	97
trans-1,2-Dichloroethene	112
Acetone	83
Methylene Chloride	96
Methyl tert-butyl ether	84
1,1,2,2-Tetrachloroethane	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1112515-22AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/11 11:30 AM**	

Compound	%Recovery
Freon 12	108
Vinyl Chloride	106
Freon 11	103
1,1-Dichloroethene	104
Freon 113	102
1,1-Dichloroethane	103
cis-1,2-Dichloroethene	100
Chloroform	103
1,1,1-Trichloroethane	102
Carbon Tetrachloride	125
Benzene	96
1,2-Dichloroethane	104
Trichloroethene	92
trans-1,3-Dichloropropene	93
Toluene	89
1,1,2-Trichloroethane	99
Tetrachloroethene	96
Chlorobenzene	98
Ethyl Benzene	94
m,p-Xylene	87
o-Xylene	90
1,4-Dichlorobenzene	88
1,2-Dichlorobenzene	98
trans-1,2-Dichloroethene	114
Acetone	82
Methylene Chloride	97
Methyl tert-butyl ether	85
1,1,2,2-Tetrachloroethane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1112515-22B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/11 10:43 AM**

Compound	%Recovery
Freon 12	113
Vinyl Chloride	112
Freon 11	103
1,1-Dichloroethene	106
Freon 113	96
1,1-Dichloroethane	104
cis-1,2-Dichloroethene	98
Chloroform	102
1,1,1-Trichloroethane	98
Carbon Tetrachloride	113
Benzene	97
1,2-Dichloroethane	106
Trichloroethene	90
trans-1,3-Dichloropropene	88
Toluene	91
1,1,2-Trichloroethane	96
Tetrachloroethene	92
Chlorobenzene	98
Ethyl Benzene	94
m,p-Xylene	89
o-Xylene	90
1,4-Dichlorobenzene	95
1,2-Dichlorobenzene	105
trans-1,2-Dichloroethene	110
Acetone	81
Methylene Chloride	98
Methyl tert-butyl ether	80
1,1,2,2-Tetrachloroethane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1112515-22BB

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/11 11:35 AM**	

Compound	%Recovery
Freon 12	112
Vinyl Chloride	112
Freon 11	107
1,1-Dichloroethene	110
Freon 113	103
1,1-Dichloroethane	109
cis-1,2-Dichloroethene	104
Chloroform	107
1,1,1-Trichloroethane	105
Carbon Tetrachloride	121
Benzene	102
1,2-Dichloroethane	111
Trichloroethene	95
trans-1,3-Dichloropropene	97
Toluene	93
1,1,2-Trichloroethane	102
Tetrachloroethene	97
Chlorobenzene	100
Ethyl Benzene	95
m,p-Xylene	88
o-Xylene	87
1,4-Dichlorobenzene	87
1,2-Dichlorobenzene	96
trans-1,2-Dichloroethene	118
Acetone	88
Methylene Chloride	102
Methyl tert-butyl ether	88
1,1,2,2-Tetrachloroethane	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: LCS

Lab ID#: 1112515-22C

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/29/11 10:39 AM**	

Compound	%Recovery
Freon 12	115
Vinyl Chloride	117
Freon 11	107
1,1-Dichloroethene	111
Freon 113	98
1,1-Dichloroethane	109
cis-1,2-Dichloroethene	99
Chloroform	107
1,1,1-Trichloroethane	102
Carbon Tetrachloride	108
Benzene	102
1,2-Dichloroethane	114
Trichloroethene	92
trans-1,3-Dichloropropene	92
Toluene	94
1,1,2-Trichloroethane	99
Tetrachloroethene	91
Chlorobenzene	97
Ethyl Benzene	92
m,p-Xylene	86
o-Xylene	85
1,4-Dichlorobenzene	89
1,2-Dichlorobenzene	100
trans-1,2-Dichloroethene	113
Acetone	90
Methylene Chloride	101
Methyl tert-butyl ether	84
1,1,2,2-Tetrachloroethane	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1112515-22CC

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/29/11 11:15 AM**	

Compound	%Recovery
Freon 12	108
Vinyl Chloride	108
Freon 11	98
1,1-Dichloroethene	102
Freon 113	90
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	90
Chloroform	98
1,1,1-Trichloroethane	93
Carbon Tetrachloride	97
Benzene	103
1,2-Dichloroethane	115
Trichloroethene	92
trans-1,3-Dichloropropene	90
Toluene	95
1,1,2-Trichloroethane	97
Tetrachloroethene	92
Chlorobenzene	98
Ethyl Benzene	95
m,p-Xylene	90
o-Xylene	94
1,4-Dichlorobenzene	98
1,2-Dichlorobenzene	110
trans-1,2-Dichloroethene	103
Acetone	79
Methylene Chloride	94
Methyl tert-butyl ether	75
1,1,2,2-Tetrachloroethane	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	100	70-130

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12/30/2011
Ms. Sharon Wallin
CDM
111 Academy Street
Suite 150
Irvine CA 92617

Project Name: Omega IAQ
Project #:
Workorder #: 1112517

Dear Ms. Sharon Wallin

The following report includes the data for the above referenced project for sample(s) received on 12/23/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1112517

Work Order Summary

CLIENT:	Ms. Sharon Wallin CDM 111 Academy Street Suite 150 Irvine, CA 92617	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 450 Montbrook Lane Knoxville, TN 37919-2705
PHONE:	949-752-5452	**P.O. #**	10500-81846
FAX:	949-725-3790	**PROJECT #**	Omega IAQ
DATE RECEIVED:	12/23/2011	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	12/30/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAQ-TP1-122111	Modified TO-15 SIM	7.2 "Hg	5 psi
02A	IAQ-TP2-122111	Modified TO-15 SIM	6.2 "Hg	5 psi
03A	IAQ-TP3-122111	Modified TO-15 SIM	6.4 "Hg	5 psi
04A	IAQ-AA37-122111	Modified TO-15 SIM	7.0 "Hg	5 psi
05A	IAQ-AA34-122111	Modified TO-15 SIM	7.0 "Hg	5 psi
06A	IAQ-AA35-122111	Modified TO-15 SIM	6.8 "Hg	5 psi
07A	IAQ-AA35-122111-K	Modified TO-15 SIM	1.0 "Hg	5 psi
08A	IAQ-AA36-122111	Modified TO-15 SIM	3.2 "Hg	5 psi
09A	IAQ-AA11-122111	Modified TO-15 SIM	7.0 "Hg	5 psi
10A	Lab Blank	Modified TO-15 SIM	NA	NA
11A	CCV	Modified TO-15 SIM	NA	NA
12A	LCS	Modified TO-15 SIM	NA	NA
12AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: Linda J. Freeman DATE: 12/30/11

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
CDM
Workorder# 1112517

Eight 6 Liter Summa Canister (SIM Certified) samples were received on December 23, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There was a significant difference (greater than 5.0" Hg) between the measured canister receipt vacuum and that which was reported on the Chain of Custody (COC) OR the canister tag for sample IAQ-AA36-12211. A leak test indicated that the valve was functioning properly.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-TP1-122111

Lab ID#: 1112517-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.53	0.17	2.6
Freon 11	0.035	0.23	0.20	1.3
Freon 113	0.035	0.089	0.27	0.68
Chloroform	0.035	0.038	0.17	0.19
Carbon Tetrachloride	0.035	0.11	0.22	0.72
Benzene	0.088	0.91	0.28	2.9
1,2-Dichloroethane	0.035	0.053	0.14	0.22
Toluene	0.035	3.0	0.13	11
Tetrachloroethene	0.035	0.11	0.24	0.74
Ethyl Benzene	0.035	0.66	0.15	2.9
m,p-Xylene	0.070	2.5	0.30	11
o-Xylene	0.035	0.90	0.15	3.9
Acetone	0.88	12	2.1	29

Client Sample ID: IAQ-TP2-122111

Lab ID#: 1112517-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.53	0.17	2.6
Freon 11	0.034	0.24	0.19	1.3
Freon 113	0.034	0.087	0.26	0.67
Chloroform	0.034	0.034	0.16	0.16
Carbon Tetrachloride	0.034	0.11	0.21	0.71
Benzene	0.084	0.73	0.27	2.3
1,2-Dichloroethane	0.034	0.049	0.14	0.20
Toluene	0.034	2.2	0.13	8.3
Tetrachloroethene	0.034	0.078	0.23	0.53
Ethyl Benzene	0.034	0.41	0.15	1.8
m,p-Xylene	0.068	1.5	0.29	6.4
o-Xylene	0.034	0.53	0.15	2.3
Acetone	0.84	8.2	2.0	19

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-TP3-122111

Lab ID#: 1112517-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.52	0.17	2.6
Freon 11	0.034	0.23	0.19	1.3
Freon 113	0.034	0.080	0.26	0.61
Carbon Tetrachloride	0.034	0.11	0.21	0.71
Benzene	0.085	1.4	0.27	4.4
1,2-Dichloroethane	0.034	0.042	0.14	0.17
Toluene	0.034	6.5	0.13	24
Tetrachloroethene	0.034	0.069	0.23	0.46
Ethyl Benzene	0.034	6.2	0.15	27
m,p-Xylene	0.068	25	0.30	110
o-Xylene	0.034	9.6	0.15	42
Acetone	0.85	120 E	2.0	290 E

Client Sample ID: IAQ-AA37-122111

Lab ID#: 1112517-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.56	0.17	2.7
Freon 11	0.035	0.24	0.20	1.4
Freon 113	0.035	0.078	0.27	0.60
Carbon Tetrachloride	0.035	0.12	0.22	0.78
Benzene	0.088	0.52	0.28	1.7
1,2-Dichloroethane	0.035	0.048	0.14	0.19
Toluene	0.035	1.2	0.13	4.6
Tetrachloroethene	0.035	0.050	0.24	0.34
Ethyl Benzene	0.035	0.19	0.15	0.81
m,p-Xylene	0.070	0.59	0.30	2.6
o-Xylene	0.035	0.21	0.15	0.91
Acetone	0.88	7.4	2.1	18

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-AA34-122111

Lab ID#: 1112517-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.55	0.17	2.7
Freon 11	0.035	0.24	0.20	1.4
Freon 113	0.035	0.074	0.27	0.57
Carbon Tetrachloride	0.035	0.11	0.22	0.72
Benzene	0.088	0.51	0.28	1.6
1,2-Dichloroethane	0.035	0.049	0.14	0.20
Toluene	0.035	1.2	0.13	4.7
Tetrachloroethene	0.035	0.047	0.24	0.32
Ethyl Benzene	0.035	0.21	0.15	0.91
m,p-Xylene	0.070	0.73	0.30	3.2
o-Xylene	0.035	0.27	0.15	1.2
Acetone	0.88	8.2	2.1	20

Client Sample ID: IAQ-AA35-122111

Lab ID#: 1112517-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.55	0.17	2.7
Freon 11	0.035	0.25	0.19	1.4
Freon 113	0.035	0.10	0.26	0.80
Carbon Tetrachloride	0.035	0.14	0.22	0.85
Benzene	0.086	0.47	0.28	1.5
1,2-Dichloroethane	0.035	0.049	0.14	0.20
Toluene	0.035	1.1	0.13	4.2
Tetrachloroethene	0.035	0.053	0.23	0.36
Ethyl Benzene	0.035	0.16	0.15	0.70
m,p-Xylene	0.069	0.51	0.30	2.2
o-Xylene	0.035	0.18	0.15	0.78
Acetone	0.86	6.9	2.0	16

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-AA35-122111-K

Lab ID#: 1112517-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.028	0.53	0.14	2.6
Freon 11	0.028	0.24	0.16	1.3
Freon 113	0.028	0.095	0.21	0.73
Carbon Tetrachloride	0.028	0.12	0.17	0.75
Benzene	0.070	0.40	0.22	1.3
1,2-Dichloroethane	0.028	0.041	0.11	0.17
Toluene	0.028	0.99	0.10	3.7
Tetrachloroethene	0.028	0.045	0.19	0.30
Ethyl Benzene	0.028	0.13	0.12	0.58
m,p-Xylene	0.056	0.44	0.24	1.9
o-Xylene	0.028	0.16	0.12	0.68
Acetone	0.70	6.1	1.6	15

Client Sample ID: IAQ-AA36-122111

Lab ID#: 1112517-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.030	0.55	0.15	2.7
Freon 11	0.030	0.24	0.17	1.4
Freon 113	0.030	0.076	0.23	0.59
Carbon Tetrachloride	0.030	0.12	0.19	0.75
Benzene	0.075	0.44	0.24	1.4
1,2-Dichloroethane	0.030	0.046	0.12	0.19
Toluene	0.030	1.1	0.11	4.0
Tetrachloroethene	0.030	0.044	0.20	0.30
Ethyl Benzene	0.030	0.14	0.13	0.62
m,p-Xylene	0.060	0.46	0.26	2.0
o-Xylene	0.030	0.17	0.13	0.73
Acetone	0.75	5.8	1.8	14

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IAQ-AA11-122111

Lab ID#: 1112517-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.56	0.17	2.8
Freon 11	0.035	0.24	0.20	1.4
Freon 113	0.035	0.093	0.27	0.72
Chloroform	0.035	0.036	0.17	0.17
Carbon Tetrachloride	0.035	0.12	0.22	0.76
Benzene	0.088	0.80	0.28	2.6
1,2-Dichloroethane	0.035	0.054	0.14	0.22
Toluene	0.035	1.9	0.13	7.3
Tetrachloroethene	0.035	0.098	0.24	0.67
Ethyl Benzene	0.035	0.26	0.15	1.1
m,p-Xylene	0.070	0.87	0.30	3.8
o-Xylene	0.035	0.30	0.15	1.3
Acetone	0.88	7.4	2.1	18

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-TP1-122111

Lab ID#: 1112517-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122707**	**Date of Collection:**	**12/21/11 7:59:00 AM**
Dil. Factor:	**1.76**	**Date of Analysis:**	**12/27/11 01:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.53	0.17	2.6
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.23	0.20	1.3
1,1-Dichloroethene	0.018	Not Detected	0.070	Not Detected
Freon 113	0.035	0.089	0.27	0.68
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.038	0.17	0.19
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.11	0.22	0.72
Benzene	0.088	0.91	0.28	2.9
1,2-Dichloroethane	0.035	0.053	0.14	0.22
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	3.0	0.13	11
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.11	0.24	0.74
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.66	0.15	2.9
m,p-Xylene	0.070	2.5	0.30	11
o-Xylene	0.035	0.90	0.15	3.9
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	12	2.1	29
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-TP2-122111

Lab ID#: 1112517-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122708**	**Date of Collection:**	**12/21/11 8:02:00 AM**
Dil. Factor:	**1.69**	**Date of Analysis:**	**12/27/11 02:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.53	0.17	2.6
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.24	0.19	1.3
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.087	0.26	0.67
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.034	0.16	0.16
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.11	0.21	0.71
Benzene	0.084	0.73	0.27	2.3
1,2-Dichloroethane	0.034	0.049	0.14	0.20
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.034	2.2	0.13	8.3
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.078	0.23	0.53
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.41	0.15	1.8
m,p-Xylene	0.068	1.5	0.29	6.4
o-Xylene	0.034	0.53	0.15	2.3
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	8.2	2.0	19
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-TP3-122111

Lab ID#: 1112517-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122709**	**Date of Collection:**	**12/21/11 8:04:00 AM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**12/27/11 03:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.52	0.17	2.6
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.23	0.19	1.3
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.080	0.26	0.61
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	Not Detected	0.17	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.11	0.21	0.71
Benzene	0.085	1.4	0.27	4.4
1,2-Dichloroethane	0.034	0.042	0.14	0.17
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.034	6.5	0.13	24
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.069	0.23	0.46
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	6.2	0.15	27
m,p-Xylene	0.068	25	0.30	110
o-Xylene	0.034	9.6	0.15	42
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.85	120 E	2.0	290 E
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA37-122111

Lab ID#: 1112517-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122710**	**Date of Collection:**	**12/21/11 8:16:00 AM**
Dil. Factor:	**1.75**	**Date of Analysis:**	**12/27/11 04:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.56	0.17	2.7
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.24	0.20	1.4
1,1-Dichloroethene	0.018	Not Detected	0.069	Not Detected
Freon 113	0.035	0.078	0.27	0.60
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	Not Detected	0.17	Not Detected
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.12	0.22	0.78
Benzene	0.088	0.52	0.28	1.7
1,2-Dichloroethane	0.035	0.048	0.14	0.19
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	1.2	0.13	4.6
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.050	0.24	0.34
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.19	0.15	0.81
m,p-Xylene	0.070	0.59	0.30	2.6
o-Xylene	0.035	0.21	0.15	0.91
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Acetone	0.88	7.4	2.1	18
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA34-122111

Lab ID#: 1112517-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122711**	**Date of Collection:**	**12/21/11 8:21:00 AM**
Dil. Factor:	**1.75**	**Date of Analysis:**	**12/27/11 04:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.55	0.17	2.7
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.24	0.20	1.4
1,1-Dichloroethene	0.018	Not Detected	0.069	Not Detected
Freon 113	0.035	0.074	0.27	0.57
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	Not Detected	0.17	Not Detected
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.11	0.22	0.72
Benzene	0.088	0.51	0.28	1.6
1,2-Dichloroethane	0.035	0.049	0.14	0.20
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	1.2	0.13	4.7
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.047	0.24	0.32
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.21	0.15	0.91
m,p-Xylene	0.070	0.73	0.30	3.2
o-Xylene	0.035	0.27	0.15	1.2
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Acetone	0.88	8.2	2.1	20
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA35-122111

Lab ID#: 1112517-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122712**	**Date of Collection:**	**12/21/11 8:25:00 AM**
Dil. Factor:	**1.73**	**Date of Analysis:**	**12/27/11 05:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.55	0.17	2.7
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Freon 11	0.035	0.25	0.19	1.4
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
Freon 113	0.035	0.10	0.26	0.80
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	Not Detected	0.17	Not Detected
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.14	0.22	0.85
Benzene	0.086	0.47	0.28	1.5
1,2-Dichloroethane	0.035	0.049	0.14	0.20
Trichloroethene	0.035	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	1.1	0.13	4.2
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.053	0.23	0.36
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.16	0.15	0.70
m,p-Xylene	0.069	0.51	0.30	2.2
o-Xylene	0.035	0.18	0.15	0.78
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	6.9	2.0	16
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA35-122111-K

Lab ID#: 1112517-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122713**	**Date of Collection:**	**12/21/11 8:25:00 AM**
Dil. Factor:	**1.39**	**Date of Analysis:**	**12/27/11 06:22 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.028	0.53	0.14	2.6
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected
Freon 11	0.028	0.24	0.16	1.3
1,1-Dichloroethene	0.014	Not Detected	0.055	Not Detected
Freon 113	0.028	0.095	0.21	0.73
1,1-Dichloroethane	0.028	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.028	Not Detected	0.11	Not Detected
Chloroform	0.028	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.028	0.12	0.17	0.75
Benzene	0.070	0.40	0.22	1.3
1,2-Dichloroethane	0.028	0.041	0.11	0.17
Trichloroethene	0.028	Not Detected	0.15	Not Detected
trans-1,3-Dichloropropene	0.028	Not Detected	0.13	Not Detected
Toluene	0.028	0.99	0.10	3.7
1,1,2-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Tetrachloroethene	0.028	0.045	0.19	0.30
Chlorobenzene	0.028	Not Detected	0.13	Not Detected
Ethyl Benzene	0.028	0.13	0.12	0.58
m,p-Xylene	0.056	0.44	0.24	1.9
o-Xylene	0.028	0.16	0.12	0.68
1,4-Dichlorobenzene	0.028	Not Detected	0.17	Not Detected
1,2-Dichlorobenzene	0.028	Not Detected	0.17	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Acetone	0.70	6.1	1.6	15
Methylene Chloride	0.28	Not Detected	0.96	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
1,1,2,2-Tetrachloroethane	0.028	Not Detected	0.19	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA36-122111

Lab ID#: 1112517-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122714**	**Date of Collection:**	**12/21/11 8:30:00 AM**
Dil. Factor:	**1.50**	**Date of Analysis:**	**12/27/11 07:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.030	0.55	0.15	2.7
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
Freon 11	0.030	0.24	0.17	1.4
1,1-Dichloroethene	0.015	Not Detected	0.059	Not Detected
Freon 113	0.030	0.076	0.23	0.59
1,1-Dichloroethane	0.030	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
Chloroform	0.030	Not Detected	0.15	Not Detected
1,1,1-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.030	0.12	0.19	0.75
Benzene	0.075	0.44	0.24	1.4
1,2-Dichloroethane	0.030	0.046	0.12	0.19
Trichloroethene	0.030	Not Detected	0.16	Not Detected
trans-1,3-Dichloropropene	0.030	Not Detected	0.14	Not Detected
Toluene	0.030	1.1	0.11	4.0
1,1,2-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Tetrachloroethene	0.030	0.044	0.20	0.30
Chlorobenzene	0.030	Not Detected	0.14	Not Detected
Ethyl Benzene	0.030	0.14	0.13	0.62
m,p-Xylene	0.060	0.46	0.26	2.0
o-Xylene	0.030	0.17	0.13	0.73
1,4-Dichlorobenzene	0.030	Not Detected	0.18	Not Detected
1,2-Dichlorobenzene	0.030	Not Detected	0.18	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Acetone	0.75	5.8	1.8	14
Methylene Chloride	0.30	Not Detected	1.0	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.54	Not Detected
1,1,2,2-Tetrachloroethane	0.030	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAQ-AA11-122111

Lab ID#: 1112517-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122722**	**Date of Collection:**	**12/21/11 7:27:00 AM**
Dil. Factor:	**1.75**	**Date of Analysis:**	**12/28/11 07:56 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.56	0.17	2.8
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.24	0.20	1.4
1,1-Dichloroethene	0.018	Not Detected	0.069	Not Detected
Freon 113	0.035	0.093	0.27	0.72
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.036	0.17	0.17
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.12	0.22	0.76
Benzene	0.088	0.80	0.28	2.6
1,2-Dichloroethane	0.035	0.054	0.14	0.22
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.035	1.9	0.13	7.3
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.098	0.24	0.67
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.26	0.15	1.1
m,p-Xylene	0.070	0.87	0.30	3.8
o-Xylene	0.035	0.30	0.15	1.3
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Acetone	0.88	7.4	2.1	18
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1112517-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/11 01:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1112517-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122702**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/11 09:53 AM**

Compound	%Recovery
Freon 12	100
Vinyl Chloride	102
Freon 11	98
1,1-Dichloroethene	101
Freon 113	98
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	98
Chloroform	99
1,1,1-Trichloroethane	98
Carbon Tetrachloride	99
Benzene	100
1,2-Dichloroethane	102
Trichloroethene	88
trans-1,3-Dichloropropene	94
Toluene	90
1,1,2-Trichloroethane	98
Tetrachloroethene	95
Chlorobenzene	92
Ethyl Benzene	91
m,p-Xylene	94
o-Xylene	89
1,4-Dichlorobenzene	78
1,2-Dichlorobenzene	83
trans-1,2-Dichloroethene	101
Acetone	104
Methylene Chloride	98
Methyl tert-butyl ether	94
1,1,2,2-Tetrachloroethane	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1112517-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/11 10:53 AM**	

Compound	%Recovery
Freon 12	106
Vinyl Chloride	104
Freon 11	102
1,1-Dichloroethene	103
Freon 113	101
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	98
Chloroform	102
1,1,1-Trichloroethane	101
Carbon Tetrachloride	124
Benzene	94
1,2-Dichloroethane	103
Trichloroethene	91
trans-1,3-Dichloropropene	93
Toluene	88
1,1,2-Trichloroethane	98
Tetrachloroethene	94
Chlorobenzene	96
Ethyl Benzene	93
m,p-Xylene	86
o-Xylene	90
1,4-Dichlorobenzene	87
1,2-Dichlorobenzene	97
trans-1,2-Dichloroethene	112
Acetone	83
Methylene Chloride	96
Methyl tert-butyl ether	84
1,1,2,2-Tetrachloroethane	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1112517-12AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c122704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/11 11:30 AM**	

Compound	%Recovery
Freon 12	108
Vinyl Chloride	106
Freon 11	103
1,1-Dichloroethene	104
Freon 113	102
1,1-Dichloroethane	103
cis-1,2-Dichloroethene	100
Chloroform	103
1,1,1-Trichloroethane	102
Carbon Tetrachloride	125
Benzene	96
1,2-Dichloroethane	104
Trichloroethene	92
trans-1,3-Dichloropropene	93
Toluene	89
1,1,2-Trichloroethane	99
Tetrachloroethene	96
Chlorobenzene	98
Ethyl Benzene	94
m,p-Xylene	87
o-Xylene	90
1,4-Dichlorobenzene	88
1,2-Dichlorobenzene	98
trans-1,2-Dichloroethene	114
Acetone	82
Methylene Chloride	97
Methyl tert-butyl ether	85
1,1,2,2-Tetrachloroethane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

AirTECHNOLOGY
Laboratories, Inc.

January 12, 2012

ACLASS ACCREDITED DoD ELAP
ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

nelac
FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

CDM
ATTN: Sharon Wallin
111 Academy, Suite 150
Irvine, CA 92617

LABORATORY TEST RESULTS

Project Reference: Omega Chemical; 10500
Lab Number: C122301-01/03

Enclosed are results for sample(s) received 12/23/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME

Standard [X] 48 hours [ ]
Same Day [ ] 72 hours [ ]
24 hours [ ] 96 hours [ ]
Other:

DELIVERABLES

EDD [ ]
EDF [ ]
LEVEL 3 [ ]
LEVEL 4 [ ]

PAGE: 1 **OF** 1

Condition upon receipt:
Sealed Yes [ ] No [ ]
Intact Yes [ ] No [ ]
Chilled _____ deg C

Project No.: 10500
Project Name: Omega IAQ
Report To: Sharon Wallin
Company: CDM
Street: 111 Academy Ste 150
City/State/Zip: Irvine / CA / 92617
Phone& Fax: (949) 752-5452 (949) 725-3790
e-mail: WallinSF@cdm.com

BILLING

P.O. No.:
Bill to: ← same as

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	TO-15 SIM					
C122301 - 01	IAQ-ROPI-122111-K2	12.21.11	0710	Air	C	X					
↓ - 02	IAQ-TPI-122111-K2	↓	0800	↓	↓	X					
↓ - 03	IAQ-AAS-122111-K2	↓	0813	↓	↓	X					

AUTHORIZATION TO PERFORM WORK	COMPANY CDM	DATE/TIME 12.21.11 / 16:00	
SAMPLED BY NB	COMPANY CDM	DATE/TIME 12.21.11 / 16:00	
RELINQUISHED BY	DATE/TIME 12.21.11/16:00	RECEIVED BY ON TRAC	DATE/TIME
RELINQUISHED BY ON TRAC 12/23/11	DATE/TIME 0901	RECEIVED BY DON THOMPSON 12/23/11	DATE/TIME 0901
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCL **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other

Rev. 03 - 5/7/09

EPA TO15
SIM Mode

Lab Sample:	C122301-01	**Date Collected:**	12/21/11
Client Sample:	IAQ-ROP1-122111-K2	**Date Received:**	12/23/11
Project Name:	Omega IAQ	**QC Batch:**	120104MS2A2
Project #:	10500	**Sample Type:**	SA

Analyte	Result ppbv	RL ppbv	Date Analyzed	Dilution Factor
Dichlorodifluoromethane (12)	0.59	0.020	01/05/12	1.0
Vinyl Chloride	ND	0.010	01/05/12	1.0
Trichlorofluoromethane (11)	0.28	0.020	01/05/12	1.0
1,1,2-Cl 1,2,2-F ethane (113)	0.12	0.020	01/05/12	1.0
Acetone	38	5.0	01/05/12	10
1,1-Dichloroethene	0.040	0.010	01/05/12	1.0
Methylene Chloride	2.4	0.20	01/05/12	1.0
t-Butyl Methyl Ether (MTBE)	ND	0.10	01/05/12	1.0
t-1,2-Dichloroethene	ND	0.10	01/05/12	1.0
1,1-Dichloroethane	ND	0.20	01/05/12	1.0
c-1,2-Dichloroethene	ND	0.020	01/05/12	1.0
Chloroform	0.058	0.020	01/05/12	1.0
1,1,1-Trichloroethane	ND	0.020	01/05/12	1.0
Carbon Tetrachloride	0.099	0.020	01/05/12	1.0
Benzene	0.86	0.050	01/05/12	1.0
1,2-Dichloroethane	0.023	0.020	01/05/12	1.0
Trichloroethene	0.027	0.0030	01/05/12	1.0
Toluene	2.7	0.020	01/05/12	1.0
t-1,3-Dichloropropene	ND	0.020	01/05/12	1.0
1,1,2-Trichloroethane	ND	0.020	01/05/12	1.0
Tetrachloroethene	0.19	0.020	01/05/12	1.0
Chlorobenzene	ND	0.020	01/05/12	1.0
Ethylbenzene	0.42	0.020	01/05/12	1.0
p,&m-Xylene	1.4	0.060	01/05/12	1.0
o-Xylene	0.53	0.060	01/05/12	1.0
1,1,2,2-Tetrachloroethane	ND	0.020	01/05/12	1.0
1,4-Dichlorobenzene	ND	0.020	01/05/12	1.0
1,2-Dichlorobenzene	ND	0.10	01/05/12	1.0

RL = Reporting Limit
ND = Not detected above RL

The cover letter is an intergral part of this report

EPA TO15
SIM Mode

Lab Sample:	C122301-02	**Date Collected:**	12/21/11
Client Sample:	IAQ-TP1-122111-K2	**Date Received:**	12/23/11
Project Name:	Omega IAQ	**QC Batch:**	120104MS2A2
Project #:	10500	**Sample Type:**	SA

Analyte	Result ppbv	RL ppbv	Date Analyzed	Dilution Factor
Dichlorodifluoromethane (12)	0.59	0.020	01/05/12	1.0
Vinyl Chloride	ND	0.010	01/05/12	1.0
Trichlorofluoromethane (11)	0.28	0.020	01/05/12	1.0
1,1,2-Cl 1,2,2-F ethane (113)	0.11	0.020	01/05/12	1.0
Acetone	16	1.9	01/05/12	3.8
1,1-Dichloroethene	0.015	0.010	01/05/12	1.0
Methylene Chloride	0.24	0.20	01/05/12	1.0
t-Butyl Methyl Ether (MTBE)	ND	0.10	01/05/12	1.0
t-1,2-Dichloroethene	ND	0.10	01/05/12	1.0
1,1-Dichloroethane	ND	0.20	01/05/12	1.0
c-1,2-Dichloroethene	ND	0.020	01/05/12	1.0
Chloroform	0.040	0.020	01/05/12	1.0
1,1,1-Trichloroethane	ND	0.020	01/05/12	1.0
Carbon Tetrachloride	0.10	0.020	01/05/12	1.0
Benzene	0.93	0.050	01/05/12	1.0
1,2-Dichloroethane	0.020	0.020	01/05/12	1.0
Trichloroethene	0.022	0.0030	01/05/12	1.0
Toluene	3.1	0.020	01/05/12	1.0
t-1,3-Dichloropropene	ND	0.020	01/05/12	1.0
1,1,2-Trichloroethane	ND	0.020	01/05/12	1.0
Tetrachloroethene	0.20	0.020	01/05/12	1.0
Chlorobenzene	ND	0.020	01/05/12	1.0
Ethylbenzene	0.91	0.020	01/05/12	1.0
p,&m-Xylene	3.2	0.060	01/05/12	1.0
o-Xylene	1.3	0.060	01/05/12	1.0
1,1,2,2-Tetrachloroethane	ND	0.020	01/05/12	1.0
1,4-Dichlorobenzene	0.020	0.020	01/05/12	1.0
1,2-Dichlorobenzene	ND	0.10	01/05/12	1.0

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EPA TO15
SIM Mode

Lab Sample:	C122301-03	**Date Collected:**	12/21/11
Client Sample:	IAQ-AA8-122111-K2	**Date Received:**	12/23/11
Project Name:	Omega IAQ	**QC Batch:**	120104MS2A2
Project #:	10500	**Sample Type:**	SA

Analyte	Result ppbv	RL ppbv	Date Analyzed	Dilution Factor
Dichlorodifluoromethane (12)	0.56	0.040	01/05/12	2.0
Vinyl Chloride	ND	0.020	01/05/12	2.0
Trichlorofluoromethane (11)	0.27	0.040	01/05/12	2.0
1,1,2-Cl 1,2,2-F ethane (113)	0.087	0.040	01/05/12	2.0
Acetone	9.9	1.0	01/05/12	2.0
1,1-Dichloroethene	ND	0.020	01/05/12	2.0
Methylene Chloride	ND	0.40	01/05/12	2.0
t-Butyl Methyl Ether (MTBE)	ND	0.20	01/05/12	2.0
t-1,2-Dichloroethene	ND	0.20	01/05/12	2.0
1,1-Dichloroethane	ND	0.40	01/05/12	2.0
c-1,2-Dichloroethene	ND	0.040	01/05/12	2.0
Chloroform	0.048	0.040	01/05/12	2.0
1,1,1-Trichloroethane	ND	0.040	01/05/12	2.0
Carbon Tetrachloride	0.090	0.040	01/05/12	2.0
Benzene	0.61	0.10	01/05/12	2.0
1,2-Dichloroethane	ND	0.040	01/05/12	2.0
Trichloroethene	0.016	0.0060	01/05/12	2.0
Toluene	1.5	0.040	01/05/12	2.0
t-1,3-Dichloropropene	ND	0.040	01/05/12	2.0
1,1,2-Trichloroethane	ND	0.040	01/05/12	2.0
Tetrachloroethene	0.087	0.040	01/05/12	2.0
Chlorobenzene	ND	0.040	01/05/12	2.0
Ethylbenzene	0.24	0.040	01/05/12	2.0
p,&m-Xylene	0.72	0.12	01/05/12	2.0
o-Xylene	0.31	0.12	01/05/12	2.0
1,1,2,2-Tetrachloroethane	ND	0.040	01/05/12	2.0
1,4-Dichlorobenzene	ND	0.040	01/05/12	2.0
1,2-Dichlorobenzene	ND	0.20	01/05/12	2.0

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ND = Not detected above RL

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EPA TO15
SIM Mode

Lab Sample:	METHOD BLANK	**Date Collected:**	-
Client Sample:	-	**Date Received:**	-
Project Name:	-	**QC Batch:**	120104MS2A2
Project #:	-	**Sample Type:**	SA

Analyte	Result ppbv	RL ppbv	Date Analyzed	Dilution Factor
Dichlorodifluoromethane (12)	ND	0.020	01/04/12	1.0
Vinyl Chloride	ND	0.010	01/04/12	1.0
Trichlorofluoromethane (11)	ND	0.020	01/04/12	1.0
1,1,2-Cl 1,2,2-F ethane (113)	ND	0.020	01/04/12	1.0
Acetone	ND	0.50	01/04/12	1.0
1,1-Dichloroethene	ND	0.010	01/04/12	1.0
Methylene Chloride	ND	0.20	01/04/12	1.0
t-Butyl Methyl Ether (MTBE)	ND	0.10	01/04/12	1.0
t-1,2-Dichloroethene	ND	0.10	01/04/12	1.0
1,1-Dichloroethane	ND	0.20	01/04/12	1.0
c-1,2-Dichloroethene	ND	0.020	01/04/12	1.0
Chloroform	ND	0.020	01/04/12	1.0
1,1,1-Trichloroethane	ND	0.020	01/04/12	1.0
Carbon Tetrachloride	ND	0.020	01/04/12	1.0
Benzene	ND	0.050	01/04/12	1.0
1,2-Dichloroethane	ND	0.020	01/04/12	1.0
Trichloroethene	ND	0.0030	01/04/12	1.0
Toluene	ND	0.020	01/04/12	1.0
t-1,3-Dichloropropene	ND	0.020	01/04/12	1.0
1,1,2-Trichloroethane	ND	0.020	01/04/12	1.0
Tetrachloroethene	ND	0.020	01/04/12	1.0
Chlorobenzene	ND	0.020	01/04/12	1.0
Ethylbenzene	ND	0.020	01/04/12	1.0
p,&m-Xylene	ND	0.060	01/04/12	1.0
o-Xylene	ND	0.060	01/04/12	1.0
1,1,2,2-Tetrachloroethane	ND	0.020	01/04/12	1.0
1,4-Dichlorobenzene	ND	0.020	01/04/12	1.0
1,2-Dichlorobenzene	ND	0.10	01/04/12	1.0

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ND = Not detected above RL

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EPA TO15
SIM Mode

Lab Sample:	C122301-01	**Date Collected:**	12/21/11
Client Sample:	IAQ-ROP1-122111-K2	**Date Received:**	12/23/11
Project Name:	Omega IAQ	**QC Batch:**	120104MS2A2
Project #:	10500	**Sample Type:**	SA

Analyte	Result ug/m3	RL ug/m3	Date Analyzed	Dilution Factor
Dichlorodifluoromethane (12)	2.9	0.099	01/05/12	1.0
Vinyl Chloride	ND	0.026	01/05/12	1.0
Trichlorofluoromethane (11)	1.6	0.11	01/05/12	1.0
1,1,2-Cl 1,2,2-F ethane (113)	0.89	0.15	01/05/12	1.0
Acetone	90	12	01/05/12	10
1,1-Dichloroethene	0.16	0.040	01/05/12	1.0
Methylene Chloride	8.5	0.69	01/05/12	1.0
t-Butyl Methyl Ether (MTBE)	ND	0.36	01/05/12	1.0
t-1,2-Dichloroethene	ND	0.40	01/05/12	1.0
1,1-Dichloroethane	ND	0.81	01/05/12	1.0
c-1,2-Dichloroethene	ND	0.079	01/05/12	1.0
Chloroform	0.28	0.098	01/05/12	1.0
1,1,1-Trichloroethane	ND	0.11	01/05/12	1.0
Carbon Tetrachloride	0.62	0.13	01/05/12	1.0
Benzene	2.7	0.16	01/05/12	1.0
1,2-Dichloroethane	0.094	0.081	01/05/12	1.0
Trichloroethene	0.15	0.016	01/05/12	1.0
Toluene	10	0.075	01/05/12	1.0
t-1,3-Dichloropropene	ND	0.091	01/05/12	1.0
1,1,2-Trichloroethane	ND	0.11	01/05/12	1.0
Tetrachloroethene	1.3	0.14	01/05/12	1.0
Chlorobenzene	ND	0.092	01/05/12	1.0
Ethylbenzene	1.8	0.087	01/05/12	1.0
p,&m-Xylene	5.9	0.26	01/05/12	1.0
o-Xylene	2.3	0.26	01/05/12	1.0
1,1,2,2-Tetrachloroethane	ND	0.14	01/05/12	1.0
1,4-Dichlorobenzene	ND	0.12	01/05/12	1.0
1,2-Dichlorobenzene	ND	0.60	01/05/12	1.0

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ND = Not detected above RL

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EPA TO15
SIM Mode

Lab Sample:	C122301-02	**Date Collected:**	12/21/11
Client Sample:	IAQ-TP1-122111-K2	**Date Received:**	12/23/11
Project Name:	Omega IAQ	**QC Batch:**	120104MS2A2
Project #:	10500	**Sample Type:**	SA

Analyte	Result ug/m3	RL ug/m3	Date Analyzed	Dilution Factor
Dichlorodifluoromethane (12)	2.9	0.099	01/05/12	1.0
Vinyl Chloride	ND	0.026	01/05/12	1.0
Trichlorofluoromethane (11)	1.6	0.11	01/05/12	1.0
1,1,2-Cl 1,2,2-F ethane (113)	0.81	0.15	01/05/12	1.0
Acetone	37	4.5	01/05/12	3.8
1,1-Dichloroethene	0.058	0.040	01/05/12	1.0
Methylene Chloride	0.83	0.69	01/05/12	1.0
t-Butyl Methyl Ether (MTBE)	ND	0.36	01/05/12	1.0
t-1,2-Dichloroethene	ND	0.40	01/05/12	1.0
1,1-Dichloroethane	ND	0.81	01/05/12	1.0
c-1,2-Dichloroethene	ND	0.079	01/05/12	1.0
Chloroform	0.20	0.098	01/05/12	1.0
1,1,1-Trichloroethane	ND	0.11	01/05/12	1.0
Carbon Tetrachloride	0.63	0.13	01/05/12	1.0
Benzene	3.0	0.16	01/05/12	1.0
1,2-Dichloroethane	0.082	0.081	01/05/12	1.0
Trichloroethene	0.12	0.016	01/05/12	1.0
Toluene	12	0.075	01/05/12	1.0
t-1,3-Dichloropropene	ND	0.091	01/05/12	1.0
1,1,2-Trichloroethane	ND	0.11	01/05/12	1.0
Tetrachloroethene	1.3	0.14	01/05/12	1.0
Chlorobenzene	ND	0.092	01/05/12	1.0
Ethylbenzene	4.0	0.087	01/05/12	1.0
p,&m-Xylene	14	0.26	01/05/12	1.0
o-Xylene	5.6	0.26	01/05/12	1.0
1,1,2,2-Tetrachloroethane	ND	0.14	01/05/12	1.0
1,4-Dichlorobenzene	0.12	0.12	01/05/12	1.0
1,2-Dichlorobenzene	ND	0.60	01/05/12	1.0

RL = Reporting Limit
ND = Not detected above RL

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EPA TO15
SIM Mode

Lab Sample:	C122301-03	**Date Collected:**	12/21/11
Client Sample:	IAQ-AA8-122111-K2	**Date Received:**	12/23/11
Project Name:	Omega IAQ	**QC Batch:**	120104MS2A2
Project #:	10500	**Sample Type:**	SA

Analyte	Result ug/m3	RL ug/m3	Date Analyzed	Dilution Factor
Dichlorodifluoromethane (12)	2.8	0.20	01/05/12	2.0
Vinyl Chloride	ND	0.051	01/05/12	2.0
Trichlorofluoromethane (11)	1.5	0.22	01/05/12	2.0
1,1,2-Cl 1,2,2-F ethane (113)	0.66	0.31	01/05/12	2.0
Acetone	24	2.4	01/05/12	2.0
1,1-Dichloroethene	ND	0.079	01/05/12	2.0
Methylene Chloride	ND	1.4	01/05/12	2.0
t-Butyl Methyl Ether (MTBE)	ND	0.72	01/05/12	2.0
t-1,2-Dichloroethene	ND	0.79	01/05/12	2.0
1,1-Dichloroethane	ND	1.6	01/05/12	2.0
c-1,2-Dichloroethene	ND	0.16	01/05/12	2.0
Chloroform	0.23	0.20	01/05/12	2.0
1,1,1-Trichloroethane	ND	0.22	01/05/12	2.0
Carbon Tetrachloride	0.57	0.25	01/05/12	2.0
Benzene	1.9	0.32	01/05/12	2.0
1,2-Dichloroethane	ND	0.16	01/05/12	2.0
Trichloroethene	0.085	0.032	01/05/12	2.0
Toluene	5.6	0.15	01/05/12	2.0
t-1,3-Dichloropropene	ND	0.18	01/05/12	2.0
1,1,2-Trichloroethane	ND	0.22	01/05/12	2.0
Tetrachloroethene	0.59	0.27	01/05/12	2.0
Chlorobenzene	ND	0.18	01/05/12	2.0
Ethylbenzene	1.1	0.17	01/05/12	2.0
p,&m-Xylene	3.1	0.52	01/05/12	2.0
o-Xylene	1.3	0.52	01/05/12	2.0
1,1,2,2-Tetrachloroethane	ND	0.27	01/05/12	2.0
1,4-Dichlorobenzene	ND	0.24	01/05/12	2.0
1,2-Dichlorobenzene	ND	1.2	01/05/12	2.0

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ND = Not detected above RL

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EPA TO15
SIM Mode

Lab Sample:	METHOD BLANK	**Date Collected:**	-
Client Sample:	-	**Date Received:**	-
Project Name:	-	**QC Batch:**	120104MS2A2
Project #:	-	**Sample Type:**	SA

Analyte	Result ug/m3	RL ug/m3	Date Analyzed	Dilution Factor
Dichlorodifluoromethane (12)	ND	0.099	01/04/12	1.0
Vinyl Chloride	ND	0.026	01/04/12	1.0
Trichlorofluoromethane (11)	ND	0.11	01/04/12	1.0
1,1,2-Cl 1,2,2-F ethane (113)	ND	0.15	01/04/12	1.0
Acetone	ND	1.2	01/04/12	1.0
1,1-Dichloroethene	ND	0.040	01/04/12	1.0
Methylene Chloride	ND	0.69	01/04/12	1.0
t-Butyl Methyl Ether (MTBE)	ND	0.36	01/04/12	1.0
t-1,2-Dichloroethene	ND	0.40	01/04/12	1.0
1,1-Dichloroethane	ND	0.81	01/04/12	1.0
c-1,2-Dichloroethene	ND	0.079	01/04/12	1.0
Chloroform	ND	0.098	01/04/12	1.0
1,1,1-Trichloroethane	ND	0.11	01/04/12	1.0
Carbon Tetrachloride	ND	0.13	01/04/12	1.0
Benzene	ND	0.16	01/04/12	1.0
1,2-Dichloroethane	ND	0.081	01/04/12	1.0
Trichloroethene	ND	0.016	01/04/12	1.0
Toluene	ND	0.075	01/04/12	1.0
t-1,3-Dichloropropene	ND	0.091	01/04/12	1.0
1,1,2-Trichloroethane	ND	0.11	01/04/12	1.0
Tetrachloroethene	ND	0.14	01/04/12	1.0
Chlorobenzene	ND	0.092	01/04/12	1.0
Ethylbenzene	ND	0.087	01/04/12	1.0
p,&m-Xylene	ND	0.26	01/04/12	1.0
o-Xylene	ND	0.26	01/04/12	1.0
1,1,2,2-Tetrachloroethane	ND	0.14	01/04/12	1.0
1,4-Dichlorobenzene	ND	0.12	01/04/12	1.0
1,2-Dichlorobenzene	ND	0.60	01/04/12	1.0

RL = Reporting Limit
ND = Not detected above RL

The cover letter is an intergral part of this report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 120104MS2A2

Matrix: Air

EPA Method TO-15 SIM

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	01/04/12		01/04/12		01/04/12						
Data File ID:	04JAN019.D		04JAN017.D		04JAN018.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result pptv	Spike Amount	Result pptv	% Rec	Result pptv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
Vinyl Chloride	0.0	500	532	106	534	107	0.4	70	130	30	Pass
1,1-Dichloroethene	0.0	500	524	105	514	103	2.0	70	130	30	Pass
1,1,1-Trichloroethane	2.0	500	543	109	539	108	0.8	70	130	30	Pass
Benzene	14.6	500	487	97	462	92	5.3	70	130	30	Pass
Trichloroethene	0.0	500	447	89	408	82	9.1	70	130	30	Pass
Tetrachloroethene	1.3	500	502	100	436	87	13.9	70	130	30	Pass

Reviewed/Approved By: _____ Date: 1/12/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

SSD Laboratory Reports

AirTECHNOLOGY
Laboratories, Inc.

October 21, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Ken Hewlett
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – SSD System; E-742
Lab Number: C101108-01/02

Enclosed are results for sample(s) received 10/11/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME				DELIVERABLES		PAGE: 1 OF 1
Standard	■	48 hours	☐	EDD	■	Condition upon receipt:
Same Day	☐	72 hours	☐	EDF	☐	Sealed Yes ☐ No ☐
24 hours	☐	96 hours	☐	Level 3	☐	Intact Yes ☐ No ☐
Other:				Level 4	☐	Chilled _____ deg C

Project No.:	E742		
Project Name:	Omega - SSD System		
Report To:	Ken Hewlett		
Company:	de maximis, Inc.	***P.O. No.:***	
Street:	1322 Scott Street, Suite 104	***Bill to:***	de maximis, inc.
City/State/Zip:	San Diego, CA 92106		1322 Scott Street, Suite 104
Phone& Fax:	(310) 926-5368		San Diego, CA 92106
e-mail:	khewlett@demaximis.com		

BILLING

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	TO-15 (TAL 2.4)					
C101108-01	OC_SSD_B-8_101111	10/11/2011	0950	Summa	Air	No/C	X					
↓ -02	OC_SSD_B-17_101111	10/11/2011	1015	Summa	Air	No/C	X					

AUTHORIZATION TO PERFORM WORK: Carlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 10/11/11	1415
SAMPLED BY: Carlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 10/11/11	1415
RELINQUISHED BY: [signature]	DATE/TIME: 10/11/11 1415	RECEIVED BY: DON TIONGSON	DATE/TIME: 10/11/11 1415
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - SSD System
Project No.: E-742
Date Received: 10/11/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101108-01			C101108-02		
Client Sample I.D.:	OC_SSD_B-8_101111			OC_SSD_B-17_101111		
Date Sampled:	10/11/11			10/11/11		
Date Analyzed:	10/19/11			10/19/11		
QC Batch No.:	111019MS2A1			111019MS2A2		
Analyst Initials:	DT			DT		
Dilution Factor:	2.5			88		
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**
Dichlorodifluoromethane (12)	1.3 J	2.5	0.12	ND	88	4.2
Chloromethane	1.4 J	5.0	0.83	ND	180	29
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.5	0.32	ND	88	11
Vinyl Chloride	ND	2.5	0.55	ND	88	20
Bromomethane	1.4 J	2.5	0.28	ND	88	9.8
Chloroethane	ND	2.5	0.90	ND	88	32
Trichlorofluoromethane (11)	41	2.5	1.0	730	88	36
1,1-Dichloroethene	87	2.5	0.27	4,500	88	9.5
Carbon Disulfide	ND	12	0.37	ND	440	13
1,1,2-Cl 1,2,2-F ethane (113)	240	2.5	0.57	4,700	88	20
Acetone	35	12	0.78	370 J	440	28
Methylene Chloride	ND	2.5	0.49	ND	88	17
t-1,2-Dichloroethene	ND	2.5	0.40	ND	88	14
1,1-Dichloroethane	ND	2.5	0.30	31 J	88	10
Vinyl Acetate	ND	12	0.43	ND	440	15
c-1,2-Dichloroethene	ND	2.5	0.55	ND	88	19
2-Butanone	ND	2.5	0.63	ND	88	22
t-Butyl Methyl Ether (MTBE)	ND	2.5	0.49	ND	88	17
Chloroform	4.6	2.5	0.35	430	88	12
1,1,1-Trichloroethane	ND	2.5	0.28	ND	88	10
Carbon Tetrachloride	ND	2.5	0.29	ND	88	10
Benzene	1.3 J	2.5	0.49	29 J	88	17
1,2-Dichloroethane	ND	2.5	0.65	ND	88	23
Trichloroethene	21	2.5	0.39	1,100	88	14
1,2-Dichloropropane	ND	2.5	0.32	ND	88	11
Bromodichloromethane	ND	2.5	0.37	ND	88	13
c-1,3-Dichloropropene	ND	2.5	0.56	ND	88	20
4-Methyl-2-Pentanone	ND	2.5	0.12	67 J	88	4.2
Toluene	1.9 J	2.5	0.32	89	88	11
t-1,3-Dichloropropene	ND	2.5	0.30	ND	88	11
1,1,2-Trichloroethane	ND	2.5	0.51	ND	88	18
Tetrachloroethene	490	2.5	0.28	14,000	88	9.9
2-Hexanone	ND	2.5	0.25	ND	88	8.9
Dibromochloromethane	ND	2.5	0.43	ND	88	15
1,2-Dibromoethane	ND	2.5	0.33	ND	88	12
Chlorobenzene	ND	2.5	0.36	ND	88	13

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - SSD System
Project No.: E-742
Date Received: 10/11/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101108-01			C101108-02		
Client Sample I.D.:	OC_SSD_B-8_101111			OC_SSD_B-17_101111		
Date Sampled:	10/11/11			10/11/11		
Date Analyzed:	10/19/11			10/19/11		
QC Batch No.:	111019MS2A1			111019MS2A2		
Analyst Initials:	DT			DT		
Dilution Factor:	2.5			88		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	2.5	0.075	ND	88	2.7
p,&m-Xylene	ND	2.5	0.57	40 J	88	20
o-Xylene	ND	2.5	0.34	33 J	88	12
Isopropanol	4.5 J	12	1.7	ND	440	60
n-Hexane	0.70 J	12	0.63	ND	440	22
1,4-Dioxane	ND	12	1.6	ND	440	58
Total VOC's	930			26,000		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	98%	70-130%	131% *	70-130%
Toluene-d8	102%	70-130%	89%	70-130%
4-Bromofluorobenzene	98%	70-130%	110%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager

Date 10/21/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - SSD System
Project No.: E-742
Date Received: 10/11/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101108-01			C101108-02		
Client Sample I.D.:	OC_SSD_B-8_101111			OC_SSD_B-17_101111		
Date Sampled:	10/11/11			10/11/11		
Date Analyzed:	10/19/11			10/19/11		
QC Batch No.:	111019MS2A1			111019MS2A2		
Analyst Initials:	DT			DT		
Dilution Factor:	2.5			88		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	6.4 J	12	0.58	ND	440	21
Chloromethane	2.8 J	10	1.7	ND	360	61
1,2-Cl-1,1,2,2-F ethane (114)	ND	17	2.2	ND	620	79
Vinyl Chloride	ND	6.4	1.4	ND	230	50
Bromomethane	5.3 J	9.7	1.1	ND	340	38
Chloroethane	ND	6.6	2.4	ND	230	84
Trichlorofluoromethane (11)	230	14	5.7	4,100	500	200
1,1-Dichloroethene	340	9.9	1.1	18,000	350	38
Carbon Disulfide	ND	39	1.2	ND	1,400	41
1,1,2-Cl 1,2,2-F ethane (113)	1,900	19	4.4	36,000	680	160
Acetone	84	30	1.9	880 J	1,000	66
Methylene Chloride	ND	8.7	1.7	ND	310	60
t-1,2-Dichloroethene	ND	9.9	1.6	ND	350	57
1,1-Dichloroethane	ND	10	1.2	130 J	360	42
Vinyl Acetate	ND	44	1.5	ND	1,600	54
c-1,2-Dichloroethene	ND	9.9	2.2	ND	350	77
2-Butanone	ND	7.3	1.9	ND	260	66
t-Butyl Methyl Ether (MTBE)	ND	9.0	1.8	ND	320	63
Chloroform	23	12	1.7	2,100	430	60
1,1,1-Trichloroethane	ND	14	1.5	ND	480	55
Carbon Tetrachloride	ND	16	1.8	ND	550	64
Benzene	4.1 J	8.0	1.6	91 J	280	55
1,2-Dichloroethane	ND	10	2.6	ND	360	94
Trichloroethene	110	13	2.1	5,900	470	74
1,2-Dichloropropane	ND	12	1.5	ND	410	52
Bromodichloromethane	ND	17	2.5	ND	590	89
c-1,3-Dichloropropene	ND	11	2.5	ND	400	90
4-Methyl-2-Pentanone	ND	10	0.48	270 J	360	17
Toluene	7.0 J	9.4	1.2	340	330	42
t-1,3-Dichloropropene	ND	11	1.4	ND	400	49
1,1,2-Trichloroethane	ND	14	2.8	ND	480	98
Tetrachloroethene	3,300	17	1.9	92,000	600	67
2-Hexanone	ND	10	1.0	ND	360	37
Dibromochloromethane	ND	21	3.7	ND	750	130
1,2-Dibromoethane	ND	19	2.5	ND	680	89
Chlorobenzene	ND	11	1.7	ND	410	58

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - SSD System
Project No.: E-742
Date Received: 10/11/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101108-01			C101108-02		
Client Sample I.D.:	OC_SSD_B-8_101111			OC_SSD_B-17_101111		
Date Sampled:	10/11/11			10/11/11		
Date Analyzed:	10/19/11			10/19/11		
QC Batch No.:	111019MS2A1			111019MS2A2		
Analyst Initials:	DT			DT		
Dilution Factor:	2.5			88		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	11	0.33	ND	380	12
p,&m-Xylene	ND	11	2.5	170 J	380	88
o-Xylene	ND	11	1.5	140 J	380	53
Isopropanol	11 J	31	4.2	ND	1,100	150
n-Hexane	2.5 J	44	2.2	ND	1,600	78
1,4-Dioxane	ND	45	5.9	ND	1,600	210
Total VOC's	6,000			160,000		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	98%	70-130%	131% *	70-130%
Toluene-d8	102%	70-130%	89%	70-130%
4-Bromofluorobenzene	98%	70-130%	110%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 10/21/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111019MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	10/19/11		10/19/11		10/19/11						
Data File ID:	19OCT006.D		19OCT018.D		19OCT019.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.4	84	8.5	85	0.8	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.5	85	9.2	92	8.1	70	130	30	Pass
Trichloroethene	0.0	10.0	8.1	81	7.9	79	1.8	70	130	30	Pass
Toluene	0.0	10.0	8.0	80	8.1	81	1.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.2	92	9.5	95	4.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 10/21/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111019MS2A2

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	10/19/11		10/19/11		10/19/11						
Data File ID:	19OCT024.D		19OCT022.D		19OCT023.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.6	86	9.0	90	5.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.2	92	9.3	93	1.9	70	130	30	Pass
Trichloroethene	0.0	10.0	8.0	80	8.3	83	3.8	70	130	30	Pass
Toluene	0.0	10.0	8.1	81	8.2	82	0.6	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.7	97	9.9	99	2.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 10/21/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111017\19OCT002.D
Tune Time : 19 Oct 2011 3:46

Daily Calibration File : D:\GCMSB\111017\19OCT003.D

File	Sample	Surrogate Recovery %			Daily cali. I.S. response 41866	185563	118391
					Internal Standard Responses		
19OCT006	METHOD BLANK	120	84	72	46550	156316	103100
19OCT007	C101107-01 d	114	89	105	43108	154976	117071
19OCT010	C101107-03 d	104	106	123	34834	146424	108598
19OCT014	C101107-02 d	102	95	110	38143	159341	130625
19OCT015	C101108-01 d	98	102	98	39219	165334	126668
19OCT018	TO15 LCS	107	87	119	39938	161597	105613
19OCT019	TO15 LCSD	106	85	107	49047	197451	127359

surrogate recovery limits 70-130%
Internal standard response limits 60-140%

t - fails 24hr time check * - fails criteria
Created:Fri Oct 21 11:14:06 2011

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111017\19OCT020.D
Tune Time : 19 Oct 2011 18:02

Daily Calibration File : D:\GCMSB\111017\19OCT021.D

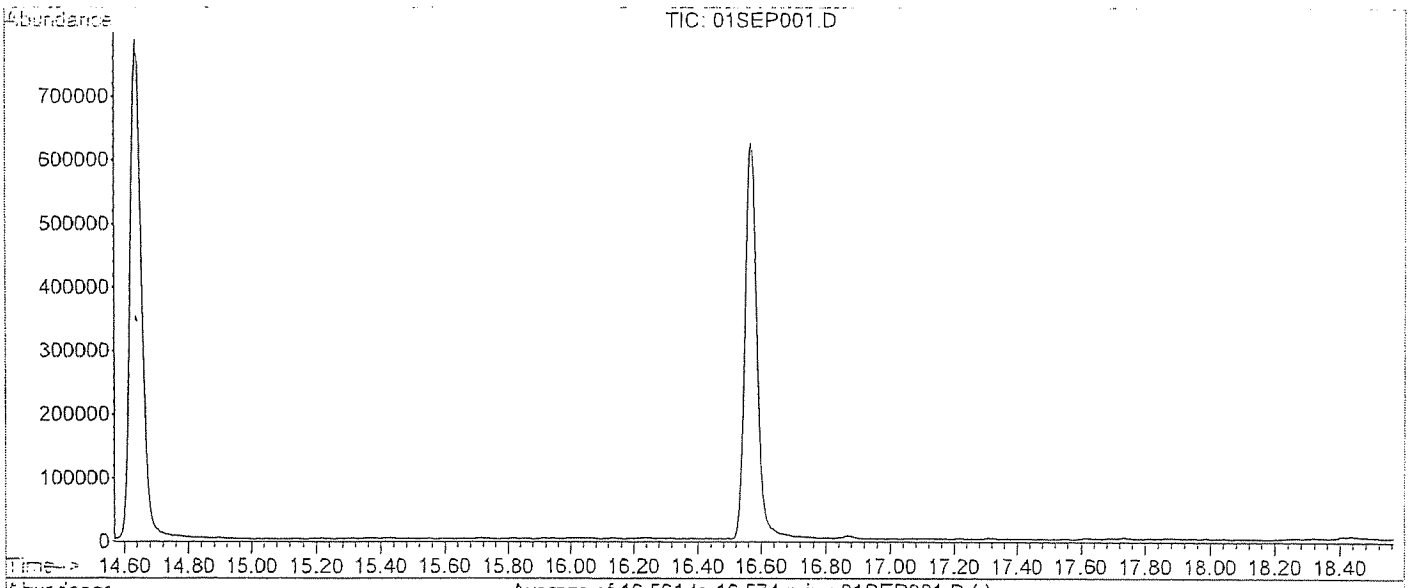
					Daily cali. I.S. response		
					58339	230503	148310
File	Sample	Surrogate Recovery %			Internal Standard Responses		
19OCT022	TO15 LCS	109	86	107	57863	228051	147275
19OCT023	TO15 LCSD	109	86	113	56488	227158	145072
19OCT024	METHOD BLANK	127	84	77	53249	173062	110721
19OCT025	C101108-02 d	131*	89	110	50275	164805	127478

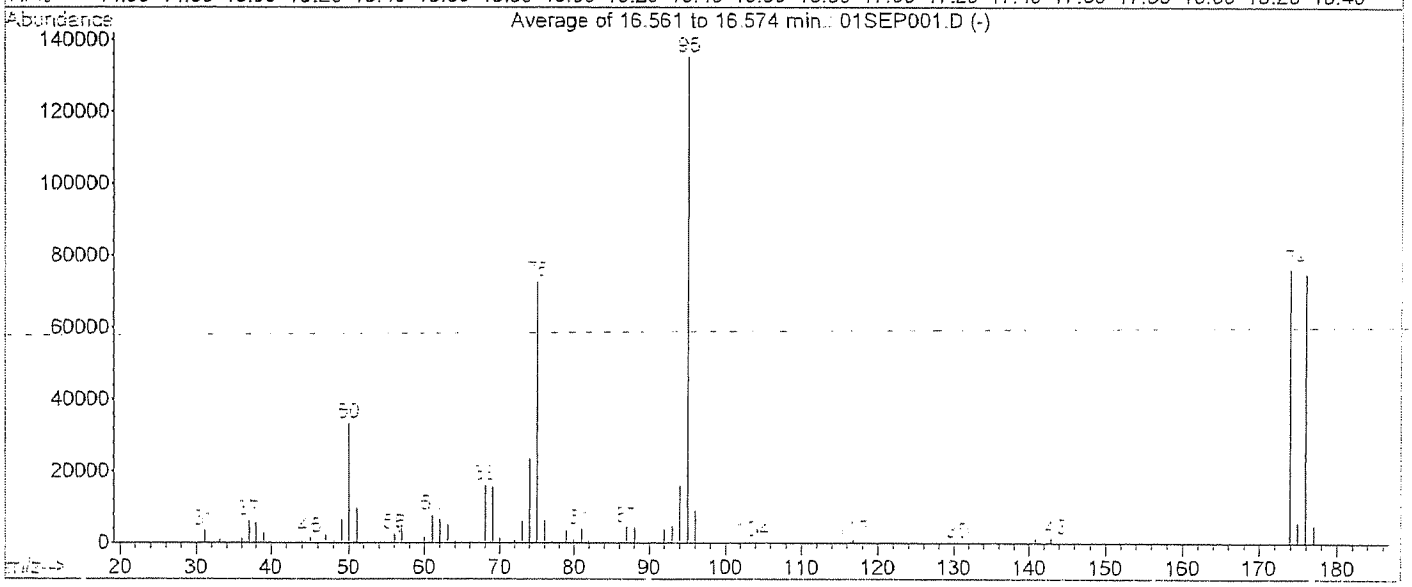
surrogate recovery limits 70-130%
Internal standard response limits 60-140%

t - fails 24hr time check * - fails criteria
Created:Fri Oct 21 11:15:20 2011

Data File : D:\GCMSB\110829\01SEP001.D
Acq On : 31 Aug 2011 23:06
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 4
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	33312	PASS
75	95	30	60	53.8	72664	PASS
95	95	100	100	100.0	135107	PASS
96	95	5	9	6.6	8964	PASS
173	174	0.00	2	0.4	311	PASS
174	95	50	100	56.6	76413	PASS
175	174	5	9	7.6	5792	PASS
176	174	95	101	98.3	75117	PASS
177	176	5	9	6.6	4934	PASS

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	7.505	7.130	6.709	6.545	6.058	4.048	6.332	19.33
3)		Chloromethane	2.738	2.615	2.562	2.516	2.468	1.745	2.441	14.47
4)		1,2-Cl-1,1,2,2-F et	6.700	6.378	6.054	5.933	5.629	3.916	5.768	16.98
5)		Vinyl Chloride	2.578	2.501	2.453	2.441	2.466	1.735	2.362	13.18
6)		Bromomethane	1.355	1.051	1.046	0.976	1.019	0.731	1.030	19.35
7)		Chloroethane	1.378	1.158	1.044	0.984	0.963	0.681	1.034	22.31
8)		Trichlorofluorometh	6.825	6.479	6.183	6.020	5.709	4.129	5.891	16.03
9)	M	1,1-Dichloroethene	3.788	4.037	4.089	4.175	4.124	2.945	3.860	12.12
10)		Carbon Disulfide	4.959	5.118	5.188	5.365	5.407	3.828	4.977	11.78
11)		1,1,2-Cl 1,2,2-F et	3.079	2.999	2.859	2.848	2.704	1.929	2.736	15.21
12)		Acetone		4.660	4.549	4.428	4.098	2.900	4.127	17.39
13)	M	Methylene Chloride	1.771	1.775	1.697	1.743	1.736	1.244	1.661	12.42
14)		t-1,2-Dichloroethen	1.665	1.812	1.807	1.887	1.893	1.392	1.743	10.93
15)		1,1-Dichloroethane	4.429	4.529	4.462	4.518	4.412	3.133	4.247	12.90
16)		Vinyl Acetate	6.157	7.514	8.204	8.415	8.246	5.492	7.338	16.76
17)		c-1,2-Dichloroethen	1.804	1.952	1.996	1.996	1.986	1.435	1.862	11.89
18)		2-Butanone	0.454	0.934	0.988	1.029	1.042	0.739	0.864	26.54
19)		t-Butyl Methyl Ethe	4.634	5.070	5.492	5.809	5.919	4.067	5.165	13.92
20)	t	Chloroform	4.957	4.914	4.781	4.768	4.634	3.319	4.562	13.58
21)		1,1,1-Trichloroetha	4.584	4.643	4.503	4.638	4.635	3.368	4.395	11.52
22)		1,1-Dichloropropene	2.979	3.397	3.494	3.584	3.566	2.571	3.265	12.45
23)	t	Carbon Tetrachlorid	3.485	4.021	3.962	4.252	4.278	3.138	3.856	11.75
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.510	1.415	1.432	1.350	1.455	1.334	1.416	4.65
26)	S	1,2-Dichloroethane-	0.386	0.363	0.378	0.380	0.399	0.645	0.425	25.49
27)		1,2-Dichloroethane	0.925	0.880	0.892	0.841	0.887	0.829	0.876	4.03
28)	M	Trichloroethene	0.477	0.474	0.489	0.480	0.528	0.496	0.491	4.07
29)		1,2-Dichloropropane	0.611	0.573	0.595	0.586	0.652	0.609	0.604	4.55
30)		Bromodichloromethan	0.911	1.016	1.049	1.056	1.169	1.057	1.043	7.95
31)		Dibromomethane	0.476	0.526	0.553	0.538	0.584	0.549	0.538	6.70
32)		c-1,3-Dichloroprope	0.465	0.628	0.699	0.740	0.901	0.872	0.717	22.48
33)		4-Methyl-2-Pentanon	0.932	1.031	1.204	1.199	1.337	1.202	1.151	12.58
34)	S	Toluene-d8	0.703	0.699	0.744	0.717	0.747	0.756	0.728	3.36
35)	M	Toluene	1.485	1.521	1.603	1.563	1.712	1.565	1.575	4.97
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.472	0.726	0.846	0.962	1.176	1.116	0.883	29.57
38)		1,1,2-Trichloroetha	0.780	0.827	0.803	0.802	0.848	0.766	0.804	3.71
39)		1,3-Dichloropropane	1.119	1.216	1.309	1.327	1.405	1.254	1.272	7.79
40)		Tetrachloroethene	0.954	0.905	0.887	0.898	0.917	0.815	0.896	5.11
41)		2-Hexanone		0.684	0.852	0.966	1.082	0.981	0.913	16.64
42)		Dibromochloromethan	0.945	1.103	1.131	1.211	1.360	1.219	1.161	11.97
43)	t	1,2-Dibromoethane	1.002	1.187	1.192	1.226	1.324	1.187	1.186	8.83
44)		Chlorobenzene	1.611	1.653	1.628	1.653	1.777	1.575	1.649	4.19
45)		1,1,1,2-Tetrachloro	0.652	0.738	0.797	0.824	0.903	0.814	0.788	10.81
46)	T	Ethylbenzene	2.518	3.047	3.153	3.185	3.351	2.786	3.007	10.10
47)	T	p,&m-Xylene	2.057	2.505	2.423	2.454	2.462	1.898	2.300	11.13
48)	T	o-Xylene	1.838	2.397	2.449	2.541	2.708	2.386	2.386	12.32
49)		Styrene	0.964	1.506	1.520	1.609	1.828	1.677	1.517	19.49
50)		Bromoform	0.639	0.838	0.852	0.967	1.151	1.050	0.916	19.68

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	2.060	2.746	3.181	3.210	3.328	2.883	2.901	16.08
52)	M	1,1,2,2-Tetrachloro	1.903	1.936	1.708	1.707	1.878	1.743	1.813	5.76
53)	S	4-Bromofluorobenzen	0.397	0.420	0.424	0.429	0.428	0.441	0.423	3.44
54)		Benzyl Chloride	0.703	0.875	0.991	1.431	2.180	2.137	1.386	46.52
55)		1,2,3-Trichloroprop	0.451	0.499	0.572	0.577	0.611	0.572	0.547	10.88
56)		n-Propyl Benzene	2.373	2.932	3.658	3.803	4.006	3.344	3.353	18.19
57)		Bromobenzene	1.375	1.559	1.904	1.896	2.085	1.864	1.781	14.69
58)		4-Ethyl Toluene	2.293	3.022	3.048	3.232	3.211	2.797	2.934	11.96
59)	T	1,3,5-Trimethylbenz	2.265	2.910	2.503	2.549	2.832	2.463	2.587	9.34
60)		2-Chlorotoluene	2.375	2.501	2.832	2.930	2.830	2.473	2.657	8.80
61)		4-Chlorotoluene	1.704	1.833	2.399	2.459	2.653	2.357	2.234	16.87
62)		tert-Butylbenzene	1.508	1.917	2.293	2.398	2.540	2.306	2.160	17.63
63)		1,2,4-Trimethylbenz	1.872	2.597	2.468	2.525	2.705	2.392	2.426	12.04
64)		sec-Butylbenzene	2.020	2.649	3.213	3.315	3.443	2.932	2.929	18.06
65)		p-Isopropyltoluene	1.100	1.633	2.170	2.310	2.406	2.133	1.959	25.44
66)		1,3-Dichlorobenzene	1.269	1.420	1.298	1.339	1.493	1.354	1.362	6.05
67)		1,4-Dichlorobenzene	1.282	1.323	1.250	1.318	1.479	1.342	1.332	5.92
68)		n-Butylbenzene	1.108	1.505	2.129	2.225	2.431	2.129	1.921	26.26
69)		1,2-Dichlorobenzene	1.300	1.355	1.207	1.229	1.398	1.271	1.294	5.67
70)		1,2-Dibromo-3-chlor	0.169	0.172	0.267	0.338	0.420	0.412	0.296	37.89
71)		1,2,4-Trichlorobenz	0.391	0.539	0.592	0.681	0.855	0.786	0.641	26.50
72)		Hexachlorobutadiene	0.746	0.783	0.621	0.717	0.796	0.708	0.729	8.66

= Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Initial Calibration

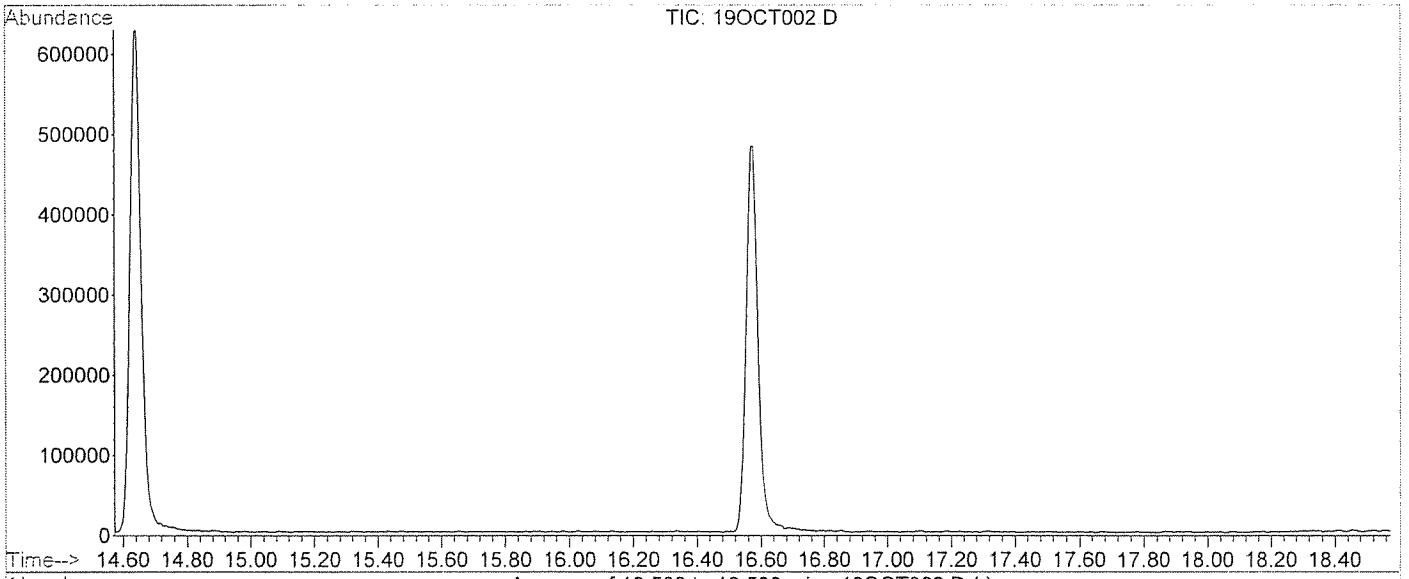
Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

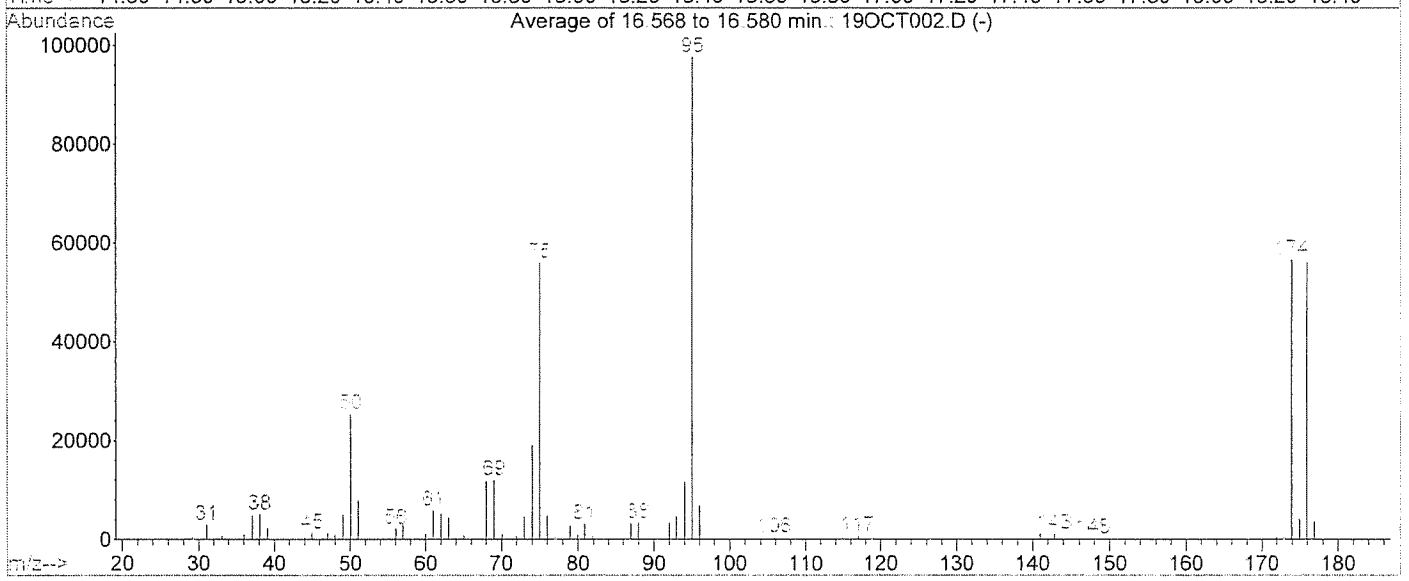
		Compound	1	5	10	25	100	250	Avg	%RSD	
1)	I	Bromochloromethane	----------ISTD----------								
2)		Propene	2.277	1.830	1.774	1.823	1.828	1.234	1.794	18.50	
3)		isobutane		0.087	0.110	0.127	0.121	0.080	0.105	19.74	
4)		1,3-Butadiene	1.817	1.709	1.696	1.828	1.922	1.381	1.725	10.92	
5)		Methanol	1.050	0.294	0.153	0.092	0.082	0.062	0.289	~~132.38~~	NA
6)		Acetaldehyde		0.935	0.827	0.785	0.778	0.528	0.771	19.41	
7)		Ethanol		0.477	0.736	0.674	0.739	0.487	0.623	21.06	
8)		Vinyl Bromide	0.800	0.930	0.948	0.977	1.030	0.782	0.911	10.90	
9)		Isopropanol	2.301	3.186	3.723	3.850	4.077	2.848	3.331	20.34	
10)		Acrolein	0.452	0.646	0.721	0.785	0.823	0.594	0.670	20.37	
11)		t-Butanol	2.359	3.023	3.319	3.654	3.936	2.306	3.100	21.59	
12)		Allyl Chloride	2.042	2.355	2.435	2.561	2.732	1.959	2.347	12.71	
13)		Acrylonitrile	0.714	1.663	1.677	1.983	1.913	1.380	1.555	29.83	
14)		t-Butyl methyl ethe	4.635	5.110	5.491	5.810	5.948	4.084	5.180	13.89	
15)		n-Hexane	3.251	3.746	3.972	4.072	4.035	2.856	3.655	13.57	
16)		Isopropyl ether	6.232	7.172	7.790	8.063	7.771	5.184	7.035	15.90	
17)		t-Butyl ethyl ether	1.648	2.050	2.255	2.447	2.505	1.824	2.122	16.17	
18)		Ethyl Acetate		0.467	0.544	0.560	0.591	0.432	0.519	12.87	
19)		2,2-Dichloropropane	2.754	3.053	3.259	3.482	3.301	2.238	3.014	15.07	
20)		Tetrahydrofuran	0.710	0.851	0.934	1.006	1.015	0.732	0.875	15.22	
21)		Cyclohexane	3.246	3.844	4.014	4.123	4.160	2.938	3.721	13.67	
22)		2,2,4-Trimethylpent	1.120	1.296	1.336	1.341	1.280	0.858	1.205	E1 15.63	
23)	I	1,4-Difluorobenzene	----------ISTD----------								
24)	S	1,2-Dichloroethane-	0.374	0.364	0.373	0.362	0.373	0.382	0.371	1.98	
25)		t-Amyl methyl ether	0.956	1.076	1.155	1.231	1.424	1.336	1.196	14.31	
26)		Heptane	0.438	0.484	0.495	0.489	0.548	0.522	0.496	7.51	
27)		1,4-Dioxane	0.186	0.266	0.313	0.321	0.359		0.289	22.97	
~~28)~~		~~2-chloroethylvinyle~~		~~0.002~~	~~0.007~~	~~0.010~~	~~0.014~~	~~0.015~~	~~0.010~~	~~56.21~~	NA
29)	S	Toluene-d8	0.696	0.699	0.735	0.714	0.744	0.756	0.724	3.40	
30)		Chlorobenzene-d5	----------ISTD----------								
31)		Cyclohexanone		0.601	0.880	0.982	1.055	1.018	0.907	20.17	
32)	S	4-Bromofluorobenzen	0.673	0.729	0.736	0.754	0.781	0.914	0.765	10.65	
33)		Dicyclopentadiene		0.013	0.026	0.032	0.035	0.035	0.028	~~32.25~~	NA
34)		Naphthalene		1.158	1.314	1.599	2.045	1.852	1.594	23.04	
35)		1,2,3-Trichlorobenz				0.000	0.004	0.004	0.003	~~71.56~~	NA

DT 9/2/11

#) = Out of Range

Data File : D:\GCMSB\111017\19OCT002.D Vial: 16
Acq On : 19 Oct 2011 3:46 Operator: DT
Sample : BFB Inst : GC/MS 597
Misc : 150ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	25349	PASS
75	95	30	60	57.3	55904	PASS
95	95	100	100	100.0	97579	PASS
96	95	5	9	7.0	6815	PASS
173	174	0.00	2	0.8	453	PASS
174	95	50	100	58.0	56576	PASS
175	174	5	9	7.1	4018	PASS
176	174	95	101	99.0	56037	PASS
177	176	5	9	6.3	3542	PASS

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT003.D Vial: 16
Acq On : 19 Oct 2011 4:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	79	0.00
2		Dichlorodifluoromethane (12	6.332	7.581	-19.7	90	0.00
3		Chloromethane	2.441	2.779	-13.8	86	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	5.768	6.804	-18.0	89	0.00
5		Vinyl Chloride	2.362	2.665	-12.8	86	0.00
6		Bromomethane	1.030	1.192	-15.7	90	0.00
7		Chloroethane	1.034	1.187	-14.8	90	0.00
8		Trichlorofluoromethane (11)	5.891	6.939	-17.8	89	0.00
9	M	1,1-Dichloroethene	3.860	3.818	1.1	74	0.00
10		Carbon Disulfide	4.977	4.985	-0.2	76	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	2.736	2.893	-5.7	80	0.00
12		Acetone	4.127	4.343	-5.2	76	0.00
13	M	Methylene Chloride	1.661	1.605	3.4	75	0.00
14		t-1,2-Dichloroethene	1.743	1.741	0.1	77	0.00
15		1,1-Dichloroethane	4.247	4.321	-1.7	77	0.00
16		Vinyl Acetate	7.338	7.160	2.4	69	0.00
17		c-1,2-Dichloroethene	1.862	1.815	2.5	72	0.00
18		2-Butanone	0.864	0.883	-2.2	71	0.00
19		t-Butyl Methyl Ether	5.165	5.199	-0.7	75	0.00
20	t	Chloroform	4.562	4.744	-4.0	79	0.00
21		1,1,1-Trichloroethane	4.395	4.751	-8.1	84	0.00
22		1,1-Dichloropropene	3.265	3.356	-2.8	76	0.00
23	t	Carbon Tetrachloride	3.856	4.090	-6.1	82	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
25	T	Benzene	1.416	1.325	6.4	73	0.00
26	S	1,2-Dichloroethane-d4	0.425	0.410	3.5	86	0.00
27		1,2-Dichloroethane	0.876	0.913	-4.2	81	0.00
28	M	Trichloroethene	0.491	0.454	7.5	74	0.00
29		1,2-Dichloropropane	0.604	0.536	11.3	71	0.00
30		Bromodichloromethane	1.043	1.045	-0.2	79	0.00
31		Dibromomethane	0.538	0.577	-7.2	83	0.00
32		c-1,3-Dichloropropene	0.717	0.645	10.0	73	0.00
33		4-Methyl-2-Pentanone	1.151	1.029	10.6	68	0.00
34	S	Toluene-d8	0.728	0.651	10.6	69	0.00
35	M	Toluene	1.575	1.429	9.3	71	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	74	0.00
37		t-1,3-Dichloropropene	0.883	0.863	2.3	75	0.00
38		1,1,2-Trichloroethane	0.804	0.823	-2.4	76	0.00
39		1,3-Dichloropropane	1.272	1.316	-3.5	74	0.00
40		Tetrachloroethene	0.896	0.923	-3.0	77	0.00
41		2-Hexanone	0.913	0.772	15.4	67	0.00
42		Dibromochloromethane	1.161	1.188	-2.3	77	0.00
43	t	1,2-Dibromoethane	1.186	1.174	1.0	73	0.00
44		Chlorobenzene	1.649	1.622	1.6	74	0.00
45		1,1,1,2-Tetrachloroethane	0.788	0.892	-13.2	83	0.00
46	T	Ethylbenzene	3.007	3.046	-1.3	71	0.00
47	T	p,&m-Xylene	2.300	2.539	-10.4	77	0.00
48	T	o-Xylene	2.386	2.370	0.7	71	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT003.D Vial: 16
Acq On : 19 Oct 2011 4:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.517	1.463	3.6	71	0.00
50		Bromoform	0.916	0.877	4.3	76	0.00
51		Isopropyl benzene	2.901	3.335	-15.0	77	0.00
52	M	1,1,2,2-Tetrachloroethane	1.813	1.779	1.9	77	0.00
53	S	4-Bromofluorobenzene	0.423	0.485	-14.7	84	0.00
54		Benzyl Chloride	1.386	1.199	13.5	89	0.00
55		1,2,3-Trichloropropane	0.547	0.617	-12.8	80	0.00
56		n-Propyl Benzene	3.353	3.616	-7.8	73	0.00
57		Bromobenzene	1.781	1.940	-8.9	75	0.00
58		4-Ethyl Toluene	2.934	2.956	-0.7	72	0.00
59	T	1,3,5-Trimethylbenzene	2.587	2.531	2.2	75	0.00
60		2-Chlorotoluene	2.657	3.403	-28.1	89	0.00
61		4-Chlorotoluene	2.234	2.465	-10.3	76	0.00
62		tert-Butylbenzene	2.160	2.354	-9.0	76	0.00
63		1,2,4-Trimethylbenzene	2.426	2.661	-9.7	80	0.00
64		sec-Butylbenzene	2.929	3.227	-10.2	74	0.00
65		p-Isopropyltoluene	1.959	2.247	-14.7	76	0.00
66		1,3-Dichlorobenzene	1.362	1.391	-2.1	79	0.00
67		1,4-Dichlorobenzene	1.332	1.351	-1.4	80	0.00
68		n-Butylbenzene	1.921	2.254	-17.3	78	0.00
69		1,2-Dichlorobenzene	1.294	1.376	-6.3	84	0.00
70		1,2-Dibromo-3-chloropropane	0.296	0.259	12.5	72	0.00
71		1,2,4-Trichlorobenzene	0.641	0.492	23.2	61	0.00
72		Hexachlorobutadiene	0.729	0.724	0.7	86	0.00

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT003.D Vial: 16
Acq On : 19 Oct 2011 4:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Multiple Level Calibration

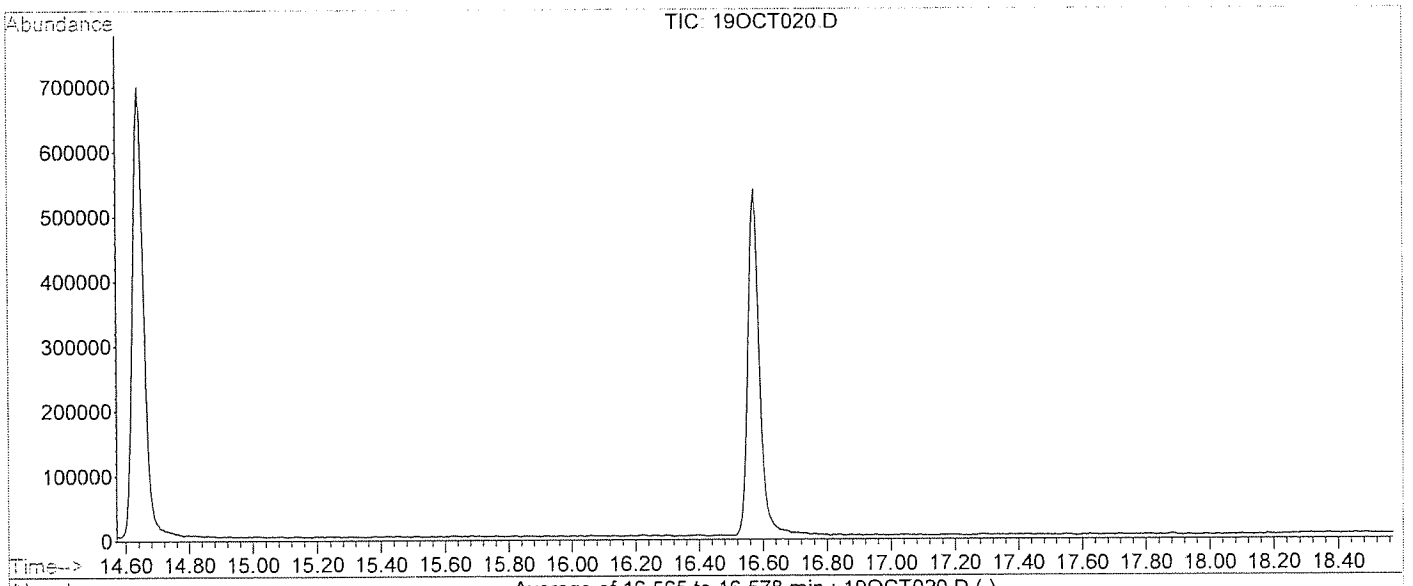
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

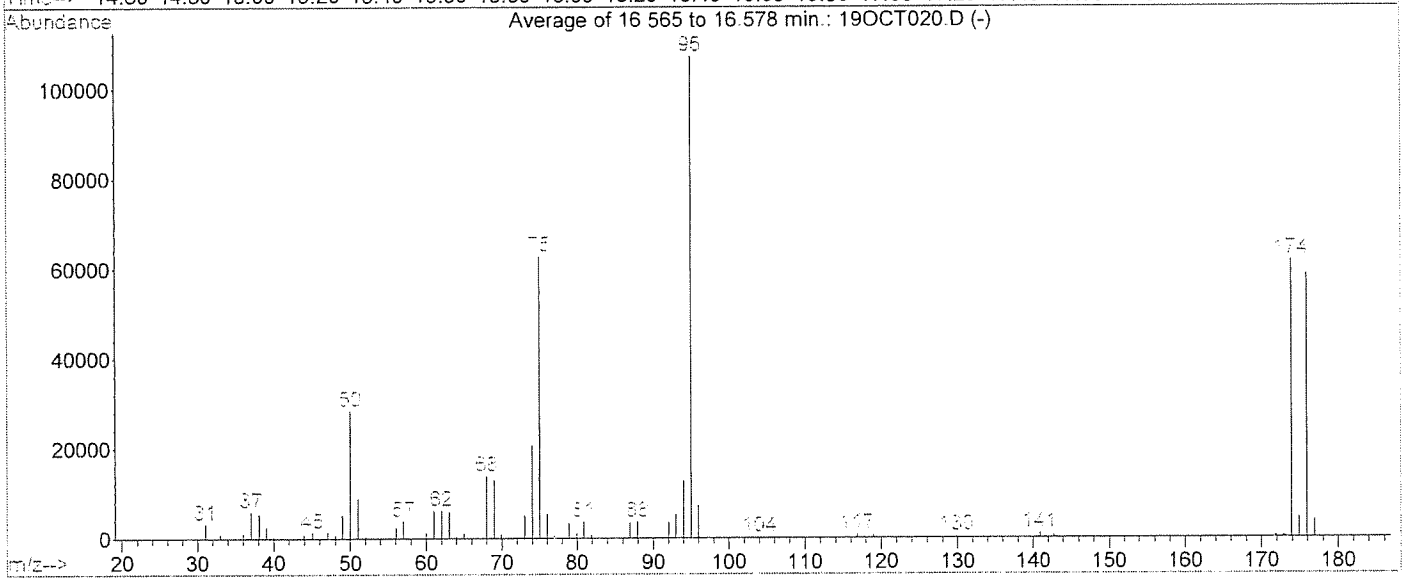
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	79	0.00
2		Propene	1.794	1.832	-2.1	82	0.02
3		isobutane	0.105	0.121	-15.2	88	0.02
4		1,3-Butadiene	1.725	1.885	-9.3	88	0.02
5		Methanol	0.289	0.228	21.1	118	0.02
6		Acetaldehyde	0.771	0.861	-11.7	83	0.02
7		Ethanol	0.623	0.696	-11.7	75	0.01
8		Vinyl Bromide	0.911	0.813	10.8	68	0.01
9		Isopropanol	3.331	3.122	6.3	67	0.01
10		Acrolein	0.670	0.604	9.9	67	0.02
11		t-Butanol	3.100	3.132	-1.0	75	0.14
12		Allyl Chloride	2.347	2.129	9.3	69	0.01
13		Acrylonitrile	1.555	1.494	3.9	71	0.02
14		t-Butyl methyl ether	5.180	5.199	-0.4	75	0.01
15		n-Hexane	3.655	3.355	8.2	67	0.01
16		Isopropyl ether	7.035	6.674	5.1	68	0.00
17		t-Butyl ethyl ether	2.122	2.193	-3.3	77	0.00
18		Ethyl Acetate	0.519	0.480	7.5	70	0.01
19		2,2-Dichloropropane	3.014	3.535	-17.3	86	0.00
20		Tetrahydrofuran	0.875	0.853	2.5	73	0.02
21		Cyclohexane	3.721	3.362	9.6	67	0.01
22		2,2,4-Trimethylpentane	12.053	12.078	-0.2	72	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
24	S	1,2-Dichloroethane-d4	0.371	0.412	-11.1	87	0.00
25		t-Amyl methyl ether	1.196	1.159	3.1	79	0.01
26		Heptane	0.496	0.457	7.9	72	0.00
27		1,4-Dioxane	0.289	0.280	3.1	70	0.00
28		2-chloroethylvinylether	0.010	0.007	30.0	77	0.00
29	S	Toluene-d8	0.724	0.648	10.5	69	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	74	0.00
31		Cyclohexanone	0.907	0.808	10.9	68	0.00
32	S	4-Bromofluorobenzene	0.765	0.808	-5.6	81	0.01
33		Dicyclopentadiene	0.028	0.028	0.0	79	0.00
34		Naphthalene	1.594	1.014	36.4#	57	0.00
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : D:\GCMSB\111017\19OCT020.D
Acq On : 19 Oct 2011 18:02
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.5	28469	PASS
75	95	30	60	58.5	62712	PASS
95	95	100	100	100.0	107269	PASS
96	95	5	9	6.8	7335	PASS
173	174	0.00	2	0.7	445	PASS
174	95	50	100	57.5	61680	PASS
175	174	5	9	7.2	4421	PASS
176	174	95	101	95.0	58616	PASS
177	176	5	9	6.7	3917	PASS

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT021.D Vial: 16
Acq On : 19 Oct 2011 18:45 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	111	0.00
2		Dichlorodifluoromethane (12	6.332	6.486	-2.4	107	-0.02
3		Chloromethane	2.441	2.367	3.0	102	-0.02
4		1,2-Cl-1,1,2,2-F ethane (11	5.768	5.702	1.1	104	-0.02
5		Vinyl Chloride	2.362	2.214	6.3	100	-0.02
6		Bromomethane	1.030	1.011	1.8	107	0.00
7		Chloroethane	1.034	0.982	5.0	104	0.00
8		Trichlorofluoromethane (11)	5.891	6.368	-8.1	114	0.00
9	M	1,1-Dichloroethene	3.860	3.699	4.2	100	-0.02
10		Carbon Disulfide	4.977	5.126	-3.0	109	-0.02
11		1,1,2-Cl 1,2,2-F ethane (11	2.736	2.709	1.0	105	-0.02
12		Acetone	4.127	4.662	-13.0	113	0.00
13	M	Methylene Chloride	1.661	1.729	-4.1	113	-0.02
14		t-1,2-Dichloroethene	1.743	1.751	-0.5	107	-0.02
15		1,1-Dichloroethane	4.247	4.504	-6.1	112	0.00
16		Vinyl Acetate	7.338	7.741	-5.5	104	0.00
17		c-1,2-Dichloroethene	1.862	1.854	0.4	103	0.00
18		2-Butanone	0.864	0.866	-0.2	97	0.00
19		t-Butyl Methyl Ether	5.165	4.490	13.1	90	0.00
20	t	Chloroform	4.562	4.705	-3.1	109	0.00
21		1,1,1-Trichloroethane	4.395	4.434	-0.9	109	0.00
22		1,1-Dichloropropene	3.265	3.191	2.3	101	0.00
23	t	Carbon Tetrachloride	3.856	3.847	0.2	107	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
25	T	Benzene	1.416	1.560	-10.2	107	0.00
26	S	1,2-Dichloroethane-d4	0.425	0.447	-5.2	116	0.00
27		1,2-Dichloroethane	0.876	1.054	-20.3	116	0.00
28	M	Trichloroethene	0.491	0.462	5.9	93	0.00
29		1,2-Dichloropropane	0.604	0.626	-3.6	103	0.00
30		Bromodichloromethane	1.043	1.172	-12.4	110	0.00
31		Dibromomethane	0.538	0.676	-25.7	120	0.00
32		c-1,3-Dichloropropene	0.717	0.662	7.7	93	0.00
33		4-Methyl-2-Pentanone	1.151	1.209	-5.0	99	0.00
34	S	Toluene-d8	0.728	0.616	15.4	81	0.00
35	M	Toluene	1.575	1.522	3.4	93	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
37		t-1,3-Dichloropropene	0.883	0.879	0.5	96	0.00
38		1,1,2-Trichloroethane	0.804	0.938	-16.7	108	0.00
39		1,3-Dichloropropane	1.272	1.438	-13.1	102	0.00
40		Tetrachloroethene	0.896	0.967	-7.9	101	0.00
41		2-Hexanone	0.913	0.841	7.9	91	0.00
42		Dibromochloromethane	1.161	1.219	-5.0	100	0.00
43	t	1,2-Dibromoethane	1.186	1.236	-4.2	96	0.00
44		Chlorobenzene	1.649	1.678	-1.8	95	0.00
45		1,1,1,2-Tetrachloroethane	0.788	0.905	-14.8	105	0.00
46	T	Ethylbenzene	3.007	3.135	-4.3	92	0.00
47	T	p,&m-Xylene	2.300	2.603	-13.2	99	0.00
48	T	o-Xylene	2.386	2.347	1.6	89	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT021.D Vial: 16
Acq On : 19 Oct 2011 18:45 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.517	1.492	1.6	91	0.00
50		Bromoform	0.916	0.886	3.3	96	0.00
51		Isopropyl benzene	2.901	3.534	-21.8	103	0.00
52	M	1,1,2,2-Tetrachloroethane	1.813	2.087	-15.1	113	0.00
53	S	4-Bromofluorobenzene	0.423	0.464	-9.7	101	0.00
54		Benzyl Chloride	1.386	1.134	18.2	106	0.00
55		1,2,3-Trichloropropane	0.547	0.651	-19.0	105	0.00
56		n-Propyl Benzene	3.353	3.789	-13.0	96	0.00
57		Bromobenzene	1.781	2.221	-24.7	108	0.00
58		4-Ethyl Toluene	2.934	2.980	-1.6	90	0.00
59	T	1,3,5-Trimethylbenzene	2.587	2.635	-1.9	97	0.00
60		2-Chlorotoluene	2.657	3.650	-37.4#	119	0.00
61		4-Chlorotoluene	2.234	2.272	-1.7	88	0.00
62		tert-Butylbenzene	2.160	2.249	-4.1	91	0.00
63		1,2,4-Trimethylbenzene	2.426	2.699	-11.3	101	0.00
64		sec-Butylbenzene	2.929	3.348	-14.3	96	0.00
65		p-Isopropyltoluene	1.959	2.145	-9.5	91	0.00
66		1,3-Dichlorobenzene	1.362	1.456	-6.9	104	0.00
67		1,4-Dichlorobenzene	1.332	1.363	-2.3	101	0.00
68		n-Butylbenzene	1.921	2.166	-12.8	94	0.00
69		1,2-Dichlorobenzene	1.294	1.369	-5.8	105	0.00
70		1,2-Dibromo-3-chloropropane	0.296	0.229	22.6	79	0.00
71		1,2,4-Trichlorobenzene	0.641	0.391	39.0#	61	0.00
72		Hexachlorobutadiene	0.729	0.644	11.7	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT021.D
Acq On : 19 Oct 2011 18:45
Sample : TO15 CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	110	0.00
2		Propene	1.794	1.603	10.6	99	0.02
3		isobutane	0.105	0.118	-12.4	119	0.00
4		1,3-Butadiene	1.725	1.564	9.3	101	0.01
5		Methanol	0.289	0.193	NA ~~33.2#~~	~~138~~	0.01
6		Acetaldehyde	0.771	0.746	3.2	99	0.01
7		Ethanol	0.623	0.652	-4.7	97	0.00
8		Vinyl Bromide	0.911	0.651	28.5	75	0.01
9		Isopropanol	3.331	3.285	1.4	97	0.00
10		Acrolein	0.670	0.626	6.6	95	0.01
11		t-Butanol	3.100	2.848	8.1	94	0.13
12		Allyl Chloride	2.347	2.242	4.5	101	0.00
13		Acrylonitrile	1.555	1.584	-1.9	104	0.01
14		t-Butyl methyl ether	5.180	4.521	12.7	90	0.01
15		n-Hexane	3.655	3.320	9.2	92	0.00
16		Isopropyl ether	7.035	7.144	-1.5	101	0.00
17		t-Butyl ethyl ether	2.122	1.934	8.9	94	0.00
18		Ethyl Acetate	0.519	0.459	11.6	93	0.00
19		2,2-Dichloropropane	3.014	3.424	-13.6	115	0.00
20		Tetrahydrofuran	0.875	0.787	10.1	93	0.01
21		Cyclohexane	3.721	3.423	8.0	94	0.01
22		2,2,4-Trimethylpentane	12.053	12.636	-4.8	104	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
24	S	1,2-Dichloroethane-d4	0.371	0.473	-27.5	124	0.00
25		t-Amyl methyl ether	1.196	1.188	0.7	100	0.00
26		Heptane	0.496	0.499	-0.6	98	0.00
27		1,4-Dioxane	0.289	0.292	-1.0	91	0.00
28		2-chloroethylvinylether	0.010	0.013	NA ~~-30.0~~	~~185#~~	0.00
29	S	Toluene-d8	0.724	0.614	15.2	81	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
31		Cyclohexanone	0.907	0.910	-0.3	96	0.01
32	S	4-Bromofluorobenzene	0.765	0.793	-3.7	100	0.00
33		Dicyclopentadiene	0.028	0.032	-14.3	113	0.00
34		Naphthalene	1.594	0.846	NA ~~-46.9#~~	~~60~~	0.01
35		1,2,3-Trichlorobenzene	0.003	0.000	~~100.0#~~	0#	-22.26#

10/20/11

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AirTECHNOLOGY
Laboratories, Inc.

November 22, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – SSD System; E742
Lab Number: C110802-01/02

Enclosed are results for sample(s) received 11/08/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Isopropanol recovery in the continuing calibration verification was high. IPA was found at trace levels in C110802-02/OC_SSD_B-17_110811.
- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

Standard ■ 48 hours ☐
Same Day ☐ 72 hours ☐
24 hours ☐ 96 hours ☐
Other:

DELIVERABLES

EDD ■
EDF ☐
Level 3 ☐
Level 4 ☐

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	E742
Project Name:	Omega - SSD System
Report To:	Ken Hewlett
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	khewlett@demaximis.com

BILLING

P.O. No.:
Bill to: de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 (TAL 2.4)					
C110802-01	OC_SSD_B-8_110811	11/8/2011	1030	Summa	Air	No/C	X					
↓ -02	OC_SSD_B-17_110811	11/8/2011	1050	Summa	Air	No/C	X					

AUTHORIZATION TO PERFORM WORK: Carlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 11/8/11	1348
SAMPLED BY: Carlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 11/8/11	1348
RELINQUISHED BY: [signature]	DATE/TIME: 11/8/11 1348	RECEIVED BY: DON THANGSON	DATE/TIME: 11/8/11 1348
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SDD System
Project No.: E742
Date Received: 11/08/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110802-01			C110802-02								
Client Sample I.D.:	OC_SSD_B-8_110811			OC_SSD_B-17_110811								
Date Sampled:	11/08/11			11/08/11								
Date Analyzed:	11/21/11			11/19/11								
QC Batch No.:	111120MS2A1			111119MS2A1								
Analyst Initials:	DT			DT								
Dilution Factor:	3.7			1.7								
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv						
Dichlorodifluoromethane (12)	1.2 J	3.7	0.17	0.79 J	1.7	0.083						
Chloromethane	ND	7.3	1.2	0.85 J	3.5	0.58						
1,2-Cl-1,1,2,2-F ethane (114)	ND	3.7	0.47	ND	1.7	0.22						
Vinyl Chloride	ND	3.7	0.81	ND	1.7	0.39						
Bromomethane	ND	3.7	0.41	ND	1.7	0.19						
Chloroethane	ND	3.7	1.3	ND	1.7	0.63						
Trichlorofluoromethane (11)	89	3.7	1.5	ND	1.7	0.71						
1,1-Dichloroethene	220	3.7	0.39	ND	1.7	0.19						
Carbon Disulfide	ND	18	0.54	ND	8.7	0.26						
1,1,2-Cl 1,2,2-F ethane (113)	380	3.7	0.84	ND	1.7	0.40						
Acetone	17 J	18	1.1	17	8.7	0.55						
Methylene Chloride	ND	3.7	0.72	ND	1.7	0.34						
t-1,2-Dichloroethene	ND	3.7	0.59	ND	1.7	0.28						
1,1-Dichloroethane	ND	3.7	0.43	ND	1.7	0.21						
Vinyl Acetate	ND	18	0.64	ND	8.7	0.30						
c-1,2-Dichloroethene	ND	3.7	0.80	ND	1.7	0.38						
2-Butanone	ND	3.7	0.93	ND	1.7	0.44						
t-Butyl Methyl Ether (MTBE)	ND	3.7	0.73	ND	1.7	0.35						
Chloroform	8.8	3.7	0.51	ND	1.7	0.24						
1,1,1-Trichloroethane	ND	3.7	0.42	ND	1.7	0.20						
Carbon Tetrachloride	ND	3.7	0.42	ND	1.7	0.20						
Benzene	1.3 J	3.7	0.72	1.2 J	1.7	0.34						
1,2-Dichloroethane	ND	3.7	0.96	ND	1.7	0.46						
Trichloroethene	43	3.7	0.57	ND	1.7	0.27						
1,2-Dichloropropane	ND	3.7	0.46	ND	1.7	0.22						
Bromodichloromethane	ND	3.7	0.55	ND	1.7	0.26						
c-1,3-Dichloropropene	ND	3.7	0.82	ND	1.7	0.39						
4-Methyl-2-Pentanone	ND	3.7	0.17	ND	1.7	0.082						
Toluene	1.3 J	3.7	0.47	1.9	1.7	0.22						
t-1,3-Dichloropropene	ND	3.7	0.45	ND	1.7	0.21						
1,1,2-Trichloroethane	ND	3.7	0.75	ND	1.7	0.36						
Tetrachloroethene	680	3.7	0.41	2.0	1.7	0.20						
2-Hexanone	ND	3.7	0.37	ND	1.7	0.18						
Dibromochloromethane	ND	3.7	0.63	ND	1.7	0.30						
1,2-Dibromoethane	ND	3.7	0.48	ND	1.7	0.23						
Chlorobenzene	ND	3.7	0.53	ND	1.7	0.25						

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SDD System
Project No.: E742
Date Received: 11/08/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110802-01			C110802-02		
Client Sample I.D.:	OC_SSD_B-8_110811			OC_SSD_B-17_110811		
Date Sampled:	11/08/11			11/08/11		
Date Analyzed:	11/21/11			11/19/11		
QC Batch No.:	111120MS2A1			111119MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	3.7			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	3.7	0.11	ND	1.7	0.053
p,&m-Xylene	ND	3.7	0.84	0.81 J	1.7	0.40
o-Xylene	ND	3.7	0.51	0.30 J	1.7	0.24
Isopropanol	ND	18	2.5	2.8 J	8.7	1.2
n-Hexane	ND	18	0.92	ND	8.7	0.44
1,4-Dioxane	ND	18	2.4	ND	8.7	1.1
Total VOC's	1,400			28		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	81%	70-130%	91%	70-130%
Toluene-d8	102%	70-130%	87%	70-130%
4-Bromofluorobenzene	88%	70-130%	94%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 11/22/11
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SDD System
Project No.: E742
Date Received: 11/08/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110802-01			C110802-02		
Client Sample I.D.:	OC_SSD_B-8_110811			OC_SSD_B-17_110811		
Date Sampled:	11/08/11			11/08/11		
Date Analyzed:	11/21/11			11/19/11		
QC Batch No.:	111120MS2A1			111119MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	3.7			3.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	6.1 J	18	0.86	3.9 J	8.6	0.41
Chloromethane	ND	15	2.5	1.8 J	7.2	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	26	3.3	ND	12	1.6
Vinyl Chloride	ND	9.4	2.1	ND	4.5	0.99
Bromomethane	ND	14	1.6	ND	6.8	0.76
Chloroethane	ND	9.7	3.5	ND	4.6	1.7
Trichlorofluoromethane (11)	500	21	8.4	ND	9.8	4.0
1,1-Dichloroethene	880	15	1.6	ND	6.9	0.75
Carbon Disulfide	ND	57	1.7	ND	27	0.81
1,1,2-Cl 1,2,2-F ethane (113)	2,900	28	6.4	ND	13	3.1
Acetone	40 J	43	2.7	39	21	1.3
Methylene Chloride	ND	13	2.5	ND	6.1	1.2
t-1,2-Dichloroethene	ND	15	2.3	ND	6.9	1.1
1,1-Dichloroethane	ND	15	1.8	ND	7.1	0.84
Vinyl Acetate	ND	64	2.2	ND	31	1.1
c-1,2-Dichloroethene	ND	15	3.2	ND	6.9	1.5
2-Butanone	ND	11	2.7	ND	5.1	1.3
t-Butyl Methyl Ether (MTBE)	ND	13	2.6	ND	6.3	1.2
Chloroform	43	18	2.5	ND	8.5	1.2
1,1,1-Trichloroethane	ND	20	2.3	ND	9.5	1.1
Carbon Tetrachloride	ND	23	2.6	ND	11	1.3
Benzene	4.2 J	12	2.3	3.7 J	5.6	1.1
1,2-Dichloroethane	ND	15	3.9	ND	7.1	1.9
Trichloroethene	230	20	3.1	ND	9.4	1.5
1,2-Dichloropropane	ND	17	2.1	ND	8.1	1.0
Bromodichloromethane	ND	25	3.7	ND	12	1.8
c-1,3-Dichloropropene	ND	17	3.7	ND	7.9	1.8
4-Methyl-2-Pentanone	ND	15	0.71	ND	7.1	0.34
Toluene	5.1 J	14	1.8	7.1	6.6	0.84
t-1,3-Dichloropropene	ND	17	2.0	ND	7.9	0.97
1,1,2-Trichloroethane	ND	20	4.1	ND	9.5	1.9
Tetrachloroethene	4,600	25	2.8	13	12	1.3
2-Hexanone	ND	15	1.5	ND	7.1	0.72
Dibromochloromethane	ND	31	5.4	ND	15	2.6
1,2-Dibromoethane	ND	28	3.7	ND	13	1.8
Chlorobenzene	ND	17	2.4	ND	8.0	1.2

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SDD System
Project No.: E742
Date Received: 11/08/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110802-01			C110802-02		
Client Sample I.D.:	OC_SSD_B-8_110811			OC_SSD_B-17_110811		
Date Sampled:	11/08/11			11/08/11		
Date Analyzed:	11/21/11			11/19/11		
QC Batch No.:	111120MS2A1			111119MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	3.7			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	16	0.48	ND	7.6	0.23
p,&m-Xylene	ND	16	3.6	3.5 J	7.6	1.7
o-Xylene	ND	16	2.2	1.3 J	7.6	1.0
Isopropanol	ND	45	6.1	6.9 J	21	2.9
n-Hexane	ND	65	3.2	ND	31	1.5
1,4-Dioxane	ND	66	8.6	ND	31	4.1
Total VOC's	9,200			80		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	81%	70-130%	91%	70-130%
Toluene-d8	102%	70-130%	87%	70-130%
4-Bromofluorobenzene	88%	70-130%	94%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager

Date 11/22/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111119MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	11/19/11		11/19/11		11/19/11						
Data File ID:	19NOV006.D		19NOV004.D		19NOV013.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.3	113	11.4	114	1.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.2	112	11.1	111	1.3	70	130	30	Pass
Trichloroethene	0.0	10.0	10.3	103	10.0	100	2.7	70	130	30	Pass
Toluene	0.0	10.0	9.3	93	9.6	96	3.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.9	119	11.4	114	4.6	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 11/22/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111120MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	11/21/11		11/20/11		11/20/11						
Data File ID:	20NOV016.D		20NOV014.D		20NOV015.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.6	116	11.3	113	2.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.6	116	11.3	113	2.8	70	130	30	Pass
Trichloroethene	0.0	10.0	10.4	104	10.6	106	1.2	70	130	30	Pass
Toluene	0.0	10.0	11.0	110	11.2	112	2.4	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.7	87	8.4	84	2.7	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** _____

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111114\19NOV002.D
Tune Time : 18 Nov 2011 23:59

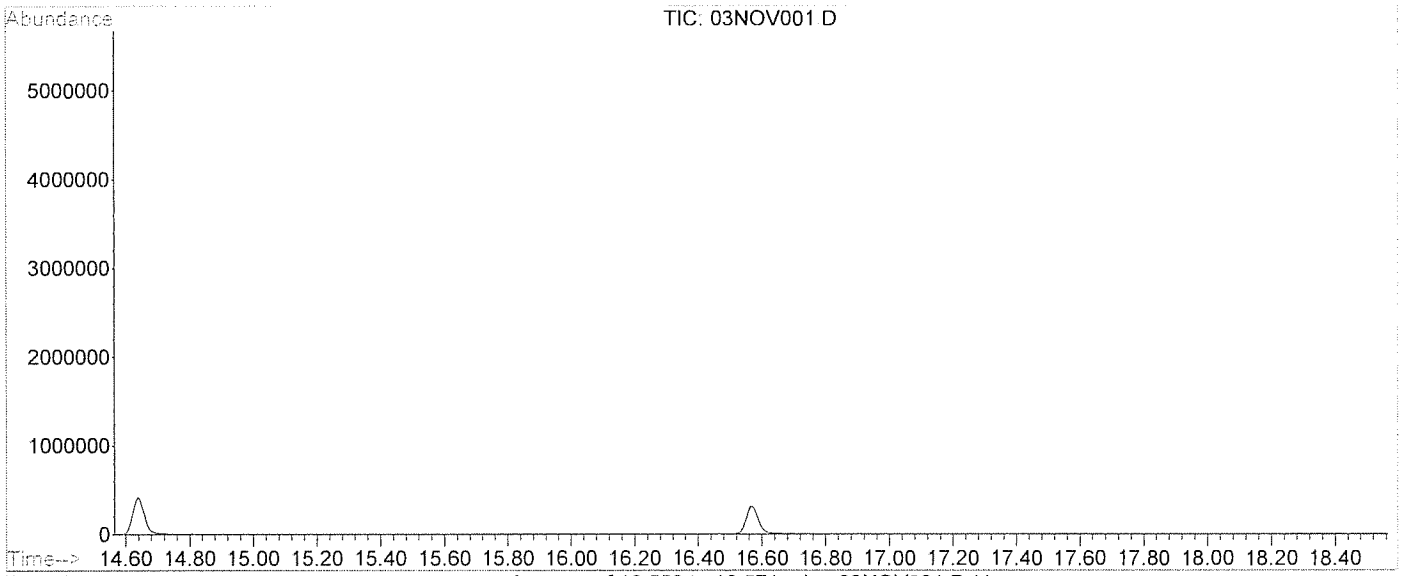
Daily Calibration File : D:\GCMSB\111114\19NOV003.D

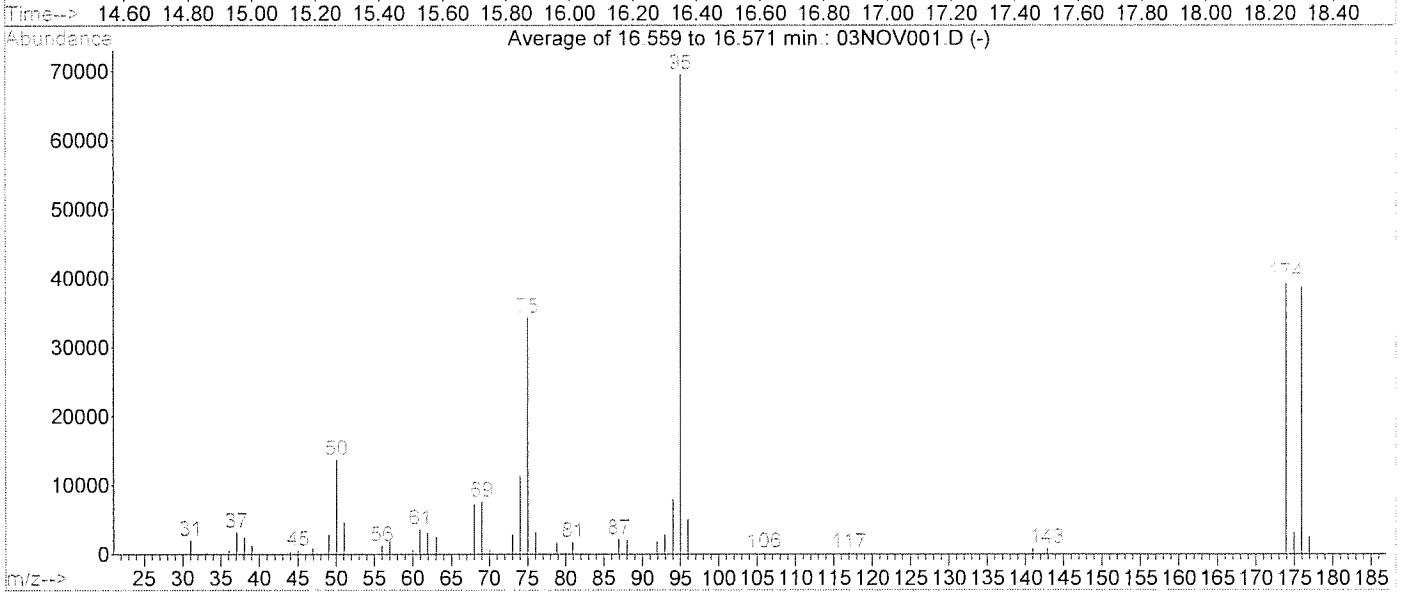
					Daily cali. I.S. response		
					40645	180551	117369
File	Sample	Surrogate Recovery %			Internal Standard Responses		
19NOV004	TO15 LCS	91	95	99	38205	177284	110984
19NOV006	METHOD BLANK	91	94	84	37617	173367	107622
19NOV013	TO15 LCSD	93	94	96	40536	180983	119973
19NOV017	C110802-02	91	87	94	43906	194671	112750
19NOV018	C110803-01	92	96	103	44898	196680	132117
19NOV019	C110803-02	97	91	106	41385	186641	114613
19NOV020	C110803-03	87	90	97	41439	195196	110981
19NOV021	C111001-01	91	96	100	41726	200265	139522
19NOV022	C111001-02	92	97	98	41480	198733	134609
19NOV023	C111001-03	91	98	96	42842	200509	127641

surrogate recovery limits 70-130%
Internal standard response limits 60-140%

t - fails 24hr time check * - fails criteria
Created:Tue Nov 22 08:49:43 2011

Data File : D:\GCMSB\111031\03NOV001.D Vial: 4
Acq On : 3 Nov 2011 13:53 Operator: VM
Sample : BFB Inst : GC/MS 597
Misc : 150ML (AFTER TRAP REPLACEMENT) Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm





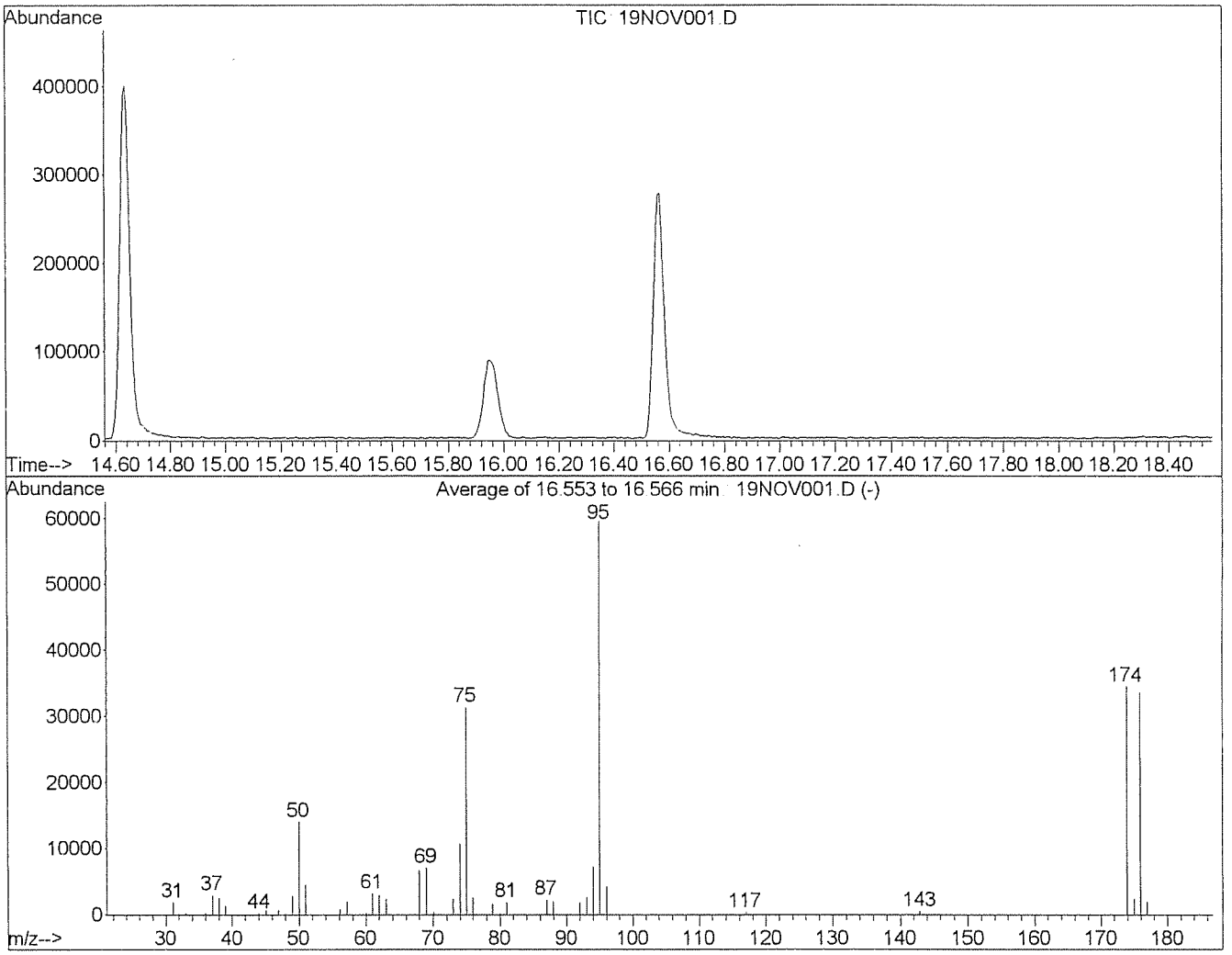
AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	13692	PASS
75	95	30	60	49.3	34251	PASS
95	95	100	100	100.0	69525	PASS
96	95	5	9	7.3	5045	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.5	39248	PASS
175	174	5	9	7.9	3117	PASS
176	174	95	101	98.7	38731	PASS
177	176	5	9	6.6	2572	PASS

BFB

Data File : D:\GCMSB\111114\19NOV001.D
Acq On : 18 Nov 2011 23:22
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00



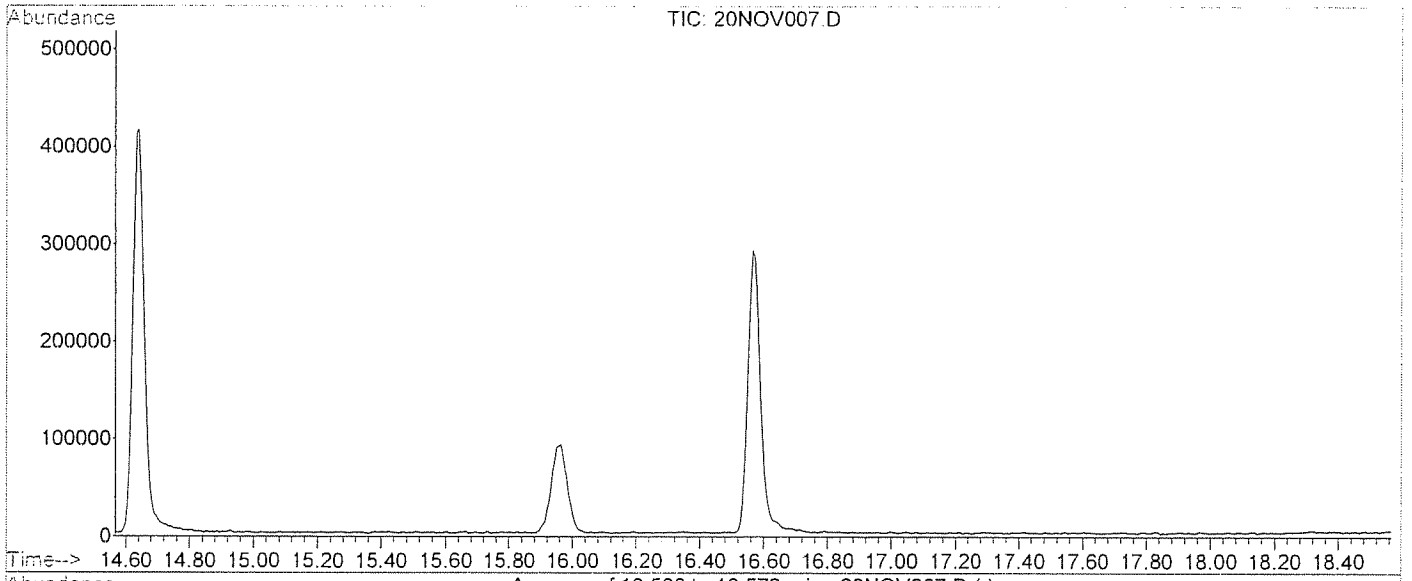
AutoFind: Scans 2200, 2201, 2202; Background Corrected with Scan 2190

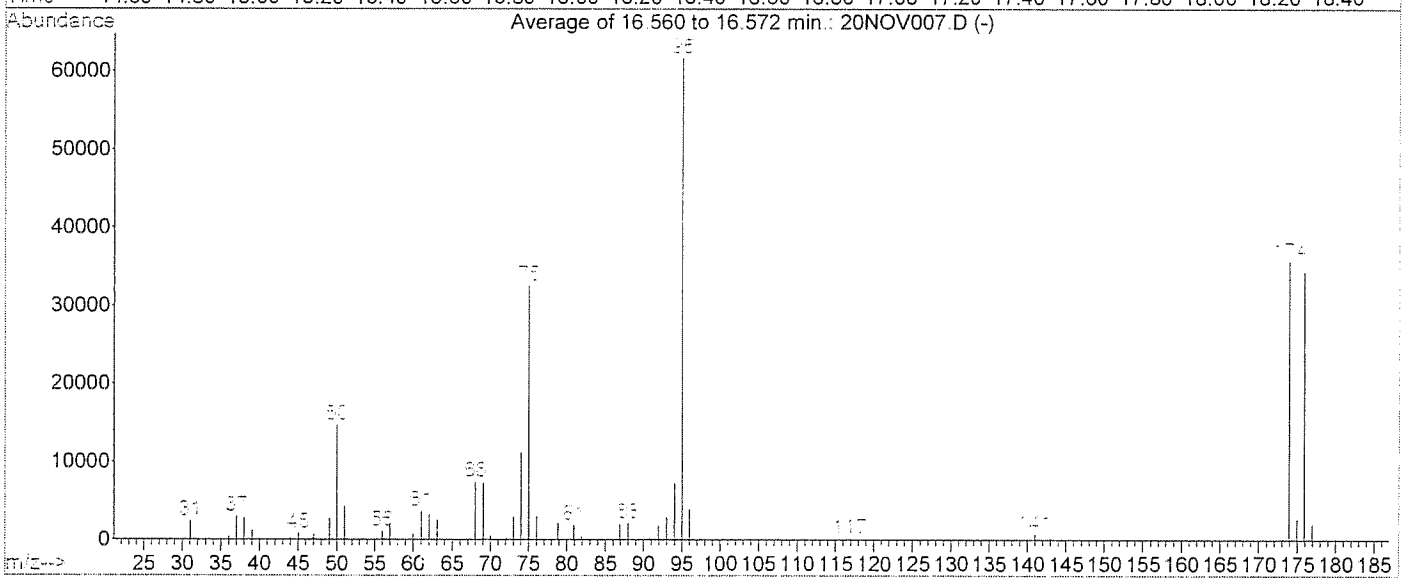
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	14051	PASS
75	95	30	60	52.6	31360	PASS
95	95	100	100	100.0	59675	PASS
96	95	5	9	7.3	4336	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	57.9	34536	PASS
175	174	5	9	7.2	2493	PASS
176	174	95	101	97.5	33667	PASS
177	176	5	9	6.0	2030	PASS

BFB

Data File : D:\GCMSB\111114\20NOV007.D
Acq On : 20 Nov 2011 17:24
Sample : BFB
Misc :
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111120.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 13
Operator: VM
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	14675	PASS
75	95	30	60	52.7	32531	PASS
95	95	100	100	100.0	61675	PASS
96	95	5	9	6.4	3919	PASS
173	174	0.00	2	0.5	178	PASS
174	95	50	100	57.8	35653	PASS
175	174	5	9	7.7	2735	PASS
176	174	95	101	96.4	34376	PASS
177	176	5	9	5.8	1986	PASS

20NOV007.D TO111120.M Sun Nov 20 22:22:20 2011 GCMSB

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	6.224	6.094	5.996	5.490	4.873	3.597	5.379	18.69
3)		Chloromethane	2.188	1.847	1.774	1.579	1.501	1.200	1.681	20.04
4)		1,2-Cl-1,1,2,2-F et	5.442	5.629	5.388	4.999	4.462	3.338	4.876	17.64
5)		Vinyl Chloride	1.645	1.715	1.627	1.452	1.376	1.125	1.490	14.73
6)		Bromomethane	1.470	0.715	1.206	0.745	1.110	0.591	0.973	35.16
7)		Chloroethane	1.104	1.079	1.016	1.214	0.918	0.733	1.011	16.58
8)		Trichlorofluorometh	6.426	6.153	6.005	5.573	5.119	3.985	5.543	16.08
9)	M	1,1-Dichloroethene	3.545	3.584	3.289	3.103	3.059	2.369	3.158	14.05
10)		Carbon Disulfide	5.645	5.413	4.908	4.526	4.412	3.376	4.713	17.27
11)		1,1,2-Cl 1,2,2-F et	3.264	3.069	2.784	2.569	2.531	1.973	2.698	16.87
12)		Acetone	5.168	4.583	3.760	3.571	3.532	2.590	3.867	23.26
13)	M	Methylene Chloride	1.853	1.687	1.586	1.452	1.426	1.124	1.521	16.45
14)		t-1,2-Dichloroethen	1.811	1.965	1.840	1.688	1.679	1.346	1.722	12.33
15)		1,1-Dichloroethane	4.175	3.945	3.725	3.504	3.247	2.423	3.503	17.73
16)		Vinyl Acetate	6.696	7.776	7.113	7.292	6.444	4.832	6.692	15.28
17)		c-1,2-Dichloroethen	1.909	2.044	1.936	1.888	1.701	1.292	1.795	15.06
18)		2-Butanone	0.806	0.945	0.943	0.874	0.875	0.664	0.851	12.36
19)		t-Butyl Methyl Ethe	6.111	5.746	5.162	4.937	5.008	4.160	5.187	13.12
20)	t	Chloroform	4.790	4.478	4.353	4.019	3.825	2.989	4.076	15.50
21)		1,1,1-Trichloroetha	4.497	4.186	3.720	3.824	3.984	3.237	3.908	10.99
22)		1,1-Dichloropropene	3.606	3.353	3.343	3.145	2.817	2.176	3.074	16.66
23)	t	Carbon Tetrachlorid	3.340	3.382	3.037	3.338	3.803	3.134	3.339	7.93
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.920	1.408	1.373	1.309	1.340	1.170	1.420	18.18
26)	S	1,2-Dichloroethane-	0.379	0.381	0.422	0.453	0.479	0.624	0.456	19.91
27)		1,2-Dichloroethane	0.772	0.696	0.747	0.700	0.745	0.639	0.717	6.72
28)	M	Trichloroethene	0.544	0.518	0.559	0.540	0.582	0.513	0.542	4.75
29)		1,2-Dichloropropane	0.498	0.485	0.507	0.496	0.530	0.470	0.498	4.11
30)		Bromodichloromethan	0.882	0.883	0.932	0.949	1.034	0.882	0.927	6.47
31)		Dibromomethane	0.542	0.581	0.562	0.550	0.566	0.482	0.547	6.33
32)		c-1,3-Dichloroprope	0.615	0.608	0.592	0.672	0.796	0.727	0.668	11.98
33)		4-Methyl-2-Pentanon	1.035	1.027	1.092	1.107	1.154	1.013	1.071	5.15
34)	S	Toluene-d8	0.857	0.849	0.861	0.852	0.865	0.867	0.858	0.81
35)	M	Toluene	1.867	1.499	1.566	1.516	1.557	1.367	1.562	10.60
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.583	0.668	0.659	0.763	1.008	0.955	0.773	22.31
38)		1,1,2-Trichloroetha	0.765	0.770	0.829	0.790	0.800	0.705	0.776	5.38
39)		1,3-Dichloropropane	1.276	1.219	1.267	1.197	1.212	1.073	1.207	6.04
40)		Tetrachloroethene	0.989	0.878	0.961	0.908	0.906	0.804	0.908	7.14
41)		2-Hexanone	0.568	0.671	0.786	0.819	0.818	0.736	0.733	13.45
42)		Dibromochloromethan	1.003	1.033	1.135	1.185	1.398	1.253	1.168	12.50
43)	t	1,2-Dibromoethane	1.129	1.075	1.231	1.203	1.253	1.105	1.166	6.25
44)		Chlorobenzene	1.677	1.539	1.738	1.640	1.650	1.482	1.621	5.78
45)		1,1,1,2-Tetrachloro	0.712	0.742	0.708	0.762	0.886	0.808	0.770	8.82
46)	T	Ethylbenzene	2.809	2.657	2.926	2.815	2.784	2.439	2.738	6.20
47)	T	p,&m-Xylene	2.672	2.170	2.458	2.262	2.153	1.695	2.235	14.75
48)	T	o-Xylene	3.044	2.297	2.543	2.389	2.343	2.000	2.436	14.24
49)		Styrene	1.302	1.411	1.625	1.591	1.558	1.397	1.481	8.69
50)		Bromoform	0.631	0.643	0.726	0.830	1.032	0.956	0.803	20.68

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	3.404	2.955	3.096	2.929	2.845	2.528	2.960	9.75
52)	M	1,1,2,2-Tetrachloro	1.704	1.633	1.680	1.595	1.583	1.378	1.595	7.29
53)	S	4-Bromofluorobenzen	0.342	0.350	0.370	0.366	0.371	0.374	0.362	3.59
54)		Benzyl Chloride	0.797	0.608	0.541	0.852	1.487	1.652	0.990	47.18
55)		1,2,3-Trichloroprop	0.558	0.565	0.598	0.581	0.584	0.530	0.569	4.24
56)		n-Propyl Benzene	4.237	3.487	3.697	3.493	3.303	2.749	3.494	13.93
57)		Bromobenzene	1.827	1.535	1.655	1.568	1.485	1.254	1.554	12.22
58)		4-Ethyl Toluene	3.409	3.070	3.168	2.981	3.081	2.697	3.068	7.60
59)	T	1,3,5-Trimethylbenz	3.695	2.576	2.681	2.530	2.272	1.875	2.605	23.32
60)		2-Chlorotoluene	3.207	2.578	2.680	2.656	2.429	2.320	2.645	11.64
61)		4-Chlorotoluene	2.691	2.007	2.236	2.194	2.118	1.853	2.183	13.04
62)		tert-Butylbenzene	2.853	2.419	2.532	2.389	2.265	2.055	2.419	11.06
63)		1,2,4-Trimethylbenz	3.277	2.831	2.705	2.609	2.539	2.197	2.693	13.25
64)		sec-Butylbenzene	3.470	2.980	3.250	3.070	2.913	2.558	3.040	10.22
65)		p-Isopropyltoluene	2.400	2.323	2.524	2.407	2.284	2.035	2.329	7.13
66)		1,3-Dichlorobenzene	1.889	1.309	1.482	1.422	1.437	1.296	1.473	14.74
67)		1,4-Dichlorobenzene	1.870	1.344	1.447	1.411	1.430	1.287	1.465	14.15
68)		n-Butylbenzene	2.418	2.003	2.136	2.088	2.004	1.785	2.072	10.03
69)		1,2-Dichlorobenzene	1.570	1.324	1.416	1.368	1.357	1.223	1.376	8.34
70)		1,2-Dibromo-3-chlor	0.207	0.229	0.230	0.289	0.335	0.340	0.272	21.35
71)		1,2,4-Trichlorobenz	0.878	0.558	0.786	0.802	0.765	0.733	0.754	14.24
72)		Hexachlorobutadiene	0.809	0.556	0.660	0.647	0.547	0.548	0.628	16.32

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111120.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Sun Nov 20 22:13:42 2011
Response via : Initial Calibration

Calibration Files
1 =20NOV008.D 5 =20NOV009.D 10 =20NOV010.D
25 =20NOV011.D 100 =20NOV012.D 250 =20NOV013.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	7.313	6.955	6.754	6.228	5.520	3.649	6.070	22.09
3)		Chloromethane	2.457	2.176	2.147	1.945	1.829	1.257	1.969	20.83
4)		1,2-Cl-1,1,2,2-F et	6.913	6.491	6.118	5.595	5.075	3.395	5.598	22.49
5)		Vinyl Chloride	1.959	1.952	1.928	1.780	1.688	1.163	1.745	17.48
6)		Bromomethane	1.611	0.860	1.476	0.859	1.090	0.858	1.126	30.08
7)		Chloroethane	1.074	1.269	1.190	1.134	1.051	0.756	1.079	16.42
8)		Trichlorofluorometh	7.030	6.926	6.708	6.207	5.677	3.998	6.091	18.76
9)	M	1,1-Dichloroethene	4.129	4.075	3.661	3.415	3.516	2.405	3.533	17.68
10)		Carbon Disulfide	6.432	6.318	5.306	5.006	4.974	3.445	5.247	20.77
11)		1,1,2-Cl 1,2,2-F et	3.363	3.402	2.979	2.739	2.773	1.953	2.868	18.49
12)		Acetone	5.590	5.007	4.537	4.314	3.684	2.402	4.256	26.15
13)	M	Methylene Chloride	1.928	1.872	1.716	1.618	1.590	1.129	1.642	17.36
14)		t-1,2-Dichloroethen	2.069	2.103	2.014	1.898	1.907	1.352	1.890	14.62
15)		1,1-Dichloroethane	4.586	4.613	4.342	4.066	3.783	2.536	3.988	19.52
16)		Vinyl Acetate	7.484	8.051	8.432	8.423	7.165	4.725	7.380	18.92
17)		c-1,2-Dichloroethen	2.048	2.229	2.158	2.013	1.909	1.312	1.945	16.96
18)		2-Butanone	0.785	1.051	0.992	1.020	0.971	0.666	0.914	16.74
19)		t-Butyl Methyl Ethe	6.333	6.365	6.012	5.849	5.723	4.144	5.738	14.32
20)	t	Chloroform	5.079	5.163	4.768	4.482	4.299	2.999	4.465	17.73
21)		1,1,1-Trichloroetha	5.032	4.960	4.765	4.604	4.489	3.234	4.514	14.62
22)		1,1-Dichloropropene	3.104	3.119	3.217	2.998	2.851	1.977	2.878	15.93
23)	t	Carbon Tetrachlorid	4.584	4.648	4.395	4.374	4.447	3.195	4.274	12.62
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.748	1.564	1.515	1.479	1.458	1.156	1.487	12.94
26)	S	1,2-Dichloroethane-	0.429	0.438	0.445	0.466	0.519	0.585	0.480	12.60
27)		1,2-Dichloroethane	0.869	0.854	0.872	0.858	0.834	0.655	0.824	10.16
28)	M	Trichloroethene	0.591	0.591	0.609	0.617	0.624	0.503	0.589	7.50
29)		1,2-Dichloropropane	0.559	0.610	0.587	0.597	0.590	0.475	0.570	8.68
30)		Bromodichloromethan	1.181	1.155	1.160	1.171	1.145	0.899	1.118	9.69
31)		Dibromomethane	0.495	0.538	0.593	0.588	0.562	0.447	0.537	10.57
32)		c-1,3-Dichloroprope	0.688	0.787	0.800	0.838	0.875	0.728	0.786	8.78
33)		4-Methyl-2-Pentanon	1.186	1.309	1.259	1.260	1.272	1.015	1.217	8.77
34)	S	Toluene-d8	0.775	0.812	0.757	0.769	0.830	0.836	0.796	4.24
35)	M	Toluene	1.741	1.704	1.433	1.459	1.621	1.308	1.544	11.05
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.842	1.004	1.198	1.219	1.226	1.014	1.084	14.37
38)		1,1,2-Trichloroetha	1.085	1.025	1.075	1.053	0.933	0.733	0.984	13.67
39)		1,3-Dichloropropane	1.459	1.248	1.471	1.453	1.311	1.033	1.329	12.90
40)		Tetrachloroethene	1.211	1.124	1.123	1.080	1.035	0.806	1.063	13.04
41)		2-Hexanone	0.713	0.888	1.006	1.028	0.995	0.777	0.901	14.61
42)		Dibromochloromethan	1.659	1.600	1.718	1.755	1.666	1.334	1.622	9.31
43)	t	1,2-Dibromoethane	1.496	1.515	1.620	1.577	1.458	1.143	1.468	11.56
44)		Chlorobenzene	2.288	2.099	1.803	1.770	1.889	1.473	1.887	14.96
45)		1,1,1,2-Tetrachloro	0.889	0.848	1.061	1.047	0.978	0.794	0.936	11.66
46)	T	Ethylbenzene	3.526	3.448	2.874	2.859	3.086	2.305	3.016	14.84
47)	T	p,&m-Xylene	3.132	2.866	2.512	2.482	2.414	1.688	2.516	19.46
48)	T	o-Xylene	3.156	2.993	2.712	2.704	2.624	1.964	2.692	15.24
49)		Styrene	1.695	1.911	1.646	1.673	1.815	1.386	1.687	10.56
50)		Bromoform	1.181	1.260	1.184	1.251	1.268	1.029	1.195	7.54

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111120.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Sun Nov 20 22:13:42 2011
Response via : Initial Calibration

Calibration Files
1 =20NOV008.D 5 =20NOV009.D 10 =20NOV010.D
25 =20NOV011.D 100 =20NOV012.D 250 =20NOV013.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	2.826	2.739	2.824	2.765	2.826	2.060	2.673	11.32
52)	M	1,1,2,2-Tetrachloro	2.598	2.482	2.005	2.010	1.852	1.439	2.065	20.56
53)	S	4-Bromofluorobenzen	0.354	0.360	0.369	0.376	0.383	0.368	0.368	2.79
54)		Benzyl Chloride	1.139	1.318	1.080	1.343	1.870	1.552	1.384	21.03
55)		1,2,3-Trichloroprop	0.619	0.598	0.640	0.635	0.627	0.503	0.603	8.50
56)		n-Propyl Benzene	3.313	3.365	3.492	3.509	3.479	2.484	3.274	12.05
57)		Bromobenzene	1.680	1.686	1.665	1.665	1.709	1.223	1.605	11.69
58)		4-Ethyl Toluene	3.710	3.987	3.330	3.509	3.482	2.564	3.430	14.03
59)	T	1,3,5-Trimethylbenz	3.917	4.110	3.647	3.523	3.096	2.348	3.440	18.56
60)		2-Chlorotoluene	3.421	3.358	3.313	2.930	2.686	2.263	2.995	15.30
61)		4-Chlorotoluene	2.302	1.966	2.226	2.456	2.506	1.927	2.230	10.87
62)		tert-Butylbenzene	2.849	2.863	2.954	2.918	2.742	2.103	2.738	11.67
63)		1,2,4-Trimethylbenz	3.685	3.838	3.374	3.385	3.023	2.280	3.264	17.11
64)		sec-Butylbenzene	3.485	3.360	3.474	3.508	3.247	2.353	3.238	13.72
65)		p-Isopropyltoluene	2.683	2.606	2.972	3.115	2.823	2.072	2.712	13.44
66)		1,3-Dichlorobenzene	2.009	1.959	1.618	1.644	1.652	1.264	1.691	15.96
67)		1,4-Dichlorobenzene	2.040	1.854	1.616	1.603	1.645	1.250	1.668	15.97
68)		n-Butylbenzene	2.783	2.639	3.017	3.174	2.725	1.983	2.720	15.14
69)		1,2-Dichlorobenzene	2.030	1.846	1.583	1.673	1.577	1.205	1.652	16.93
70)		1,2-Dibromo-3-chlor	0.427	0.441	0.539	0.602	0.517	0.420	0.491	14.95
71)		1,2,4-Trichlorobenz	0.716	0.794	1.122	1.406	1.067	0.702	0.968	28.83
72)		Hexachlorobutadiene	0.774	0.762	0.856	1.075	0.573	0.525	0.761	26.22

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL111103.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Tue Nov 22 07:58:06 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Propene	2.022	1.631	1.460	1.380	1.228	0.935	1.443	25.55
3)		isobutane		0.068	0.066	0.058	0.066	0.055	0.063	9.07
4)		1,3-Butadiene	1.153	1.120	1.006	0.980	0.922	0.787	0.995	13.43
5)		Methanol	3.404	0.986	0.263	0.270	0.064	0.041	0.838	~~155.57~~ NA
6)		Acetaldehyde		0.706	0.526	0.433	0.441	0.367	0.494	26.53
7)		Ethanol		0.691	0.558	0.560	0.529	0.442	0.556	16.05
8)		Vinyl Bromide	0.874	1.020	1.049	0.951	0.936	0.760	0.932	11.24
9)		Isopropanol	4.212	2.983	2.509	2.661	3.112	2.510	2.998	21.50
10)		Acrolein	0.554	0.557	0.680	0.666	0.548	0.444	0.575	15.17
11)		t-Butanol		3.453	2.409	2.730	3.092	2.725	2.882	13.90
12)		Allyl Chloride	2.747	2.860	2.771	2.714	2.341	1.883	2.553	14.65
13)		Acrylonitrile	0.730	1.554	1.383	1.397	1.341	1.107	1.252	23.46
14)		t-Butyl methyl ethe	6.111	5.746	5.135	4.937	5.014	4.167	5.185	13.09
15)		n-Hexane	3.559	3.454	3.145	2.977	2.841	2.206	3.030	16.10
16)		Isopropyl ether	7.788	7.396	7.274	6.759	5.964	4.354	6.589	19.16
17)		t-Butyl ethyl ether	2.728	2.520	1.780	1.874	2.060	1.806	2.128	18.88
18)		Ethyl Acetate		0.434	0.428	0.443	0.477	0.364	0.429	9.59
19)		2,2-Dichloropropane	3.406	3.175	2.141	2.477	2.979	2.473	2.775	17.51
20)		Tetrahydrofuran	1.108	0.958	0.952	0.914	0.868	0.700	0.917	14.52
21)		Cyclohexane	3.528	3.542	3.392	3.177	2.920	2.285	3.141	15.31
22)		2,2,4-Trimethylpent	1.193	1.138	1.083	1.004	0.862	0.643	0.987	E1 20.71
23)	I	1,4-Difluorobenzene	----------ISTD----------							
24)	S	1,2-Dichloroethane-	0.397	0.376	0.421	0.459	0.441	0.462	0.426	8.17
25)		t-Amyl methyl ether	1.386	1.290	1.035	1.148	1.334	1.219	1.235	10.45
26)		Heptane	0.496	0.466	0.460	0.459	0.476	0.416	0.462	5.73
27)		1,4-Dioxane	0.290	0.305	0.327	0.325	0.336		0.317	5.86
28)		2-chloroethylvinyle		0.002	0.018	0.003	0.005	0.005	0.007	100.18
29)	S	Toluene-d8	0.860	0.835	0.863	0.855	0.861	0.865	0.857	1.31
30)		Chlorobenzene-d5	----------ISTD----------							
31)		Cyclohexanone		0.694	0.727	0.747	0.720	0.649	0.707	5.33
32)	S	4-Bromofluorobenzen	0.583	0.557	0.606	0.605	0.667	0.756	0.629	11.42
33)		Dicyclopentadiene		0.023	0.024	0.025	0.009	0.022	0.020	~~32.20~~ NA
34)		Naphthalene		1.556	1.965	2.071	1.916	1.853	1.872	10.35
35)		1,2,3-Trichlorobenz				0.001	0.003	0.004	0.003	~~50.70~~ NA

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL111120.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Sun Nov 20 22:14:36 2011
Response via : Initial Calibration

Calibration Files
1 =20NOV008.D 5 =20NOV009.D 10 =20NOV010.D
25 =20NOV011.D 100 =20NOV012.D 250 =20NOV013.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Propene	2.109	1.915	1.781	1.654	1.530	0.997	1.664	23.06
3)		isobutane		0.060	0.066	0.063	0.070	0.047	0.062	14.29
4)		1,3-Butadiene	1.206	1.246	1.290	1.263	1.242	0.845	1.182	14.14
5)		Methanol	2.367	0.862	0.521	0.372	0.464	0.238	0.804	98.71
6)		Acetaldehyde		0.539	0.510	0.440	0.458	0.313	0.452	19.31
7)		Ethanol	0.864	0.577	1.195	1.296	0.768	0.491	0.865	37.51
8)		Vinyl Bromide	1.682	1.662	1.770	1.669	1.585	1.138	1.584	14.29
9)		Isopropanol	3.822	3.970	4.466	4.320	4.010	2.732	3.887	15.79
10)		Acrolein	0.478	0.742	0.779	0.756	0.653	0.471	0.647	21.68
11)		t-Butanol	2.963	3.590	3.900	3.791	3.804	2.793	3.473	13.69
12)		Allyl Chloride	2.429	2.656	2.857	2.788	2.490	1.759	2.496	15.91
13)		Acrylonitrile	0.178	1.491	1.593	1.440	1.390	1.020	1.185	44.78
14)		t-Butyl methyl ethe	6.333	6.364	6.055	5.864	5.734	4.150	5.750	14.31
15)		n-Hexane	3.837	3.819	3.418	3.272	3.284	2.276	3.318	17.15
16)		Isopropyl ether	7.038	7.181	6.973	6.621	6.223	4.119	6.359	18.09
17)		t-Butyl ethyl ether	2.156	2.321	2.426	2.315	2.263	1.659	2.190	12.54
18)		Ethyl Acetate		0.507	0.490	0.508	0.551	0.378	0.487	13.29
19)		2,2-Dichloropropane	3.040	3.195	3.375	3.211	3.180	2.175	3.029	14.26
20)		Tetrahydrofuran	1.252	1.103	1.006	1.013	0.974	0.698	1.008	18.06
21)		Cyclohexane	3.858	3.938	3.751	3.507	3.338	2.319	3.452	17.34
22)		2,2,4-Trimethylpent	1.053	1.098	1.035	0.971	0.907	0.605	0.945	E1 18.99
23)	I	1,4-Difluorobenzene	----------ISTD----------							
24)	S	1,2-Dichloroethane-	0.431	0.449	0.439	0.457	0.445	0.423	0.441	2.82
25)		t-Amyl methyl ether	1.157	1.181	1.248	1.287	1.320	1.101	1.216	6.87
26)		Heptane	0.470	0.493	0.421	0.430	0.496	0.398	0.451	9.02
27)		1,4-Dioxane	0.310	0.359	0.398	0.405	0.369		0.368	10.27
28)		2-chloroethylvinyle		0.002	0.018	0.004	0.006	0.005	0.007	90.31
29)	S	Toluene-d8	0.776	0.808	0.753	0.765	0.832	0.835	0.795	4.44
30)		Chlorobenzene-d5	----------ISTD----------							
31)		Cyclohexanone		0.797	1.059	1.043	0.933	0.756	0.918	15.07
32)	S	4-Bromofluorobenzen	0.579	0.602	0.615	0.645	0.671	0.703	0.636	7.22
33)		Dicyclopentadiene		0.023	0.034	0.034	0.032	0.024	0.029	18.11
34)		Naphthalene		2.110	3.121	4.013	3.053	2.488	2.957	24.44
35)		1,2,3-Trichlorobenz				0.007	0.005	0.005	0.006	22.31

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111114\19NOV003.D
Acq On : 19 Nov 2011 00:37
Sample : TO15 CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	95	-0.01
2		Dichlorodifluoromethane (12	5.379	6.624	-23.1	105	-0.01
3		Chloromethane	1.681	2.038	-21.2	110	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	4.876	5.990	-22.8	106	0.00
5		Vinyl Chloride	1.490	1.839	-23.4	108	0.00
6		Bromomethane	0.973	1.487	-52.8#	118	0.00
7		Chloroethane	1.011	1.216	-20.3	114	0.00
8		Trichlorofluoromethane (11)	5.543	6.586	-18.8	105	0.00
9	M	1,1-Dichloroethene	3.158	3.487	-10.4	101	0.00
10		Carbon Disulfide	4.713	5.334	-13.2	104	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	2.698	2.942	-9.0	101	0.00
12		Acetone	3.867	4.117	-6.5	104	0.00
13	M	Methylene Chloride	1.521	1.689	-11.0	102	-0.01
14		t-1,2-Dichloroethene	1.722	1.991	-15.6	103	0.00
15		1,1-Dichloroethane	3.503	4.249	-21.3	109	0.00
16		Vinyl Acetate	6.692	8.470	-26.6	114	0.00
17		c-1,2-Dichloroethene	1.795	2.187	-21.8	108	0.00
18		2-Butanone	0.851	1.018	-19.6	103	0.00
19		t-Butyl Methyl Ether	5.187	5.938	-14.5	110	0.00
20	t	Chloroform	4.076	4.712	-15.6	103	0.00
21		1,1,1-Trichloroethane	3.908	4.605	-17.8	118	0.00
22		1,1-Dichloropropene	3.074	3.180	-3.4	91	0.00
23	t	Carbon Tetrachloride	3.339	4.238	-26.9	133	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
25	T	Benzene	1.420	1.463	-3.0	100	-0.01
26	S	1,2-Dichloroethane-d4	0.456	0.426	6.6	94	0.00
27		1,2-Dichloroethane	0.717	0.859	-19.8	107	0.00
28	M	Trichloroethene	0.542	0.593	-9.4	99	0.00
29		1,2-Dichloropropane	0.498	0.574	-15.3	106	0.00
30		Bromodichloromethane	0.927	1.108	-19.5	111	0.00
31		Dibromomethane	0.547	0.559	-2.2	93	0.00
32		c-1,3-Dichloropropene	0.668	0.805	-20.5	127	0.00
33		4-Methyl-2-Pentanone	1.071	1.285	-20.0	110	-0.01
34	S	Toluene-d8	0.858	0.827	3.6	90	0.00
35	M	Toluene	1.562	1.615	-3.4	96	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
37		t-1,3-Dichloropropene	0.773	0.991	-28.2	137	-0.01
38		1,1,2-Trichloroethane	0.776	0.926	-19.3	101	-0.01
39		1,3-Dichloropropane	1.207	1.281	-6.1	92	0.00

(#) = Out of Range

Data File : D:\GCMSB\111114\19NOV003.D
Acq On : 19 Nov 2011 00:37
Sample : TO15 CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Tetrachloroethene	0.908	1.028	-13.2	97	0.00
41		2-Hexanone	0.733	0.941	-28.4	108	0.00
42		Dibromochloromethane	1.168	1.472	-26.0	118	-0.01
43	t	1,2-Dibromoethane	1.166	1.415	-21.4	104	0.00
44		Chlorobenzene	1.621	1.850	-14.1	97	0.00
45		1,1,1,2-Tetrachloroethane	0.770	0.892	-15.8	114	-0.01
46	T	Ethylbenzene	2.738	3.023	-10.4	94	0.00
47	T	p,&m-Xylene	2.235	2.449	-9.6	90	0.00
48	T	o-Xylene	2.436	2.516	-3.3	90	0.00
49		Styrene	1.481	1.600	-8.0	89	0.00
50		Bromoform	0.803	1.050	-30.8#	131	0.00
51		Isopropyl benzene	2.960	2.793	5.6	82	0.00
52	M	1,1,2,2-Tetrachloroethane	1.595	1.929	-20.9	104	0.00
53	S	4-Bromofluorobenzene	0.362	0.347	4.1	85	0.00
54		Benzyl Chloride	0.990	1.060	-7.1	178#	0.00
55		1,2,3-Trichloropropane	0.569	0.623	-9.5	94	0.00
56		n-Propyl Benzene	3.494	3.375	3.4	83	-0.01
57		Bromobenzene	1.554	1.730	-11.3	95	0.00
58		4-Ethyl Toluene	3.068	3.071	-0.1	88	0.00
59	T	1,3,5-Trimethylbenzene	2.605	2.870	-10.2	97	-0.01
60		2-Chlorotoluene	2.645	2.678	-1.2	91	0.00
61		4-Chlorotoluene	2.183	2.219	-1.6	90	0.00
62		tert-Butylbenzene	2.419	2.726	-12.7	98	0.00
63		1,2,4-Trimethylbenzene	2.693	2.913	-8.2	98	0.00
64		sec-Butylbenzene	3.040	3.299	-8.5	92	-0.01
65		p-Isopropyltoluene	2.329	2.656	-14.0	95	0.00
66		1,3-Dichlorobenzene	1.473	1.514	-2.8	93	0.00
67		1,4-Dichlorobenzene	1.465	1.504	-2.7	94	0.00
68		n-Butylbenzene	2.072	2.673	-29.0	113	0.00
69		1,2-Dichlorobenzene	1.376	1.460	-6.1	93	0.00
70		1,2-Dibromo-3-chloropropane	0.272	0.482	-77.2#	190#	-0.01
71		1,2,4-Trichlorobenzene	0.754	1.020	-35.3#	118	-0.01
72		Hexachlorobutadiene	0.628	0.817	-30.1#	112	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111114\19NOV003.D Vial: 16
Acq On : 19 Nov 2011 00:37 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL111103.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Nov 04 13:04:46 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	95	0.00
2		Propene	1.443	1.690	-17.1	110	0.02
3		isobutane	0.063	0.067	-6.3	96	0.03
4		1,3-Butadiene	0.995	1.226	-23.2	116	0.00
5		Methanol	0.838	0.433	48.3#	156#	0.00
6		Acetaldehyde	0.494	0.457	7.5	82	0.00
7		Ethanol	0.556	1.248	-124.5#	212#	0.00
8		Vinyl Bromide	0.932	1.775	-90.5#	161#	0.00
9		Isopropanol	2.998	4.095	-36.6#	155#	0.00
10		Acrolein	0.575	0.753	-31.0#	105	0.00
11		t-Butanol	2.438	3.612	-48.2#	142	0.12
12		Allyl Chloride	2.553	2.749	-7.7	94	0.00
13		Acrylonitrile	1.252	1.380	-10.2	95	0.00
14		t-Butyl methyl ether	5.185	5.938	-14.5	110	0.00
15		n-Hexane	3.030	3.506	-15.7	106	0.00
16		Isopropyl ether	6.589	7.075	-7.4	92	0.00
17		t-Butyl ethyl ether	2.128	2.384	-12.0	127	0.00
18		Ethyl Acetate	0.429	0.538	-25.4	119	0.00
19		2,2-Dichloropropane	2.775	3.132	-12.9	139	0.00
20		Tetrahydrofuran	0.917	1.079	-17.7	108	0.00
21		Cyclohexane	3.141	3.724	-18.6	104	0.00
22		2,2,4-Trimethylpentane	9.871	10.705	-8.4	94	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
24	S	1,2-Dichloroethane-d4	0.362	0.426	-17.7	1182#	0.00
25		t-Amyl methyl ether	1.235	1.250	-1.2	114	0.00
26		Heptane	0.462	0.490	-6.1	101	0.00
27		1,4-Dioxane	0.317	0.387	-22.1	112	0.00
28		2-chloroethylvinylether	0.007	0.002	71.4#	11#	0.00
29	S	Toluene-d8	0.857	0.819	4.4	89	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
31		Cyclohexanone	0.707	0.919	-30.0	115	0.00
32	S	4-Bromofluorobenzene	0.629	0.610	3.0	92	0.00
33		Dicyclopentadiene	0.020	0.033	-65.0#	128	0.00
34		Naphthalene	1.872	2.725	-45.6#	126	0.00
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AirTECHNOLOGY
Laboratories, Inc.

January 3, 2012

ACLASS Accredited DoD ELAP
ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

nelac
FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – SSD System; E742
Lab Number: C121505-01/18

Enclosed are results for sample(s) received 12/15/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME: Standard ■ | 48 hours ☐ | Same Day ☐ | 72 hours ☐ | 24 hours ☐ | 96 hours ☐ | Other:

DELIVERABLES: EDD ■ | EDF ☐ | Level 3 ☐ | Level 4 ☐

Condition upon receipt: Sealed Yes ☐ No ☐ | Intact Yes ☐ No ☐ | Chilled _____ deg C

Project No.:	E742
Project Name:	Omega - SSD System
Report To:	Jamie Dinello
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:

Bill to: de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	TO-15 (TAL 2.4)					
C121505-01	OC_SSD_B-1_121411	12/14/2011	1055	Summa	Air	No/C	X					
-02	OC_SSD_B-2_121411	12/14/2011	1312	Summa	Air	No/C	X					
-03	OC_SSD_B-3_121411	12/14/2011	1323	Summa	Air	No/C	X					
-04	OC_SSD_B-4_121411	12/14/2011	1228	Summa	Air	No/C	X					
-05	OC_SSD_B-5_121411	12/14/2011	1215	Summa	Air	No/C	X					
-06	OC_SSD_B-6_121411	12/14/2011	1200	Summa	Air	No/C	X					
-07	OC_SSD_B-7_121411	12/14/2011	1151	Summa	Air	No/C	X					
-08	OC_SSD_B-8_121411	12/14/2011	1138	Summa	Air	No/C	X					
-09	OC_SSD_B-9_121411	12/14/2011	1546	Summa	Air	No/C	X					
-10	OC_SSD_B-10_121411	12/14/2011	1558	Summa	Air	No/C	X					

AUTHORIZATION TO PERFORM WORK: A. MILLER	COMPANY: JHA	DATE/TIME: 12/14/11 1000	
SAMPLED BY: A. MILLER	COMPANY: JHA	DATE/TIME: 12/14/11 1000	
RELINQUISHED BY: [signature]	DATE/TIME: 12/15/11 1410	RECEIVED BY: DON TWEEDON	DATE/TIME: 12/15/11 1410
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS:

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME				DELIVERABLES		Condition upon receipt:
Standard	■	48 hours	☐	EDD	■	Sealed Yes ☐ No ☐
Same Day	☐	72 hours	☐	EDF	☐	Intact Yes ☐ No ☐
24 hours	☐	96 hours	☐	Level 3	☐	Chilled _____ deg C
Other:				Level 4	☐	

Project No.:	E742
Project Name:	Omega - SSD System
Report To:	Jamie Dinello
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:
Bill to: de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 (TAL 2.4)					
C121505 - 11	OC_SSD_B-11_121411	12/14/2011	1536	Summa	Air	No/C	x					
- 12	OC_SSD_B-12_121411	12/14/2011	1318	Summa	Air	No/C	x					
- 13	OC_SSD_B-13_121411	12/14/2011	1522	Summa	Air	No/C	x					
- 14	OC_SSD_B-14_121411	12/14/2011	1528	Summa	Air	No/C	x					
- 15	OC_SSD_B-15_121411	12/14/2011	1236	Summa	Air	No/C	x					
- 16	OC_SSD_B-16_121411	12/14/2011	1543	Summa	Air	No/C	x					
- 17	OC_SSD_B-17_121411	12/14/2011	1424	Summa	Air	No/C	x					
- 18	OC_SSD_B-18_121411	12/14/2011	1127	Summa	Air	No/C	x					

AUTHORIZATION TO PERFORM WORK: A. MILLER	COMPANY: JHA	DATE/TIME: 12/14/11 1000	
SAMPLED BY: A. MILLER	COMPANY: JHA	DATE/TIME: 12/14/11 1000	
RELINQUISHED BY: [signature]	DATE/TIME: 12/15/11 1410	RECEIVED BY: DON TONGSON	DATE/TIME: 12/15/11 1410
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS:

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-01			C121505-02			C121505-03			C121505-04		
Client Sample I.D.:	OC_SSD_B-1_121411			OC_SSD_B-2_121411			OC_SSD_B-3_121411			OC_SSD_B-4_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/21/11			12/21/11			12/22/11			12/22/11		
QC Batch No.:	111221MS3A1			111221MS3A1			111221MS3A1			111221MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.62 J	1.7	0.10	0.53 J	1.7	0.10	0.65 J	1.7	0.11	0.66 J	1.7	0.10
Chloromethane	0.87 J	3.4	0.56	1.0 J	3.4	0.56	0.59 J	3.5	0.58	0.90 J	3.4	0.56
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.7	0.22	ND	1.7	0.22	ND	1.7	0.22	ND	1.7	0.22
Vinyl Chloride	ND	1.7	0.37	ND	1.7	0.37	ND	1.7	0.39	ND	1.7	0.37
Bromomethane	ND	1.7	0.58	ND	1.7	0.58	ND	1.7	0.60	ND	1.7	0.58
Chloroethane	ND	1.7	1.3	ND	1.7	1.3	ND	1.7	1.3	ND	1.7	1.3
Trichlorofluoromethane (11)	ND	1.7	0.69	ND	1.7	0.69	2.4	1.7	0.71	ND	1.7	0.69
1,1-Dichloroethene	ND	1.7	0.18	0.72 J	1.7	0.18	1.8	1.7	0.19	ND	1.7	0.18
Carbon Disulfide	0.29 J	8.4	0.25	ND	8.4	0.25	ND	8.7	0.26	ND	8.4	0.25
1,1,2-Cl 1,2,2-F ethane (113)	ND	1.7	0.39	1.4 J	1.7	0.39	16	1.7	0.40	ND	1.7	0.39
Acetone	18	8.4	0.53	13	8.4	0.53	13	8.7	0.55	14	8.4	0.53
Methylene Chloride	ND	1.7	0.33	1.3 J	1.7	0.33	ND	1.7	0.34	ND	1.7	0.33
t-1,2-Dichloroethene	ND	1.7	0.27	ND	1.7	0.27	ND	1.7	0.28	ND	1.7	0.27
1,1-Dichloroethane	ND	1.7	0.20	ND	1.7	0.20	ND	1.7	0.21	ND	1.7	0.20
Vinyl Acetate	ND	8.4	0.29	ND	8.4	0.29	ND	8.7	0.30	ND	8.4	0.29
c-1,2-Dichloroethene	ND	1.7	0.37	ND	1.7	0.37	ND	1.7	0.38	ND	1.7	0.37
2-Butanone	1.2 J	1.7	0.43	ND	1.7	0.43	ND	1.7	0.44	ND	1.7	0.43
t-Butyl Methyl Ether (MTBE)	ND	1.7	0.33	ND	1.7	0.33	ND	1.7	0.35	ND	1.7	0.33
Chloroform	ND	1.7	0.23	0.40 J	1.7	0.23	ND	1.7	0.24	ND	1.7	0.23
1,1,1-Trichloroethane	ND	1.7	0.19	ND	1.7	0.19	ND	1.7	0.20	ND	1.7	0.19
Carbon Tetrachloride	ND	1.7	0.19	ND	1.7	0.19	ND	1.7	0.20	ND	1.7	0.19
Benzene	0.64 J	1.7	0.33	0.39 J	1.7	0.33	ND	1.7	0.34	0.34 J	1.7	0.33
1,2-Dichloroethane	ND	1.7	0.44	ND	1.7	0.44	ND	1.7	0.46	ND	1.7	0.44
Trichloroethene	ND	1.7	0.26	0.64 J	1.7	0.26	ND	1.7	0.27	ND	1.7	0.26
1,2-Dichloropropane	ND	1.7	0.21	ND	1.7	0.21	ND	1.7	0.22	ND	1.7	0.21
Bromodichloromethane	ND	1.7	0.25	ND	1.7	0.25	ND	1.7	0.26	ND	1.7	0.25
c-1,3-Dichloropropene	ND	1.7	0.38	ND	1.7	0.38	ND	1.7	0.39	ND	1.7	0.38
4-Methyl-2-Pentanone	0.95 J	1.7	0.097	ND	1.7	0.097	ND	1.7	0.10	ND	1.7	0.097
Toluene	1.9	1.7	0.28	0.95 J	1.7	0.28	0.71 J	1.7	0.29	0.75 J	1.7	0.28
t-1,3-Dichloropropene	ND	1.7	0.44	ND	1.7	0.44	ND	1.7	0.46	ND	1.7	0.44
1,1,2-Trichloroethane	ND	1.7	0.34	ND	1.7	0.34	ND	1.7	0.36	ND	1.7	0.34
Tetrachloroethene	ND	1.7	0.35	6.0	1.7	0.35	2.1	1.7	0.36	0.82 J	1.7	0.35
2-Hexanone	ND	1.7	0.24	ND	1.7	0.24	ND	1.7	0.25	ND	1.7	0.24
Dibromochloromethane	ND	1.7	0.29	ND	1.7	0.29	ND	1.7	0.30	ND	1.7	0.29
1,2-Dibromoethane	ND	1.7	0.22	ND	1.7	0.22	ND	1.7	0.23	ND	1.7	0.22
Chlorobenzene	ND	1.7	0.24	ND	1.7	0.24	ND	1.7	0.25	ND	1.7	0.24

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-01			C121505-02			C121505-03			C121505-04		
Client Sample I.D.:	OC_SSD_B-1_121411			OC_SSD_B-2_121411			OC_SSD_B-3_121411			OC_SSD_B-4_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/21/11			12/21/11			12/22/11			12/22/11		
QC Batch No.:	111221MS3A1			111221MS3A1			111221MS3A1			111221MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	1.7	0.061	ND	1.7	0.061	ND	1.7	0.063	ND	1.7	0.061
p,&m-Xylene	0.68 J	1.7	0.39	0.49 J	1.7	0.39	ND	1.7	0.40	0.41 J	1.7	0.39
o-Xylene	0.26 J	1.7	0.23	ND	1.7	0.23	ND	1.7	0.24	ND	1.7	0.23
Isopropanol	20	8.4	3.9	14	8.4	3.9	13	8.7	4.0	21	8.4	3.9
n-Hexane	ND	8.4	1.5	ND	8.4	1.5	ND	8.7	1.5	ND	8.4	1.5
1,4-Dioxane	ND	8.4	1.9	ND	8.4	1.9	ND	8.7	2.0	ND	8.4	1.9
Total VOC's	45			41			50			39		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	95%	70-130%	100%	70-130%	98%	70-130%	96%	70-130%
Toluene-d8	103%	70-130%	101%	70-130%	101%	70-130%	107%	70-130%
4-Bromofluorobenzene	100%	70-130%	102%	70-130%	98%	70-130%	99%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1-3-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-05			C121505-06			C121505-07			C121505-08		
Client Sample I.D.:	OC_SSD_B-5_121411			OC_SSD_B-6_121411			OC_SSD_B-7_121411			OC_SSD_B-8_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111221MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			8.6		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.60 J	1.7	0.10	0.61 J	1.7	0.10	0.64 J	1.7	0.10	1.4 J	8.6	0.52
Chloromethane	ND	3.4	0.56	0.65 J	3.4	0.56	0.89 J	3.4	0.56	ND	17	2.9
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.7	0.22	ND	1.7	0.22	ND	1.7	0.22	ND	8.6	1.1
Vinyl Chloride	ND	1.7	0.37	ND	1.7	0.37	ND	1.7	0.37	ND	8.6	1.9
Bromomethane	ND	1.7	0.58	ND	1.7	0.58	ND	1.7	0.58	ND	8.6	3.0
Chloroethane	ND	1.7	1.3	ND	1.7	1.3	ND	1.7	1.3	ND	8.6	6.4
Trichlorofluoromethane (11)	3.7	1.7	0.69	ND	1.7	0.69	9.8	1.7	0.69	140	8.6	3.5
1,1-Dichloroethene	36	1.7	0.18	ND	1.7	0.18	90	1.7	0.18	570	8.6	0.93
Carbon Disulfide	5.0 J	8.4	0.25	ND	8.4	0.25	ND	8.4	0.25	3.1 J	43	1.3
1,1,2-Cl 1,2,2-F ethane (113)	7.0	1.7	0.39	ND	1.7	0.39	18	1.7	0.39	480	8.6	2.0
Acetone	6.1 J	8.4	0.53	13	8.4	0.53	39	8.4	0.53	19 J	43	2.7
Methylene Chloride	ND	1.7	0.33	ND	1.7	0.33	ND	1.7	0.33	ND	8.6	1.7
t-1,2-Dichloroethene	ND	1.7	0.27	ND	1.7	0.27	0.30 J	1.7	0.27	2.1 J	8.6	1.4
1,1-Dichloroethane	ND	1.7	0.20	ND	1.7	0.20	1.2 J	1.7	0.20	2.7 J	8.6	1.0
Vinyl Acetate	ND	8.4	0.29	ND	8.4	0.29	ND	8.4	0.29	ND	43	1.5
c-1,2-Dichloroethene	ND	1.7	0.37	ND	1.7	0.37	ND	1.7	0.37	ND	8.6	1.9
2-Butanone	ND	1.7	0.43	ND	1.7	0.43	ND	1.7	0.43	ND	8.6	2.2
t-Butyl Methyl Ether (MTBE)	ND	1.7	0.33	ND	1.7	0.33	ND	1.7	0.33	ND	8.6	1.7
Chloroform	2.9	1.7	0.23	ND	1.7	0.23	14	1.7	0.23	29	8.6	1.2
1,1,1-Trichloroethane	ND	1.7	0.19	ND	1.7	0.19	ND	1.7	0.19	ND	8.6	0.98
Carbon Tetrachloride	ND	1.7	0.19	ND	1.7	0.19	ND	1.7	0.19	ND	8.6	0.98
Benzene	ND	1.7	0.33	0.38 J	1.7	0.33	0.55 J	1.7	0.33	ND	8.6	1.7
1,2-Dichloroethane	ND	1.7	0.44	ND	1.7	0.44	ND	1.7	0.44	ND	8.6	2.3
Trichloroethene	11	1.7	0.26	ND	1.7	0.26	29	1.7	0.26	99	8.6	1.3
1,2-Dichloropropane	ND	1.7	0.21	ND	1.7	0.21	ND	1.7	0.21	ND	8.6	1.1
Bromodichloromethane	ND	1.7	0.25	ND	1.7	0.25	ND	1.7	0.25	ND	8.6	1.3
c-1,3-Dichloropropene	ND	1.7	0.38	ND	1.7	0.38	ND	1.7	0.38	ND	8.6	1.9
4-Methyl-2-Pentanone	ND	1.7	0.097	ND	1.7	0.097	ND	1.7	0.097	3.3 J	8.6	0.50
Toluene	0.30 J	1.7	0.28	0.81 J	1.7	0.28	0.97 J	1.7	0.28	2.4 J	8.6	1.4
t-1,3-Dichloropropene	ND	1.7	0.44	ND	1.7	0.44	ND	1.7	0.44	ND	8.6	2.3
1,1,2-Trichloroethane	ND	1.7	0.34	ND	1.7	0.34	ND	1.7	0.34	ND	8.6	1.8
Tetrachloroethene	160	1.7	0.35	1.4 J	1.7	0.35	260	1.7	0.35	1,800	8.6	1.8
2-Hexanone	ND	1.7	0.24	ND	1.7	0.24	ND	1.7	0.24	ND	8.6	1.2
Dibromochloromethane	ND	1.7	0.29	ND	1.7	0.29	ND	1.7	0.29	ND	8.6	1.5
1,2-Dibromoethane	ND	1.7	0.22	ND	1.7	0.22	ND	1.7	0.22	ND	8.6	1.1
Chlorobenzene	ND	1.7	0.24	ND	1.7	0.24	ND	1.7	0.24	ND	8.6	1.2

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-05			C121505-06			C121505-07			C121505-08		
Client Sample I.D.:	OC_SSD_B-5_121411			OC_SSD_B-6_121411			OC_SSD_B-7_121411			OC_SSD_B-8_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111221MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			8.6		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	1.7	0.061	ND	1.7	0.061	0.13 J	1.7	0.061	ND	8.6	0.31
p,&m-Xylene	ND	1.7	0.39	ND	1.7	0.39	0.64 J	1.7	0.39	ND	8.6	2.0
o-Xylene	ND	1.7	0.23	ND	1.7	0.23	0.28 J	1.7	0.23	ND	8.6	1.2
Isopropanol	ND	8.4	3.9	65	8.4	3.9	4.2 J	8.4	3.9	ND	43	20
n-Hexane	ND	8.4	1.5	ND	8.4	1.5	ND	8.4	1.5	ND	43	7.4
1,4-Dioxane	ND	8.4	1.9	ND	8.4	1.9	ND	8.4	1.9	ND	43	9.6
Total VOC's	230			82			470			3,200		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	103%	70-130%	100%	70-130%	99%	70-130%	103%	70-130%
Toluene-d8	113%	70-130%	99%	70-130%	104%	70-130%	102%	70-130%
4-Bromofluorobenzene	102%	70-130%	114%	70-130%	103%	70-130%	98%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1-3-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-09			C121505-10			C121505-11			C121505-12		
Client Sample I.D.:	OC_SSD_B-9_121411			OC_SSD_B-10_121411			OC_SSD_B-11_121411			OC_SSD_B-12_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	7.2			2.4			25			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	ND	7.2	0.44	1.7 J	2.4	0.15	2.3 J	25	1.5	0.67 J	1.7	0.11
Chloromethane	ND	14	2.4	1.0 J	4.8	0.80	ND	51	8.4	1.1 J	3.5	0.58
1,2-Cl-1,1,2,2-F ethane (114)	ND	7.2	0.93	ND	2.4	0.31	ND	25	3.3	ND	1.7	0.22
Vinyl Chloride	ND	7.2	1.6	ND	2.4	0.53	ND	25	5.6	ND	1.7	0.39
Bromomethane	ND	7.2	2.5	ND	2.4	0.83	ND	25	8.7	ND	1.7	0.60
Chloroethane	ND	7.2	5.4	ND	2.4	1.8	ND	25	19	ND	1.7	1.3
Trichlorofluoromethane (11)	30	7.2	3.0	48	2.4	0.99	360	25	10	ND	1.7	0.71
1,1-Dichloroethene	440	7.2	0.78	130	2.4	0.26	1,900	25	2.7	0.60 J	1.7	0.19
Carbon Disulfide	4.4 J	36	1.1	ND	12	0.36	9.4 J	130	3.7	0.52 J	8.7	0.26
1,1,2-Cl 1,2,2-F ethane (113)	61	7.2	1.7	290	2.4	0.55	1,300	25	5.8	1.5 J	1.7	0.40
Acetone	18 J	36	2.3	11 J	12	0.76	35 J	130	7.9	13	8.7	0.55
Methylene Chloride	ND	7.2	1.4	ND	2.4	0.47	ND	25	4.9	1.8	1.7	0.34
t-1,2-Dichloroethene	ND	7.2	1.2	ND	2.4	0.39	8.7 J	25	4.1	ND	1.7	0.28
1,1-Dichloroethane	3.9 J	7.2	0.86	0.99 J	2.4	0.29	13 J	25	3.0	ND	1.7	0.21
Vinyl Acetate	ND	36	1.3	ND	12	0.42	ND	130	4.4	ND	8.7	0.30
c-1,2-Dichloroethene	ND	7.2	1.6	0.67 J	2.4	0.53	61	25	5.5	ND	1.7	0.38
2-Butanone	ND	7.2	1.8	ND	2.4	0.61	ND	25	6.4	ND	1.7	0.44
t-Butyl Methyl Ether (MTBE)	ND	7.2	1.4	ND	2.4	0.48	ND	25	5.0	ND	1.7	0.35
Chloroform	20	7.2	1.0	22	2.4	0.33	110	25	3.5	0.28 J	1.7	0.24
1,1,1-Trichloroethane	ND	7.2	0.82	ND	2.4	0.27	ND	25	2.9	ND	1.7	0.20
Carbon Tetrachloride	ND	7.2	0.83	ND	2.4	0.28	ND	25	2.9	ND	1.7	0.20
Benzene	1.5 J	7.2	1.4	1.2 J	2.4	0.47	ND	25	5.0	0.43 J	1.7	0.34
1,2-Dichloroethane	ND	7.2	1.9	ND	2.4	0.63	ND	25	6.6	ND	1.7	0.46
Trichloroethene	140	7.2	1.1	22	2.4	0.37	520	25	3.9	ND	1.7	0.27
1,2-Dichloropropane	ND	7.2	0.91	ND	2.4	0.30	ND	25	3.2	ND	1.7	0.22
Bromodichloromethane	ND	7.2	1.1	ND	2.4	0.36	ND	25	3.8	ND	1.7	0.26
c-1,3-Dichloropropene	ND	7.2	1.6	ND	2.4	0.54	ND	25	5.7	ND	1.7	0.39
4-Methyl-2-Pentanone	4.7 J	7.2	0.42	ND	2.4	0.14	ND	25	1.5	ND	1.7	0.10
Toluene	3.2 J	7.2	1.2	1.2 J	2.4	0.39	5.8 J	25	4.1	0.94 J	1.7	0.29
t-1,3-Dichloropropene	ND	7.2	1.9	ND	2.4	0.64	ND	25	6.7	ND	1.7	0.46
1,1,2-Trichloroethane	ND	7.2	1.5	ND	2.4	0.49	ND	25	5.2	ND	1.7	0.36
Tetrachloroethene	1,500	7.2	1.5	570	2.4	0.50	5,800	25	5.3	4.9	1.7	0.36
2-Hexanone	ND	7.2	1.0	ND	2.4	0.34	ND	25	3.6	ND	1.7	0.25
Dibromochloromethane	ND	7.2	1.2	ND	2.4	0.41	ND	25	4.3	ND	1.7	0.30
1,2-Dibromoethane	ND	7.2	0.95	ND	2.4	0.32	ND	25	3.3	ND	1.7	0.23
Chlorobenzene	ND	7.2	1.0	ND	2.4	0.35	ND	25	3.6	ND	1.7	0.25

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-09			C121505-10			C121505-11			C121505-12		
Client Sample I.D.:	OC_SSD_B-9_121411			OC_SSD_B-10_121411			OC_SSD_B-11_121411			OC_SSD_B-12_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	7.2			2.4			25			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	0.79 J	7.2	0.26	ND	2.4	0.087	ND	25	0.91	ND	1.7	0.063
p,&m-Xylene	4.3 J	7.2	1.7	ND	2.4	0.55	ND	25	5.8	0.46 J	1.7	0.40
o-Xylene	2.2 J	7.2	1.00	ND	2.4	0.33	ND	25	3.5	ND	1.7	0.24
Isopropanol	ND	36	16	ND	12	5.5	ND	130	58	13	8.7	4.0
n-Hexane	ND	36	6.2	ND	12	2.1	ND	130	22	ND	8.7	1.5
1,4-Dioxane	ND	36	8.1	ND	12	2.7	ND	130	28	ND	8.7	2.0
Total VOC's	2,200			1,100			10,000			39		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	101%	70-130%	109%	70-130%	104%	70-130%	102%	70-130%
Toluene-d8	98%	70-130%	95%	70-130%	98%	70-130%	103%	70-130%
4-Bromofluorobenzene	97%	70-130%	100%	70-130%	98%	70-130%	111%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1-3-12

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-13			C121505-14			C121505-15			C121505-16		
Client Sample I.D.:	OC_SSD_B-13_121411			OC_SSD_B-14_121411			OC_SSD_B-15_121411			OC_SSD_B-16_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.8			1.7			1.8			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.63 J	1.8	0.11	0.69 J	1.7	0.10	0.86 J	1.8	0.11	0.59 J	1.7	0.10
Chloromethane	0.99 J	3.6	0.60	ND	3.4	0.56	ND	3.6	0.60	ND	3.4	0.57
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.8	0.23	ND	1.7	0.22	ND	1.8	0.23	ND	1.7	0.22
Vinyl Chloride	ND	1.8	0.40	ND	1.7	0.37	ND	1.8	0.40	ND	1.7	0.38
Bromomethane	ND	1.8	0.62	ND	1.7	0.58	ND	1.8	0.62	ND	1.7	0.59
Chloroethane	ND	1.8	1.3	ND	1.7	1.3	ND	1.8	1.3	ND	1.7	1.3
Trichlorofluoromethane (11)	ND	1.8	0.74	18	1.7	0.69	14	1.8	0.74	1.1 J	1.7	0.70
1,1-Dichloroethene	1.3 J	1.8	0.19	100	1.7	0.18	20	1.8	0.19	12	1.7	0.18
Carbon Disulfide	0.36 J	9.0	0.27	ND	8.4	0.25	ND	9.0	0.27	0.27 J	8.6	0.25
1,1,2-Cl 1,2,2-F ethane (113)	1.8	1.8	0.41	60	1.7	0.39	95	1.8	0.41	1.8	1.7	0.39
Acetone	21	9.0	0.57	9.3	8.4	0.53	11	9.0	0.57	7.7 J	8.6	0.54
Methylene Chloride	2.2	1.8	0.35	ND	1.7	0.33	0.88 J	1.8	0.35	ND	1.7	0.34
t-1,2-Dichloroethene	ND	1.8	0.29	ND	1.7	0.27	ND	1.8	0.29	ND	1.7	0.28
1,1-Dichloroethane	ND	1.8	0.21	ND	1.7	0.20	ND	1.8	0.21	ND	1.7	0.20
Vinyl Acetate	ND	9.0	0.31	ND	8.4	0.29	ND	9.0	0.31	ND	8.6	0.30
c-1,2-Dichloroethene	ND	1.8	0.40	ND	1.7	0.37	ND	1.8	0.40	ND	1.7	0.38
2-Butanone	ND	1.8	0.46	ND	1.7	0.43	ND	1.8	0.46	ND	1.7	0.43
t-Butyl Methyl Ether (MTBE)	ND	1.8	0.36	ND	1.7	0.33	ND	1.8	0.36	ND	1.7	0.34
Chloroform	0.46 J	1.8	0.25	1.4 J	1.7	0.23	ND	1.8	0.25	3.3	1.7	0.24
1,1,1-Trichloroethane	ND	1.8	0.21	ND	1.7	0.19	ND	1.8	0.21	ND	1.7	0.19
Carbon Tetrachloride	ND	1.8	0.21	ND	1.7	0.19	ND	1.8	0.21	ND	1.7	0.20
Benzene	0.38 J	1.8	0.35	ND	1.7	0.33	ND	1.8	0.35	ND	1.7	0.34
1,2-Dichloroethane	ND	1.8	0.47	ND	1.7	0.44	ND	1.8	0.47	ND	1.7	0.45
Trichloroethene	1.4 J	1.8	0.28	20	1.7	0.26	1.1 J	1.8	0.28	11	1.7	0.27
1,2-Dichloropropane	ND	1.8	0.23	ND	1.7	0.21	ND	1.8	0.23	ND	1.7	0.22
Bromodichloromethane	ND	1.8	0.27	ND	1.7	0.25	ND	1.8	0.27	ND	1.7	0.26
c-1,3-Dichloropropene	ND	1.8	0.41	ND	1.7	0.38	ND	1.8	0.41	ND	1.7	0.39
4-Methyl-2-Pentanone	ND	1.8	0.10	ND	1.7	0.097	ND	1.8	0.10	ND	1.7	0.099
Toluene	1.0 J	1.8	0.30	0.47 J	1.7	0.28	0.65 J	1.8	0.30	0.39 J	1.7	0.28
t-1,3-Dichloropropene	ND	1.8	0.48	ND	1.7	0.44	ND	1.8	0.48	ND	1.7	0.45
1,1,2-Trichloroethane	ND	1.8	0.37	ND	1.7	0.34	ND	1.8	0.37	ND	1.7	0.35
Tetrachloroethene	40	1.8	0.38	310	1.7	0.35	28	1.8	0.38	150	1.7	0.36
2-Hexanone	ND	1.8	0.26	ND	1.7	0.24	ND	1.8	0.26	ND	1.7	0.24
Dibromochloromethane	ND	1.8	0.31	ND	1.7	0.29	ND	1.8	0.31	ND	1.7	0.29
1,2-Dibromoethane	ND	1.8	0.24	ND	1.7	0.22	ND	1.8	0.24	ND	1.7	0.22
Chlorobenzene	ND	1.8	0.26	ND	1.7	0.24	ND	1.8	0.26	ND	1.7	0.25

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-13			C121505-14			C121505-15			C121505-16		
Client Sample I.D.:	OC_SSD_B-13_121411			OC_SSD_B-14_121411			OC_SSD_B-15_121411			OC_SSD_B-16_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.8			1.7			1.8			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	1.8	0.065	ND	1.7	0.061	ND	1.8	0.065	ND	1.7	0.062
p,&m-Xylene	0.54 J	1.8	0.41	ND	1.7	0.39	ND	1.8	0.41	ND	1.7	0.39
o-Xylene	ND	1.8	0.25	ND	1.7	0.23	ND	1.8	0.25	ND	1.7	0.24
Isopropanol	17	9.0	4.1	6.3 J	8.4	3.9	9.0	9.0	4.1	5.9 J	8.6	3.9
n-Hexane	ND	9.0	1.6	ND	8.4	1.5	ND	9.0	1.6	ND	8.6	1.5
1,4-Dioxane	ND	9.0	2.0	ND	8.4	1.9	ND	9.0	2.0	ND	8.6	1.9
Total VOC's	89			530			180			190		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	103%	70-130%	105%	70-130%	108%	70-130%	108%	70-130%
Toluene-d8	100%	70-130%	98%	70-130%	102%	70-130%	94%	70-130%
4-Bromofluorobenzene	99%	70-130%	96%	70-130%	98%	70-130%	97%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1-3-12

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-17			C121505-18		
Client Sample I.D.:	OC_SSD_B-17_121411			OC_SSD_B-18_121411		
Date Sampled:	12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT		
Dilution Factor:	120			2.4		
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**
Dichlorodifluoromethane (12)	20 J	120	7.2	0.67 J	2.4	0.15
Chloromethane	ND	240	39	ND	4.8	0.80
1,2-Cl-1,1,2,2-F ethane (114)	ND	120	15	ND	2.4	0.31
Vinyl Chloride	ND	120	26	ND	2.4	0.53
Bromomethane	ND	120	41	ND	2.4	0.83
Chloroethane	ND	120	88	ND	2.4	1.8
Trichlorofluoromethane (11)	3,300	120	48	15	2.4	0.99
1,1-Dichloroethene	12,000	120	13	110	2.4	0.26
Carbon Disulfide	43 J	590	17	0.61 J	12	0.36
1,1,2-Cl 1,2,2-F ethane (113)	13,000	120	27	34	2.4	0.55
Acetone	220 J	590	37	9.6 J	12	0.76
Methylene Chloride	ND	120	23	ND	2.4	0.47
t-1,2-Dichloroethene	42 J	120	19	ND	2.4	0.39
1,1-Dichloroethane	81 J	120	14	0.63 J	2.4	0.29
Vinyl Acetate	ND	590	21	ND	12	0.42
c-1,2-Dichloroethene	ND	120	26	ND	2.4	0.53
2-Butanone	ND	120	30	ND	2.4	0.61
t-Butyl Methyl Ether (MTBE)	ND	120	23	ND	2.4	0.48
Chloroform	980	120	16	7.2	2.4	0.33
1,1,1-Trichloroethane	ND	120	13	ND	2.4	0.27
Carbon Tetrachloride	ND	120	14	ND	2.4	0.28
Benzene	25 J	120	23	ND	2.4	0.47
1,2-Dichloroethane	ND	120	31	ND	2.4	0.63
Trichloroethene	2,000	120	18	32	2.4	0.37
1,2-Dichloropropane	ND	120	15	ND	2.4	0.30
Bromodichloromethane	ND	120	18	ND	2.4	0.36
c-1,3-Dichloropropene	ND	120	27	ND	2.4	0.54
4-Methyl-2-Pentanone	ND	120	6.8	ND	2.4	0.14
Toluene	37 J	120	19	0.50 J	2.4	0.39
t-1,3-Dichloropropene	ND	120	31	ND	2.4	0.64
1,1,2-Trichloroethane	ND	120	24	ND	2.4	0.49
Tetrachloroethene	25,000	120	25	520	2.4	0.50
2-Hexanone	ND	120	17	ND	2.4	0.34
Dibromochloromethane	ND	120	20	ND	2.4	0.41
1,2-Dibromoethane	ND	120	15	ND	2.4	0.32
Chlorobenzene	ND	120	17	ND	2.4	0.35

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121505-17			C121505-18		
Client Sample I.D.:	OC_SSD_B-17_121411			OC_SSD_B-18_121411		
Date Sampled:	12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT		
Dilution Factor:	120			2.4		
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**
Ethylbenzene	ND	120	4.3	ND	2.4	0.087
p,&m-Xylene	53 J	120	27	ND	2.4	0.55
o-Xylene	ND	120	16	ND	2.4	0.33
Isopropanol	ND	590	270	ND	12	5.5
n-Hexane	ND	590	100	ND	12	2.1
1,4-Dioxane	ND	590	130	ND	12	2.7
Total VOC's	57,000			730		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	111%	70-130%	113%	70-130%
Toluene-d8	103%	70-130%	114%	70-130%
4-Bromofluorobenzene	95%	70-130%	96%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1-3-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-01			C121505-02			C121505-03			C121505-04		
Client Sample I.D.:	OC_SSD_B-1_121411			OC_SSD_B-2_121411			OC_SSD_B-3_121411			OC_SSD_B-4_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/21/11			12/21/11			12/22/11			12/22/11		
QC Batch No.:	111221MS3A1			111221MS3A1			111221MS3A1			111221MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.1 J	8.3	0.51	2.6 J	8.3	0.51	3.2 J	8.6	0.52	3.2 J	8.3	0.51
Chloromethane	1.8 J	7.0	1.2	2.1 J	7.0	1.2	1.2 J	7.2	1.2	1.9 J	7.0	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	12	1.5	ND	12	1.5	ND	12	1.6	ND	12	1.5
Vinyl Chloride	ND	4.3	0.95	ND	4.3	0.95	ND	4.5	0.99	ND	4.3	0.95
Bromomethane	ND	6.5	2.3	ND	6.5	2.3	ND	6.8	2.3	ND	6.5	2.3
Chloroethane	ND	4.4	3.3	ND	4.4	3.3	ND	4.6	3.4	ND	4.4	3.3
Trichlorofluoromethane (11)	ND	9.5	3.9	ND	9.5	3.9	14	9.8	4.0	ND	9.5	3.9
1,1-Dichloroethene	ND	6.7	0.72	2.8 J	6.7	0.72	7.0	6.9	0.75	ND	6.7	0.72
Carbon Disulfide	0.90 J	26	0.78	ND	26	0.78	ND	27	0.81	ND	26	0.78
1,1,2-Cl 1,2,2-F ethane (113)	ND	13	3.0	11 J	13	3.0	120	13	3.1	ND	13	3.0
Acetone	43	20	1.3	31	20	1.3	30	21	1.3	32	20	1.3
Methylene Chloride	ND	5.9	1.1	4.5 J	5.9	1.1	ND	6.1	1.2	ND	5.9	1.1
t-1,2-Dichloroethene	ND	6.7	1.1	ND	6.7	1.1	ND	6.9	1.1	ND	6.7	1.1
1,1-Dichloroethane	ND	6.8	0.81	ND	6.8	0.81	ND	7.1	0.84	ND	6.8	0.81
Vinyl Acetate	ND	30	1.0	ND	30	1.0	ND	31	1.1	ND	30	1.0
c-1,2-Dichloroethene	ND	6.7	1.5	ND	6.7	1.5	ND	6.9	1.5	ND	6.7	1.5
2-Butanone	3.7 J	5.0	1.3	ND	5.0	1.3	ND	5.1	1.3	ND	5.0	1.3
t-Butyl Methyl Ether (MTBE)	ND	6.1	1.2	ND	6.1	1.2	ND	6.3	1.2	ND	6.1	1.2
Chloroform	ND	8.2	1.1	2.0 J	8.2	1.1	ND	8.5	1.2	ND	8.2	1.1
1,1,1-Trichloroethane	ND	9.2	1.0	ND	9.2	1.0	ND	9.5	1.1	ND	9.2	1.0
Carbon Tetrachloride	ND	11	1.2	ND	11	1.2	ND	11	1.3	ND	11	1.2
Benzene	2.0 J	5.4	1.1	1.2 J	5.4	1.1	ND	5.6	1.1	1.1 J	5.4	1.1
1,2-Dichloroethane	ND	6.8	1.8	ND	6.8	1.8	ND	7.1	1.9	ND	6.8	1.8
Trichloroethene	ND	9.1	1.4	3.4 J	9.1	1.4	ND	9.4	1.5	ND	9.1	1.4
1,2-Dichloropropane	ND	7.8	0.99	ND	7.8	0.99	ND	8.1	1.0	ND	7.8	0.99
Bromodichloromethane	ND	11	1.7	ND	11	1.7	ND	12	1.8	ND	11	1.7
c-1,3-Dichloropropene	ND	7.6	1.7	ND	7.6	1.7	ND	7.9	1.8	ND	7.6	1.7
4-Methyl-2-Pentanone	3.9 J	6.9	0.40	ND	6.9	0.40	ND	7.1	0.41	ND	6.9	0.40
Toluene	7.1	6.3	1.0	3.6 J	6.3	1.0	2.7 J	6.6	1.1	2.8 J	6.3	1.0
t-1,3-Dichloropropene	ND	7.6	2.0	ND	7.6	2.0	ND	7.9	2.1	ND	7.6	2.0
1,1,2-Trichloroethane	ND	9.2	1.9	ND	9.2	1.9	ND	9.5	1.9	ND	9.2	1.9
Tetrachloroethene	ND	11	2.4	40	11	2.4	14	12	2.5	5.6 J	11	2.4
2-Hexanone	ND	6.9	0.98	ND	6.9	0.98	ND	7.1	1.0	ND	6.9	0.98
Dibromochloromethane	ND	14	2.5	ND	14	2.5	ND	15	2.6	ND	14	2.5
1,2-Dibromoethane	ND	13	1.7	ND	13	1.7	ND	13	1.8	ND	13	1.7
Chlorobenzene	ND	7.8	1.1	ND	7.8	1.1	ND	8.0	1.2	ND	7.8	1.1

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-01			C121505-02			C121505-03			C121505-04		
Client Sample I.D.:	OC_SSD_B-1_121411			OC_SSD_B-2_121411			OC_SSD_B-3_121411			OC_SSD_B-4_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/21/11			12/21/11			12/22/11			12/22/11		
QC Batch No.:	111221MS3A1			111221MS3A1			111221MS3A1			111221MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	7.3	0.26	ND	7.3	0.26	ND	7.6	0.27	ND	7.3	0.26
p,&m-Xylene	3.0 J	7.3	1.7	2.1 J	7.3	1.7	ND	7.6	1.7	1.8 J	7.3	1.7
o-Xylene	1.1 J	7.3	1.0	ND	7.3	1.0	ND	7.6	1.0	ND	7.3	1.0
Isopropanol	50	21	9.5	33	21	9.5	31	21	9.8	53	21	9.5
n-Hexane	ND	30	5.1	ND	30	5.1	ND	31	5.3	ND	30	5.1
1,4-Dioxane	ND	30	6.8	ND	30	6.8	ND	31	7.1	ND	30	6.8
Total VOC's	120			140			220			100		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	95%	70-130%	100%	70-130%	98%	70-130%	96%	70-130%
Toluene-d8	103%	70-130%	101%	70-130%	101%	70-130%	107%	70-130%
4-Bromofluorobenzene	100%	70-130%	102%	70-130%	98%	70-130%	99%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1-3-12

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-05			C121505-06			C121505-07			C121505-08		
Client Sample I.D.:	OC_SSD_B-5_121411			OC_SSD_B-6_121411			OC_SSD_B-7_121411			OC_SSD_B-8_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111221MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			8.6		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.0 J	8.3	0.51	3.0 J	8.3	0.51	3.2 J	8.3	0.51	6.7 J	42	2.6
Chloromethane	ND	7.0	1.2	1.3 J	7.0	1.2	1.8 J	7.0	1.2	ND	35	5.9
1,2-Cl-1,1,2,2-F ethane (114)	ND	12	1.5	ND	12	1.5	ND	12	1.5	ND	60	7.7
Vinyl Chloride	ND	4.3	0.95	ND	4.3	0.95	ND	4.3	0.95	ND	22	4.9
Bromomethane	ND	6.5	2.3	ND	6.5	2.3	ND	6.5	2.3	ND	33	12
Chloroethane	ND	4.4	3.3	ND	4.4	3.3	ND	4.4	3.3	ND	23	17
Trichlorofluoromethane (11)	21	9.5	3.9	ND	9.5	3.9	55	9.5	3.9	800	48	20
1,1-Dichloroethene	140	6.7	0.72	ND	6.7	0.72	360	6.7	0.72	2,300	34	3.7
Carbon Disulfide	16 J	26	0.78	ND	26	0.78	ND	26	0.78	9.7 J	130	4.0
1,1,2-Cl 1,2,2-F ethane (113)	54	13	3.0	ND	13	3.0	130	13	3.0	3,700	66	15
Acetone	14 J	20	1.3	32	20	1.3	93	20	1.3	44 J	100	6.4
Methylene Chloride	ND	5.9	1.1	ND	5.9	1.1	ND	5.9	1.1	ND	30	5.8
t-1,2-Dichloroethene	ND	6.7	1.1	ND	6.7	1.1	1.2 J	6.7	1.1	8.2 J	34	5.5
1,1-Dichloroethane	ND	6.8	0.81	ND	6.8	0.81	4.7 J	6.8	0.81	11 J	35	4.1
Vinyl Acetate	ND	30	1.0	ND	30	1.0	ND	30	1.0	ND	150	5.3
c-1,2-Dichloroethene	ND	6.7	1.5	ND	6.7	1.5	ND	6.7	1.5	ND	34	7.5
2-Butanone	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	25	6.4
t-Butyl Methyl Ether (MTBE)	ND	6.1	1.2	ND	6.1	1.2	ND	6.1	1.2	ND	31	6.1
Chloroform	14	8.2	1.1	ND	8.2	1.1	68	8.2	1.1	140	42	5.8
1,1,1-Trichloroethane	ND	9.2	1.0	ND	9.2	1.0	ND	9.2	1.0	ND	47	5.3
Carbon Tetrachloride	ND	11	1.2	ND	11	1.2	ND	11	1.2	ND	54	6.2
Benzene	ND	5.4	1.1	1.2 J	5.4	1.1	1.8 J	5.4	1.1	ND	27	5.4
1,2-Dichloroethane	ND	6.8	1.8	ND	6.8	1.8	ND	6.8	1.8	ND	35	9.1
Trichloroethene	59	9.1	1.4	ND	9.1	1.4	160	9.1	1.4	530	46	7.2
1,2-Dichloropropane	ND	7.8	0.99	ND	7.8	0.99	ND	7.8	0.99	ND	40	5.0
Bromodichloromethane	ND	11	1.7	ND	11	1.7	ND	11	1.7	ND	58	8.6
c-1,3-Dichloropropene	ND	7.6	1.7	ND	7.6	1.7	ND	7.6	1.7	ND	39	8.8
4-Methyl-2-Pentanone	ND	6.9	0.40	ND	6.9	0.40	ND	6.9	0.40	13 J	35	2.0
Toluene	1.1 J	6.3	1.0	3.0 J	6.3	1.0	3.7 J	6.3	1.0	9.0 J	32	5.3
t-1,3-Dichloropropene	ND	7.6	2.0	ND	7.6	2.0	ND	7.6	2.0	ND	39	10
1,1,2-Trichloroethane	ND	9.2	1.9	ND	9.2	1.9	ND	9.2	1.9	ND	47	9.6
Tetrachloroethene	1,100	11	2.4	9.4 J	11	2.4	1,800	11	2.4	12,000	58	12
2-Hexanone	ND	6.9	0.98	ND	6.9	0.98	ND	6.9	0.98	ND	35	5.0
Dibromochloromethane	ND	14	2.5	ND	14	2.5	ND	14	2.5	ND	73	13
1,2-Dibromoethane	ND	13	1.7	ND	13	1.7	ND	13	1.7	ND	66	8.6
Chlorobenzene	ND	7.8	1.1	ND	7.8	1.1	ND	7.8	1.1	ND	40	5.7

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-05			C121505-06			C121505-07			C121505-08		
Client Sample I.D.:	OC_SSD_B-5_121411			OC_SSD_B-6_121411			OC_SSD_B-7_121411			OC_SSD_B-8_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111221MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			8.6		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	7.3	0.26	ND	7.3	0.26	0.55 J	7.3	0.26	ND	37	1.3
p,&m-Xylene	ND	7.3	1.7	ND	7.3	1.7	2.8 J	7.3	1.7	ND	37	8.5
o-Xylene	ND	7.3	1.0	ND	7.3	1.0	1.2 J	7.3	1.0	ND	37	5.1
Isopropanol	ND	21	9.5	160	21	9.5	10 J	21	9.5	ND	110	48
n-Hexane	ND	30	5.1	ND	30	5.1	ND	30	5.1	ND	150	26
1,4-Dioxane	ND	30	6.8	ND	30	6.8	ND	30	6.8	ND	150	35
Total VOC's	1,400			210			2,700			20,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	103%	70-130%	100%	70-130%	99%	70-130%	103%	70-130%
Toluene-d8	113%	70-130%	99%	70-130%	104%	70-130%	102%	70-130%
4-Bromofluorobenzene	102%	70-130%	114%	70-130%	103%	70-130%	98%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1-3-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-09			C121505-10			C121505-11			C121505-12		
Client Sample I.D.:	OC_SSD_B-9_121411			OC_SSD_B-10_121411			OC_SSD_B-11_121411			OC_SSD_B-12_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	7.2			2.4			25			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	ND	36	2.2	8.3 J	12	0.73	11 J	120	7.6	3.3 J	8.6	0.52
Chloromethane	ND	30	5.0	2.1 J	9.9	1.7	ND	100	17	2.2 J	7.2	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	50	6.5	ND	17	2.2	ND	180	23	ND	12	1.6
Vinyl Chloride	ND	18	4.1	ND	6.2	1.4	ND	65	14	ND	4.5	0.99
Bromomethane	ND	28	9.7	ND	9.4	3.2	ND	98	34	ND	6.8	2.3
Chloroethane	ND	19	14	ND	6.4	4.7	ND	67	50	ND	4.6	3.4
Trichlorofluoromethane (11)	170	41	17	270	14	5.5	2,000	140	58	ND	9.8	4.0
1,1-Dichloroethene	1,800	29	3.1	530	9.5	1.0	7,700	100	11	2.4 J	6.9	0.75
Carbon Disulfide	14 J	110	3.3	ND	37	1.1	29 J	390	12	1.6 J	27	0.81
1,1,2-Cl 1,2,2-F ethane (113)	470	55	13	2,200	18	4.2	10,000	190	45	12 J	13	3.1
Acetone	43 J	86	5.4	27 J	29	1.8	83 J	300	19	30	21	1.3
Methylene Chloride	ND	25	4.9	ND	8.4	1.6	ND	88	17	6.4	6.1	1.2
t-1,2-Dichloroethene	ND	29	4.6	ND	9.5	1.5	35 J	100	16	ND	6.9	1.1
1,1-Dichloroethane	16 J	29	3.5	4.0 J	9.7	1.2	52 J	100	12	ND	7.1	0.84
Vinyl Acetate	ND	130	4.4	ND	42	1.5	ND	440	15	ND	31	1.1
c-1,2-Dichloroethene	ND	29	6.3	2.7 J	9.5	2.1	240	100	22	ND	6.9	1.5
2-Butanone	ND	21	5.4	ND	7.1	1.8	ND	75	19	ND	5.1	1.3
t-Butyl Methyl Ether (MTBE)	ND	26	5.2	ND	8.7	1.7	ND	91	18	ND	6.3	1.2
Chloroform	99	35	4.9	110	12	1.6	550	120	17	1.4 J	8.5	1.2
1,1,1-Trichloroethane	ND	39	4.5	ND	13	1.5	ND	140	16	ND	9.5	1.1
Carbon Tetrachloride	ND	45	5.2	ND	15	1.7	ND	160	18	ND	11	1.3
Benzene	4.8 J	23	4.5	4.0 J	7.7	1.5	ND	81	16	1.4 J	5.6	1.1
1,2-Dichloroethane	ND	29	7.7	ND	9.7	2.6	ND	100	27	ND	7.1	1.9
Trichloroethene	730	39	6.0	120	13	2.0	2,800	140	21	ND	9.4	1.5
1,2-Dichloropropane	ND	33	4.2	ND	11	1.4	ND	120	15	ND	8.1	1.0
Bromodichloromethane	ND	48	7.3	ND	16	2.4	ND	170	25	ND	12	1.8
c-1,3-Dichloropropene	ND	33	7.4	ND	11	2.5	ND	110	26	ND	7.9	1.8
4-Methyl-2-Pentanone	19 J	30	1.7	ND	9.9	0.57	ND	100	6.0	ND	7.1	0.41
Toluene	12 J	27	4.5	4.7 J	9.1	1.5	22 J	95	16	3.5 J	6.6	1.1
t-1,3-Dichloropropene	ND	33	8.7	ND	11	2.9	ND	110	30	ND	7.9	2.1
1,1,2-Trichloroethane	ND	39	8.1	ND	13	2.7	ND	140	28	ND	9.5	1.9
Tetrachloroethene	10,000	49	10	3,900	16	3.4	40,000	170	36	33	12	2.5
2-Hexanone	ND	30	4.2	ND	9.9	1.4	ND	100	15	ND	7.1	1.0
Dibromochloromethane	ND	62	11	ND	21	3.5	ND	220	37	ND	15	2.6
1,2-Dibromoethane	ND	55	7.3	ND	19	2.4	ND	190	25	ND	13	1.8
Chlorobenzene	ND	33	4.8	ND	11	1.6	ND	120	17	ND	8.0	1.2

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-09			C121505-10			C121505-11			C121505-12		
Client Sample I.D.:	OC_SSD_B-9_121411			OC_SSD_B-10_121411			OC_SSD_B-11_121411			OC_SSD_B-12_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	7.2			2.4			25			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	3.4 J	31	1.1	ND	10	0.38	ND	110	4.0	ND	7.6	0.27
p,&m-Xylene	19 J	31	7.2	ND	10	2.4	ND	110	25	2.0 J	7.6	1.7
o-Xylene	9.6 J	31	4.3	ND	10	1.4	ND	110	15	ND	7.6	1.0
Isopropanol	ND	89	41	ND	30	14	ND	310	140	32	21	9.8
n-Hexane	ND	130	22	ND	42	7.3	ND	450	77	ND	31	5.3
1,4-Dioxane	ND	130	29	ND	43	9.7	ND	460	100	ND	31	7.1
Total VOC's	13,000			7,200			64,000			130		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	101%	70-130%	109%	70-130%	104%	70-130%	102%	70-130%
Toluene-d8	98%	70-130%	95%	70-130%	98%	70-130%	103%	70-130%
4-Bromofluorobenzene	97%	70-130%	100%	70-130%	98%	70-130%	111%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1-3-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-13			C121505-14			C121505-15			C121505-16		
Client Sample I.D.:	OC_SSD_B-13_121411			OC_SSD_B-14_121411			OC_SSD_B-15_121411			OC_SSD_B-16_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.8			1.7			1.8			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.1 J	8.9	0.54	3.4 J	8.3	0.51	4.2 J	8.9	0.54	2.9 J	8.5	0.52
Chloromethane	2.0 J	7.5	1.2	ND	7.0	1.2	ND	7.5	1.2	ND	7.1	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	13	1.6	ND	12	1.5	ND	13	1.6	ND	12	1.5
Vinyl Chloride	ND	4.6	1.0	ND	4.3	0.95	ND	4.6	1.0	ND	4.4	0.97
Bromomethane	ND	7.0	2.4	ND	6.5	2.3	ND	7.0	2.4	ND	6.7	2.3
Chloroethane	ND	4.8	3.5	ND	4.4	3.3	ND	4.8	3.5	ND	4.5	3.4
Trichlorofluoromethane (11)	ND	10	4.2	99	9.5	3.9	81	10	4.2	6.1 J	9.6	3.9
1,1-Diehloroethene	5.2 J	7.2	0.77	400	6.7	0.72	78	7.2	0.77	46	6.8	0.73
Carbon Disulfide	1.1 J	28	0.83	ND	26	0.78	ND	28	0.83	0.83 J	27	0.79
1,1,2-Cl 1,2,2-F ethane (113)	14	14	3.2	460	13	3.0	730	14	3.2	14	13	3.0
Acetone	49	21	1.3	22	20	1.3	26	21	1.3	18 J	20	1.3
Methylene Chloride	7.6	6.3	1.2	ND	5.9	1.1	3.1 J	6.3	1.2	ND	6.0	1.2
t-1,2-Dichloroethene	ND	7.2	1.2	ND	6.7	1.1	ND	7.2	1.2	ND	6.8	1.1
1,1-Dichloroethane	ND	7.3	0.87	ND	6.8	0.81	ND	7.3	0.87	ND	6.9	0.82
Vinyl Acetate	ND	32	1.1	ND	30	1.0	ND	32	1.1	ND	30	1.0
c-1,2-Dichloroethene	ND	7.2	1.6	ND	6.7	1.5	ND	7.2	1.6	ND	6.8	1.5
2-Butanone	ND	5.3	1.3	ND	5.0	1.3	ND	5.3	1.3	ND	5.1	1.3
t-Butyl Methyl Ether (MTBE)	ND	6.5	1.3	ND	6.1	1.2	ND	6.5	1.3	ND	6.2	1.2
Chloroform	2.2 J	8.8	1.2	6.7 J	8.2	1.1	ND	8.8	1.2	16	8.4	1.2
1,1,1-Trichloroethane	ND	9.8	1.1	ND	9.2	1.0	ND	9.8	1.1	ND	9.3	1.1
Carbon Tetrachloride	ND	11	1.3	ND	11	1.2	ND	11	1.3	ND	11	1.2
Benzene	1.2 J	5.8	1.1	ND	5.4	1.1	ND	5.8	1.1	ND	5.5	1.1
1,2-Dichloroethane	ND	7.3	1.9	ND	6.8	1.8	ND	7.3	1.9	ND	6.9	1.8
Trichloroethene	7.3 J	9.7	1.5	110	9.1	1.4	5.9 J	9.7	1.5	60	9.2	1.4
1,2-Dichloropropane	ND	8.3	1.1	ND	7.8	0.99	ND	8.3	1.1	ND	7.9	1.0
Bromodichloromethane	ND	12	1.8	ND	11	1.7	ND	12	1.8	ND	11	1.7
c-1,3-Dichloropropene	ND	8.2	1.8	ND	7.6	1.7	ND	8.2	1.8	ND	7.8	1.7
4-Methyl-2-Pentanone	ND	7.4	0.43	ND	6.9	0.40	ND	7.4	0.43	ND	7.0	0.40
Toluene	4.0 J	6.8	1.1	1.8 J	6.3	1.0	2.5 J	6.8	1.1	1.5 J	6.5	1.1
t-1,3-Dichloropropene	ND	8.2	2.2	ND	7.6	2.0	ND	8.2	2.2	ND	7.8	2.1
1,1,2-Trichloroethane	ND	9.8	2.0	ND	9.2	1.9	ND	9.8	2.0	ND	9.3	1.9
Tetrachloroethene	270	12	2.5	2,100	11	2.4	190	12	2.5	1,000	12	2.4
2-Hexanone	ND	7.4	1.1	ND	6.9	0.98	ND	7.4	1.1	ND	7.0	1.00
Dibromochloromethane	ND	15	2.6	ND	14	2.5	ND	15	2.6	ND	15	2.5
1,2-Dibromoethane	ND	14	1.8	ND	13	1.7	ND	14	1.8	ND	13	1.7
Chlorobenzene	ND	8.3	1.2	ND	7.8	1.1	ND	8.3	1.2	ND	7.9	1.1

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-13			C121505-14			C121505-15			C121505-16		
Client Sample I.D.:	OC_SSD_B-13_121411			OC_SSD_B-14_121411			OC_SSD_B-15_121411			OC_SSD_B-16_121411		
Date Sampled:	12/14/11			12/14/11			12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11			12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.8			1.7			1.8			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	7.8	0.28	ND	7.3	0.26	ND	7.8	0.28	ND	7.4	0.27
p,&m-Xylene	2.4 J	7.8	1.8	ND	7.3	1.7	ND	7.8	1.8	ND	7.4	1.7
o-Xylene	ND	7.8	1.1	ND	7.3	1.0	ND	7.8	1.1	ND	7.4	1.0
Isopropanol	43	22	10	16 J	21	9.5	22	22	10	15 J	21	9.6
n-Hexane	ND	32	5.5	ND	30	5.1	ND	32	5.5	ND	30	5.2
1,4-Dioxane	ND	33	7.3	ND	30	6.8	ND	33	7.3	ND	31	6.9
Total VOC's	410			3,200			1,100			1,200		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	103%	70-130%	105%	70-130%	108%	70-130%	108%	70-130%
Toluene-d8	100%	70-130%	98%	70-130%	102%	70-130%	94%	70-130%
4-Bromofluorobenzene	99%	70-130%	96%	70-130%	98%	70-130%	97%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
*** = Surrogate recovery exceeds QC Criteria**

Reviewed/Approved By: _____ **Date** 1-3-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-17			C121505-18		
Client Sample I.D.:	OC_SSD_B-17_121411			OC_SSD_B-18_121411		
Date Sampled:	12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT		
Dilution Factor:	120			2.4		
ANALYTE	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**
Dichlorodifluoromethane (12)	96 J	580	36	3.3 J	12	0.73
Chloromethane	ND	490	81	ND	9.9	1.7
1,2-Cl-1,1,2,2-F ethane (114)	ND	820	110	ND	17	2.2
Vinyl Chloride	ND	300	67	ND	6.2	1.4
Bromomethane	ND	460	160	ND	9.4	3.2
Chloroethane	ND	310	230	ND	6.4	4.7
Trichlorofluoromethane (11)	18,000	660	270	86	14	5.5
1,1-Dichloroethene	48,000	470	50	420	9.5	1.0
Carbon Disulfide	130 J	1,800	54	1.9 J	37	1.1
1,1,2-Cl 1,2,2-F ethane (113)	97,000	900	210	260	18	4.2
Acetone	520 J	1,400	88	23 J	29	1.8
Methylene Chloride	ND	410	80	ND	8.4	1.6
t-1,2-Dichloroethene	160 J	470	76	ND	9.5	1.5
1,1-Dichloroethane	330 J	480	57	2.5 J	9.7	1.2
Vinyl Acetate	ND	2,100	72	ND	42	1.5
c-1,2-Dichloroethene	ND	470	100	ND	9.5	2.1
2-Butanone	ND	350	88	ND	7.1	1.8
t-Butyl Methyl Ether (MTBE)	ND	430	84	ND	8.7	1.7
Chloroform	4,800	580	80	35	12	1.6
1,1,1-Trichloroethane	ND	640	73	ND	13	1.5
Carbon Tetrachloride	ND	740	85	ND	15	1.7
Benzene	79 J	380	74	ND	7.7	1.5
1,2-Dichloroethane	ND	480	130	ND	9.7	2.6
Trichloroethene	11,000	630	98	170	13	2.0
1,2-Dichloropropane	ND	550	69	ND	11	1.4
Bromodichloromethane	ND	790	120	ND	16	2.4
c-1,3-Dichloropropene	ND	540	120	ND	11	2.5
4-Methyl-2-Pentanone	ND	480	28	ND	9.9	0.57
Toluene	140 J	440	73	1.9 J	9.1	1.5
t-1,3-Dichloropropene	ND	540	140	ND	11	2.9
1,1,2-Trichloroethane	ND	640	130	ND	13	2.7
Tetrachloroethene	170,000	800	170	3,500	16	3.4
2-Hexanone	ND	480	69	ND	9.9	1.4
Dibromochloromethane	ND	1,000	170	ND	21	3.5
1,2-Dibromoethane	ND	910	120	ND	19	2.4
Chlorobenzene	ND	540	78	ND	11	1.6

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121505-17			C121505-18		
Client Sample I.D.:	OC_SSD_B-17_121411			OC_SSD_B-18_121411		
Date Sampled:	12/14/11			12/14/11		
Date Analyzed:	12/22/11			12/22/11		
QC Batch No.:	111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT		
Dilution Factor:	120			2.4		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	510	18	ND	10	0.38
p,&m-Xylene	230 J	510	120	ND	10	2.4
o-Xylene	ND	510	71	ND	10	1.4
Isopropanol	ND	1,400	660	ND	30	14
n-Hexane	ND	2,100	360	ND	42	7.3
1,4-Dioxane	ND	2,100	480	ND	43	9.7
Total VOC's	350,000			4,500		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	111%	70-130%	113%	70-130%
Toluene-d8	103%	70-130%	114%	70-130%
4-Bromofluorobenzene	95%	70-130%	96%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1-3-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111221MS3A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/21/11		12/21/11		12/21/11						
Data File ID:	21DEC007.D		21DEC005.D		21DEC006.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.5	95	8.0	80	17.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.9	99	8.2	82	18.4	70	130	30	Pass
Trichloroethene	0.0	10.0	7.8	78	7.0	70	11.7	70	130	30	Pass
Toluene	0.0	10.0	8.2	82	7.7	77	6.0	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.9	89	8.3	83	7.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 1-3-12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111222MS3A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/22/11		12/22/11		12/22/11						
Data File ID:	22DEC006.D		22DEC004.D		22DEC005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.7	107	10.5	105	1.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.1	101	10.0	100	1.2	70	130	30	Pass
Trichloroethene	0.0	10.0	10.0	100	9.8	98	1.9	70	130	30	Pass
Toluene	0.0	10.0	9.7	97	9.7	97	0.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.6	86	8.9	89	2.9	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 1-3-12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : C:\GCMS-C\data\111219\21DEC001.D
Tune Time : 21 Dec 2011 7:53 am

Daily Calibration File : C:\GCMS-C\data\111219\21DEC002.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					48098	237598	146507
21DEC005.D							
	LCS	93	94	95	49760	244234	147075
21DEC006.D							
	LCSD	93	98	96	48874	240535	150789
21DEC007.D							
	METHOD BLA	102	99	108	49386	226631	146744
21DEC020.D							
	C121505-01	95	103	100	42750	212181	138695
21DEC021.D							
	C121505-02	100	101	102	43677	205336	136855
21DEC022.D							
	C121505-03	98	101	98	41913	209975	140125
21DEC023.D							
	C121505-04	96	107	99	41903	205065	133035
21DEC024.D							
	C121505-05	103	113	102	42242	201115	135232

(fails) - fails 24hr time check * - fails criteria

Created: Tue Jan 03 17:35:14 2012 Instrument #1

GC/MS QA-QC Check Report

Tune File : C:\GCMS-C\data\111219\22DEC002.D
Tune Time : 22 Dec 2011 2:48 am

Daily Calibration File : C:\GCMS-C\data\111219\22DEC003.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					43526	213609	136679
22DEC008.D	C121505-07	99	104	103	42617	202592	135975
22DEC009.D	C121505-06	100	99	114	41932	194765	121433
22DEC010.D	C121505-08	103	102	98	41599	191514	134013
22DEC011.D	C121505-09	101	98	97	41548	186969	128061
22DEC013.D	C121505-11	104	98	98	40015	178080	115831
22DEC014.D	C121505-12	102	103	111	39796	185978	114985
22DEC015.D	C121505-13	103	100	99	40528	190665	129295
22DEC016.D	C121505-14	105	98	96	41845	186715	123926
22DEC017.D	C121505-15	108	102	98	40031	180938	122134
22DEC018.D	C121505-16	108	94	97	40079	177834	112435
22DEC019.D	C121505-17	111	103	95	39277	175142	120712
22DEC020.D	C121505-18	113	114	96	37664	168553	116179
22DEC021.D	C121505-10	109	95	100	38116	171655	109795

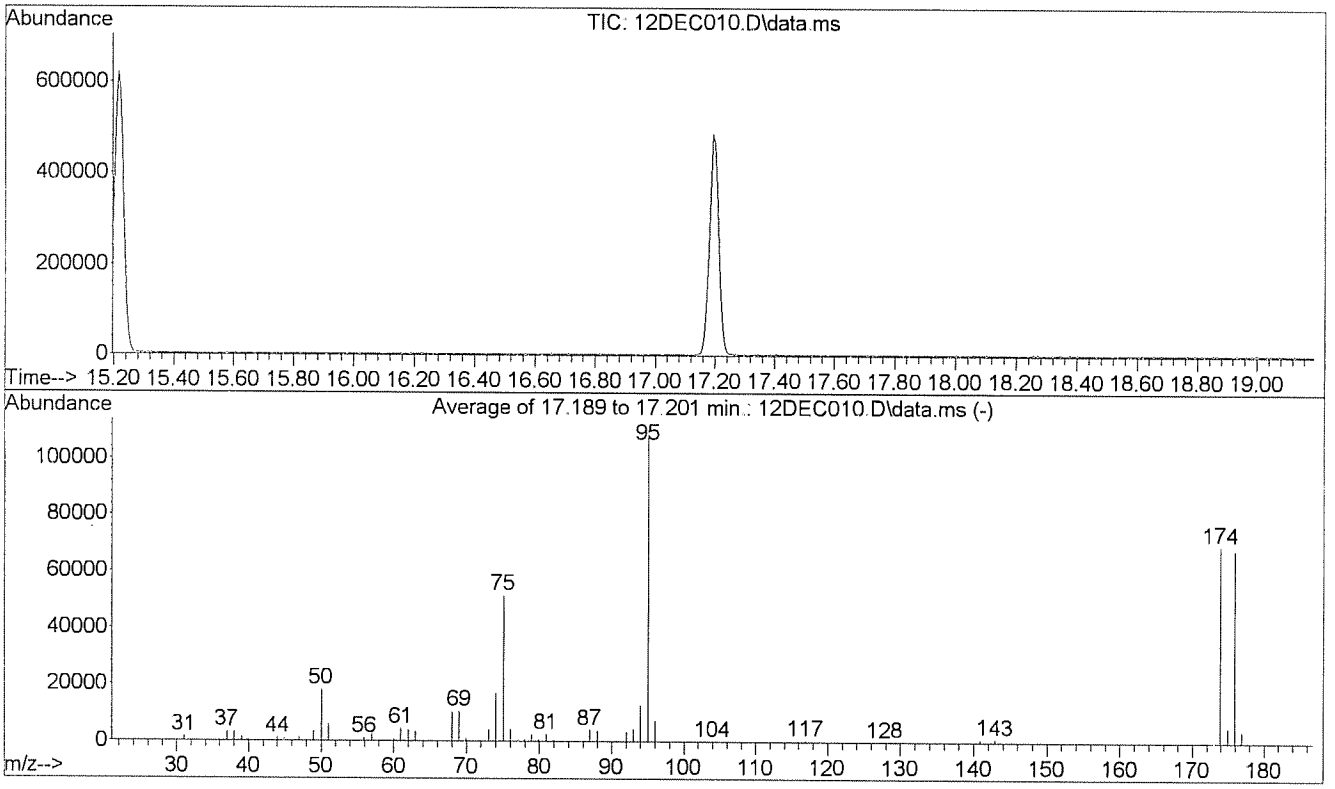
(fails) - fails 24hr time check * - fails criteria

Created: Tue Jan 03 17:38:30 2012 Instrument #1

Data Path : C:\GCMS-C\data\111212\
Data File : 12DEC010.D
Acq On : 12 Dec 2011 8:41 am
Operator : DT
Sample : BFB
Misc : 150ML
ALS Vial : 3 Sample Multiplier: 0.2

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011



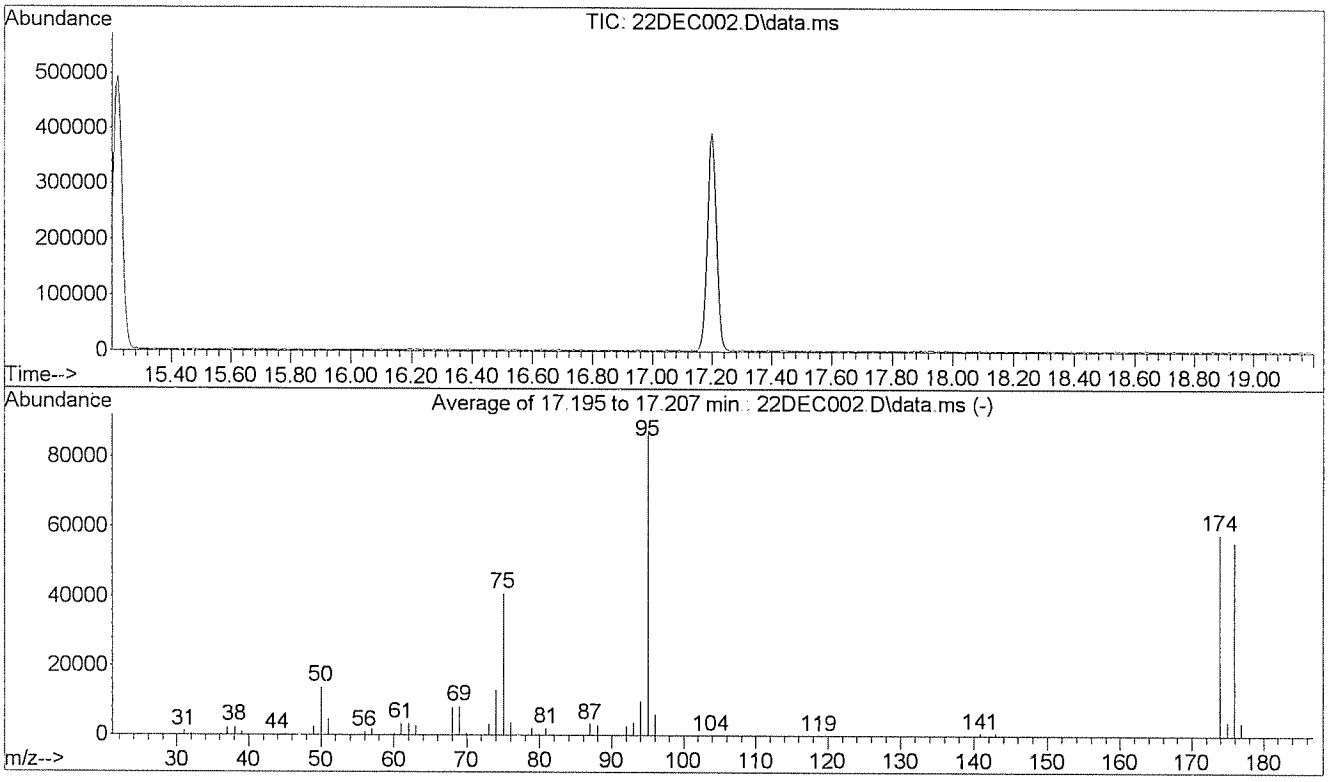
AutoFind: Scans 2239, 2240, 2241; Background Corrected with Scan 2229

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	18101	PASS
75	95	30	60	47.3	51386	PASS
95	95	100	100	100.0	108648	PASS
96	95	5	9	6.8	7406	PASS
173	174	0.00	2	0.6	409	PASS
174	95	50	100	64.0	69485	PASS
175	174	5	9	7.9	5523	PASS
176	174	93	101	98.1	68176	PASS
177	176	5	9	6.0	4065	PASS

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC002.D
Acq On : 22 Dec 2011 2:48 am
Operator : DT
Sample : BFB
Misc : 150 ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\AL111212.M
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:28:01 2011



AutoFind: Scans 2240, 2241, 2242; Background Corrected with Scan 2231

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	13857	PASS
75	95	30	60	46.7	40933	PASS
95	95	100	100	100.0	87690	PASS
96	95	5	9	7.0	6160	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.2	58064	PASS
175	174	5	9	7.2	4193	PASS
176	174	95	101	96.0	55762	PASS
177	176	5	9	6.8	3781	PASS

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011
Response Via : Initial Calibration

Calibration Files
1 =12DEC039.D 5 =12DEC038.D 10 =12DEC022.D 25 =12DEC023.D
100 =12DEC024.D 250 =12DEC025.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluo...	7.326	7.093	7.651	6.731	5.659	2.813	6.212	28.99
3)		Chloromethane	2.676	1.889	1.935	1.746	1.622	1.052	1.820	28.92
4)		1,2-Cl-1,1,2,2...	7.128	6.817	7.362	6.642	5.644	3.192	6.131	25.39
5)		Vinyl Chloride	1.744	1.965	1.948	1.824	1.729	1.171	1.730	16.84
6)		Bromomethane	1.724	1.364	1.299	1.286	1.087	0.837	1.266	23.34
7)		Chloroethane	0.836	0.757	0.821	0.816	0.693	0.520	0.740	16.29
8)		Trichlorofluor...	7.117	6.634	7.403	5.250	6.093	3.529	6.005	23.90
9)	M	1,1-Dichloroet...	4.198	3.961	4.202	3.807	3.353	2.090	3.602	22.33
10)		Carbon Disulfide	7.269	6.847	7.206	6.683	5.626	3.265	6.149	24.91
11)		1,1,2-Cl 1,2,2...	3.652	3.442	3.717	3.388	3.129	1.987	3.219	19.84
12)		Acetone	4.809	3.781	3.391	2.938	2.587	1.667	3.196	33.59
13)	M	Methylene Chlo...	2.216	2.036	2.321	2.043	1.947	1.282	1.974	18.51
14)		t-1,2-Dichloro...	1.960	2.114	2.264	2.174	2.084	1.382	1.996	15.90
15)		1,1-Dichloroet...	4.338	4.333	4.610	4.222	3.860	2.366	3.955	20.62
16)		Vinyl Acetate	2.497	2.556	2.798	2.611	2.635	1.816	2.485	13.81
17)		c-1,2-Dichloro...	2.146	2.306	2.398	2.315	2.162	1.385	2.119	17.56
18)		2-Butanone	1.073	1.176	1.191	1.146	1.038	0.633	1.043	20.09
19)		t-Butyl Methyl...	4.074	4.567	4.633	4.335	3.771	2.608	3.998	18.82
20)	t	Chloroform	5.097	5.068	5.363	5.018	4.625	2.810	4.663	20.12
21)		1,1,1-Trichlor...	4.358	4.531	5.152	4.911	4.822	3.094	4.478	16.38
22)		1,1-Dichloropr...	2.778	2.815	3.355	3.146	2.885	1.797	2.796	19.21
23)	t	Carbon Tetrach...	1.301	2.454	3.123	3.393	3.962	2.632	2.811	32.60
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.673	1.571	1.647	1.521	1.438	1.062	1.486	15.09
26)	S	1,2-Dichloroet...	0.301	0.327	0.315	0.327	0.369	0.451	0.348	15.86
27)		1,2-Dichloroet...	0.591	0.640	0.658	0.631	0.614	0.529	0.611	7.53
28)	M	Trichloroethene	0.989	0.830	0.801	0.718	0.675	0.531	0.757	20.50
29)		1,2-Dichloropr...	0.523	0.543	0.569	0.542	0.532	0.450	0.526	7.71
30)		Bromodichlorom...	0.743	0.911	0.972	0.962	0.981	0.787	0.893	11.51
31)		Dibromomethane	0.408	0.500	0.524	0.517	0.511	0.437	0.483	9.97
32)		c-1,3-Dichloro...	0.431	0.588	0.633	0.671	0.760	0.640	0.620	17.57
33)		4-Methyl-2-Pen...	0.790	0.837	0.837	0.808	0.841	0.692	0.801	7.14
34)	S	Toluene-d8	0.777	0.779	0.750	0.798	0.800	0.857	0.794	4.50
35)	M	Toluene	1.678	1.686	1.666	1.665	1.632	1.197	1.587	12.11
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloro...	0.360	0.567	0.644	0.767	0.991	0.859	0.698	32.08
38)		1,1,2-Trichlor...	1.037	1.099	1.104	1.012	0.977	0.777	1.001	12.04
39)		1,3-Dichloropr...	1.132	1.247	1.397	1.325	1.269	1.001	1.228	11.56
40)		Tetrachloroethene	1.141	1.204	1.214	1.123	1.087	0.856	1.104	11.86
41)		2-Hexanone	0.681	0.831	0.855	0.808	0.826	0.689	0.782	9.76

Method Path : C:\GCMS-C\methods\
Method File : TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

42)		Dibromochlorom...	0.916	1.297	1.333	1.366	1.459	1.131	1.250	15.69
43)	t	1,2-Dibromoethane	1.283	1.431	1.441	1.390	1.444	1.110	1.350	9.79
44)		Chlorobenzene	2.054	2.107	1.944	1.863	1.871	1.420	1.877	13.00
45)		1,1,1,2-Tetrac...	0.593	0.765	0.865	0.849	0.906	0.757	0.789	14.22
46)	T	Ethylbenzene	2.598	2.813	2.687	2.688	2.599	1.792	2.530	14.61
47)	T	p,&m-Xylene	2.140	2.292	2.081	1.965	1.729	1.047	1.876	23.86
48)	T	o-Xylene	2.031	2.168	1.862	1.836	1.917	1.492	1.884	12.09
49)		Styrene	1.242	1.305	1.262	1.284	1.436	1.175	1.284	6.77
50)		Bromoform	0.587	0.952	0.886	0.958	1.177	0.963	0.920	20.75
51)		Isopropyl benzene	1.953	2.008	2.179	2.079	2.005	1.584	1.968	10.35
52)	M	1,1,2,2-Tetrac...	0.981	1.602	1.217	1.301	1.540	1.259	1.317	17.23
53)	S	4-Bromofluorob...	0.344	0.335	0.342	0.342	0.337	0.334	0.339	1.21
54)		Benzyl Chloride	0.993	0.657	0.428	0.426	1.218	1.157	0.813	43.88
55)		1,2,3-Trichlor...	0.487	0.563	0.584	0.546	0.562	0.495	0.539	7.31
56)		n-Propyl Benzene	2.702	2.571	2.748	2.359	2.187	1.542	2.351	19.12
57)		Bromobenzene	1.494	1.467	1.588	1.486	1.436	1.084	1.426	12.28
58)		4-Ethyl Toluene	3.523	3.649	2.888	2.456	2.324	1.700	2.757	27.12
59)	T	1,3,5-Trimethy...	3.331	3.902	3.129	2.798	2.592	1.647	2.900	26.34
60)		2-Chlorotoluene	2.367	2.298	2.303	2.123	1.955	1.383	2.072	17.83
61)		4-Chlorotoluene	2.121	1.998	2.175	1.884	1.825	1.323	1.888	16.28
62)		tert-Butylbenzene	2.329	2.624	2.581	2.427	2.296	1.683	2.323	14.63
63)		1,2,4-Trimethy...	3.231	3.930	2.961	2.683	2.563	1.623	2.832	27.07
64)		sec-Butylbenzene	3.196	3.199	3.212	2.600	2.065	1.430	2.617	28.30
65)		p-Isopropyltol...	2.289	2.732	2.857	2.465	1.911	1.317	2.262	25.27
66)		1,3-Dichlorobe...	2.059	1.883	1.339	1.158	1.239	0.947	1.438	30.36
67)		1,4-Dichlorobe...	2.141	1.958	1.422	1.161	1.246	0.940	1.478	31.99
68)		n-Butylbenzene	2.442	3.015	3.087	2.732	2.182	1.402	2.477	25.34
69)		1,2-Dichlorobe...	1.894	1.724	1.182	0.993	1.127	0.899	1.303	31.29
70)		1,2-Dibromo-3-...	0.304	0.258	0.226	0.231	0.343	0.331	0.282	17.93
71)		1,2,4-Trichlor...	0.891	1.045	0.637	0.659	1.276	0.987	0.916	26.56
72)		Hexachlorobuta...	0.880	0.930	0.561	0.515	0.717	0.564	0.695	25.58

(#) = Out of Range

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : AL111212.M
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:28:01 2011
Response Via : Initial Calibration

Calibration Files
1 =12DEC039.D 5 =12DEC038.D 10 =12DEC022.D 25 =12DEC023.D
100 =12DEC024.D 250 =12DEC025.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Propene	1.592	1.493	1.467	1.371	1.227	0.763	1.319	22.68
3)		isobutane	1.728	1.357	1.634	1.271	1.471	0.941	1.400	20.09
4)		1,3-Butadiene	0.774	0.965	1.032	0.980	0.959	0.689	0.900	15.08
5)		Methanol		1.151	0.607	0.538	0.419	0.264	0.596	56.48
6)		Acetaldehyde		0.948	0.756	0.657	0.524	0.326	0.642	36.52
7)		Ethanol		0.797	0.797	0.587	0.730		0.728	13.60
8)		Vinyl Bromide	1.852	1.307	2.131	1.473	1.907	0.887	1.593	28.76
9)		Isopropanol		3.147	3.068	2.876	2.662	1.763	2.703	20.64
10)		Acrolein	0.643	0.830	0.762	0.697	0.714	0.516	0.694	15.48
11)		t-Butanol	2.587	2.873	2.931	2.868	2.396	1.360	2.503	23.83
12)		Allyl Chloride	1.258	1.520	1.684	1.686	1.724	1.143	1.503	16.44
13)		Acrylonitrile	0.935	1.170	1.395	1.381	1.375	0.914	1.195	18.88
14)		t-Butyl methyl...	4.074	4.567	4.633	4.335	3.772	2.614	3.999	18.75
15)		n-Hexane	3.005	3.301	3.637	3.526	3.335	2.147	3.159	17.12
16)		Isopropyl ether	4.794	5.059	5.713	5.417	5.045	2.974	4.834	19.99
17)		t-Butyl ethyl ...	1.174	1.564	1.510	1.697	1.717	1.328	1.498	14.19
18)		Ethyl Acetate		0.395	0.479	0.521	0.507	0.340	0.448	17.36
19)		2,2-Dichloropr...	0.490	0.743	0.937	1.116	1.455	1.260	1.000	35.18
20)		Tetrahydrofuran	1.031	1.077	1.143	1.102	1.061	0.728	1.024	14.64
21)		Cyclohexane	2.867	3.165	3.627	3.439	3.261	2.059	3.070	18.16
22)		2,2,4-Trimethy...	0.870	0.899	1.051	0.986	0.880	0.496	0.864 E1	22.37
23)	I	1,4-Difluorobenzene	----------ISTD----------							
24)	S	1,2-Dichloroet...	0.301	0.326	0.315	0.329	0.369	0.449	0.348	15.57
25)		t-Amyl methyl ...	0.541	0.630	0.596	0.676	0.745	0.775	0.660	13.54
26)		Heptane	0.349	0.413	0.430	0.433	0.452	0.402	0.413	8.72
27)		1,4-Dioxane	0.343	0.368	0.380	0.373	0.400	0.340	0.367	6.24
28)		2-chloroethylv...					0.001	0.001	0.001	11.84
29)	S	Toluene-d8	0.777	0.779	0.750	0.798	0.800	0.857	0.794	4.50
30)		Chlorobenzene-d5	----------ISTD----------							
31)		Cyclohexanone	0.467	0.628	0.773	0.768	0.786	0.655	0.679	18.19
32)	S	4-Bromofluorob...	0.344	0.336	0.342	0.342	0.337	0.336	0.339	1.04
33)		Dicyclopentadiene		0.009	0.015	0.013	0.012	0.011	0.012	18.24
34)		Naphthalene	1.793	2.449	1.427	1.575	3.074	1.990	2.051	29.98
35)		1,2,3-Trichlor...	0.891	1.046	0.637	0.658	1.278	0.993	0.917	26.64

(#) = Out of Range

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC002.D
Acq On : 21 Dec 2011 9:22 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:48:26 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	92	-0.02
2		Dichlorodifluoromethane (12	6.212	6.968	-12.2	84	0.00
3		Chloromethane	1.820	1.764	3.1	84	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.131	6.778	-10.6	85	-0.01
5		Vinyl Chloride	1.730	1.884	-8.9	89	0.00
6		Bromomethane	1.266	1.345	-6.2	95	-0.01
7		Chloroethane	0.740	0.807	-9.1	91	-0.02
8		Trichlorofluoromethane (11)	6.005	5.604	6.7	70	-0.02
9	M	1,1-Dichloroethene	3.602	3.922	-8.9	86	-0.02
10		Carbon Disulfide	6.149	6.813	-10.8	87	-0.02
11		1,1,2-Cl 1,2,2-F ethane (11	3.219	3.472	-7.9	86	-0.02
12		Acetone	3.196	3.112	2.6	85	-0.03
13	M	Methylene Chloride	1.974	2.079	-5.3	82	-0.02
14		t-1,2-Dichloroethene	1.996	2.130	-6.7	87	-0.02
15		1,1-Dichloroethane	3.955	4.162	-5.2	83	-0.02
16		Vinyl Acetate	2.485	2.486	-0.0	82	-0.02
17		c-1,2-Dichloroethene	2.119	2.254	-6.4	87	-0.02
18		2-Butanone	1.043	1.125	-7.9	87	-0.02
19		t-Butyl Methyl Ether	3.998	4.330	-8.3	86	-0.02
20	t	Chloroform	4.663	5.086	-9.1	87	-0.02
21		1,1,1-Trichloroethane	4.478	4.915	-9.8	88	-0.01
22		1,1-Dichloropropene	2.796	3.226	-15.4	89	-0.02
23	t	Carbon Tetrachloride	2.811	3.022	-7.5	89	-0.01
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	-0.01
25	T	Benzene	1.486	1.525	-2.6	86	-0.02
26	S	1,2-Dichloroethane-d4	0.348	0.310	10.9	92	-0.02
27		1,2-Dichloroethane	0.611	0.615	-0.7	87	-0.01
28	M	Trichloroethene	0.757	0.750	0.9	87	-0.01
29		1,2-Dichloropropane	0.526	0.523	0.6	85	-0.01
30		Bromodichloromethane	0.893	0.946	-5.9	90	-0.01
31		Dibromomethane	0.483	0.496	-2.7	88	-0.01
32		c-1,3-Dichloropropene	0.620	0.575	7.3	85	-0.01
33		4-Methyl-2-Pentanone	0.801	0.765	4.5	85	0.00
34	S	Toluene-d8	0.794	0.777	2.1	96	-0.01
35	M	Toluene	1.587	1.622	-2.2	91	-0.01
36	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC002.D
Acq On : 21 Dec 2011 9:22 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:48:26 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37		t-1,3-Dichloropropene	0.698	0.623	10.7	89	0.00
38		1,1,2-Trichloroethane	1.001	1.020	-1.9	85	0.00
39		1,3-Dichloropropane	1.228	1.310	-6.7	87	0.00
40		Tetrachloroethene	1.104	1.130	-2.4	86	0.00
41		2-Hexanone	0.782	0.776	0.8	84	-0.01
42		Dibromochloromethane	1.250	1.287	-3.0	89	0.00
43	t	1,2-Dibromoethane	1.350	1.384	-2.5	89	0.00
44		Chlorobenzene	1.877	1.873	0.2	89	0.00
45		1,1,1,2-Tetrachloroethane	0.789	0.815	-3.3	87	0.00
46	T	Ethylbenzene	2.530	2.474	2.2	85	0.00
47	T	p,&m-Xylene	1.876	1.961	-4.5	87	0.00
48	T	o-Xylene	1.884	1.768	6.2	88	0.00
49		Styrene	1.284	1.177	8.3	86	0.00
50		Bromoform	0.920	0.837	9.0	87	0.00
51		Isopropyl benzene	1.968	2.032	-3.3	86	0.00
52	M	1,1,2,2-Tetrachloroethane	1.317	1.220	7.4	93	0.00
53	S	4-Bromofluorobenzene	0.339	0.298	12.1	80	0.00
54		Benzyl Chloride	0.813	0.407	49.9#	88	0.00
55		1,2,3-Trichloropropane	0.539	0.555	-3.0	88	0.00
56		n-Propyl Benzene	2.351	2.676	-13.8	90	0.00
57		Bromobenzene	1.426	1.489	-4.4	87	0.00
58		4-Ethyl Toluene	2.757	2.719	1.4	87	0.00
59	T	1,3,5-Trimethylbenzene	2.900	2.947	-1.6	87	0.00
60		2-Chlorotoluene	2.072	2.289	-10.5	92	0.00
61		4-Chlorotoluene	1.888	2.062	-9.2	88	0.00
62		tert-Butylbenzene	2.323	2.530	-8.9	90	0.00
63		1,2,4-Trimethylbenzene	2.832	2.976	-5.1	93	0.00
64		sec-Butylbenzene	2.617	3.222	-23.1	93	0.00
65		p-Isopropyltoluene	2.262	2.842	-25.6	92	0.00
66		1,3-Dichlorobenzene	1.438	1.321	8.1	91	0.00
67		1,4-Dichlorobenzene	1.478	1.355	8.3	88	0.00
68		n-Butylbenzene	2.477	2.989	-20.7	89	0.00
69		1,2-Dichlorobenzene	1.303	1.160	11.0	91	0.00
70		1,2-Dibromo-3-chloropropane	0.282	0.228	19.1	93	0.00
71		1,2,4-Trichlorobenzene	0.916	0.606	33.8#	88	0.00
72		Hexachlorobutadiene	0.695	0.557	19.9	92	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC002.D
Acq On : 21 Dec 2011 9:22 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 09:54:21 2011
Quant Method : C:\GCMS-C\methods\AL111212.M
Quant Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 17:20:27 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	92	0.00
2		Propene	1.319	1.377	-4.4	86	-0.03
3		isobutane	1.400	1.449	-3.5	82	-0.02
4		1,3-Butadiene	0.900	1.009	-12.1	90	-0.03
5		Methanol	0.596	0.901	-51.2#	137	-0.04
6		Acetaldehyde	0.642	0.741	-15.4	90	-0.06
7		Ethanol	0.728	0.879	-20.7	102	-0.02
8		Vinyl Bromide	1.593	1.448	9.1	63	-0.02
9		Isopropanol	2.703	2.973	-10.0	89	-0.01
10		Acrolein	0.694	0.695	-0.1	84	-0.02
11		t-Butanol	2.503	2.738	-9.4	86	-0.04
12		Allyl Chloride	1.503	1.556	-3.5	85	-0.02
13		Acrylonitrile	1.195	1.318	-10.3	87	-0.02
14		t-Butyl methyl ether	3.999	4.330	-8.3	86	-0.02
15		n-Hexane	3.159	3.358	-6.3	85	-0.01
16		Isopropyl ether	4.834	5.184	-7.2	84	-0.02
17		t-Butyl ethyl ether	1.498	1.351	9.8	82	-0.01
18		Ethyl Acetate	0.448	0.403	10.0	78	0.00
19		2,2-Dichloropropane	1.000	0.831	16.9	82	0.00
20		Tetrahydrofuran	1.024	1.050	-2.5	85	-0.01
21		Cyclohexane	3.070	3.280	-6.8	83	0.00
22		2,2,4-Trimethylpentane	8.636	9.782	-13.3	86	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
24	S	1,2-Dichloroethane-d4	0.348	0.310	10.9	92	0.00
25		t-Amyl methyl ether	0.660	0.529	19.8	83	-0.01
26		Heptane	0.413	0.398	3.6	86	-0.02
27		1,4-Dioxane	0.367	0.343	6.5	84	-0.01
28		2-chloroethylvinylether	0.001	0.000	100.0#	0#	-11.72#
29	S	Toluene-d8	0.794	0.777	2.1	96	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
31		Cyclohexanone	0.679	0.688	-1.3	82	0.00
32	S	4-Bromofluorobenzene	0.339	0.298	12.1	80	0.00
33		Dicyclopentadiene	0.012	0.016	-33.3#	101	-0.02
34		Naphthalene	2.051	1.347	34.3#	87	0.00
35		1,2,3-Trichlorobenzene	0.917	0.606	33.9#	88	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC003.D
Acq On : 22 Dec 2011 3:26 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 03:52:23 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	83	-0.02
2		Dichlorodifluoromethane (12	6.212	7.118	-14.6	78	0.00
3		Chloromethane	1.820	1.825	-0.3	79	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.131	6.782	-10.6	77	0.00
5		Vinyl Chloride	1.730	1.898	-9.7	81	0.00
6		Bromomethane	1.266	1.290	-1.9	83	0.00
7		Chloroethane	0.740	0.820	-10.8	83	0.00
8		Trichlorofluoromethane (11)	6.005	7.116	-18.5	80	-0.01
9	M	1,1-Dichloroethene	3.602	4.135	-14.8	82	-0.01
10		Carbon Disulfide	6.149	6.671	-8.5	77	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	3.219	3.588	-11.5	80	-0.01
12		Acetone	3.196	3.280	-2.6	81	-0.01
13	M	Methylene Chloride	1.974	2.106	-6.7	76	0.00
14		t-1,2-Dichloroethene	1.996	2.067	-3.6	76	0.00
15		1,1-Dichloroethane	3.955	4.255	-7.6	77	-0.01
16		Vinyl Acetate	2.485	2.568	-3.3	77	-0.01
17		c-1,2-Dichloroethene	2.119	2.202	-3.9	77	-0.01
18		2-Butanone	1.043	1.029	1.3	72	-0.01
19		t-Butyl Methyl Ether	3.998	3.450	13.7	62	-0.01
20	t	Chloroform	4.663	5.062	-8.6	79	-0.01
21		1,1,1-Trichloroethane	4.478	4.541	-1.4	73	0.00
22		1,1-Dichloropropene	2.796	3.107	-11.1	77	0.00
23	t	Carbon Tetrachloride	2.811	2.835	-0.9	76	-0.01
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	-0.01
25	T	Benzene	1.486	1.481	0.3	75	-0.01
26	S	1,2-Dichloroethane-d4	0.348	0.329	5.5	87	-0.02
27		1,2-Dichloroethane	0.611	0.620	-1.5	79	-0.01
28	M	Trichloroethene	0.757	0.770	-1.7	80	0.00
29		1,2-Dichloropropane	0.526	0.510	3.0	75	0.00
30		Bromodichloromethane	0.893	0.908	-1.7	78	0.00
31		Dibromomethane	0.483	0.485	-0.4	77	-0.01
32		c-1,3-Dichloropropene	0.620	0.527	15.0	70	0.00
33		4-Methyl-2-Pentanone	0.801	0.766	4.4	77	0.00
34	S	Toluene-d8	0.794	0.779	1.9	87	-0.01
35	M	Toluene	1.587	1.591	-0.3	80	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC003.D
Acq On : 22 Dec 2011 3:26 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 03:52:23 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37		t-1,3-Dichloropropene	0.698	0.507	27.4	68	0.00
38		1,1,2-Trichloroethane	1.001	0.984	1.7	77	0.00
39		1,3-Dichloropropane	1.228	1.235	-0.6	76	0.00
40		Tetrachloroethene	1.104	1.124	-1.8	80	0.00
41		2-Hexanone	0.782	0.734	6.1	74	0.00
42		Dibromochloromethane	1.250	1.219	2.5	79	0.00
43	t	1,2-Dibromoethane	1.350	1.248	7.6	75	0.00
44		Chlorobenzene	1.877	1.801	4.0	80	0.00
45		1,1,1,2-Tetrachloroethane	0.789	0.793	-0.5	79	0.00
46	T	Ethylbenzene	2.530	2.398	5.2	77	0.00
47	T	p,&m-Xylene	1.876	1.842	1.8	76	0.00
48	T	o-Xylene	1.884	1.629	13.5	75	0.00
49		Styrene	1.284	1.082	15.7	74	0.00
50		Bromoform	0.920	0.797	13.4	77	0.00
51		Isopropyl benzene	1.968	1.930	1.9	76	0.00
52	M	1,1,2,2-Tetrachloroethane	1.317	1.045	20.7	74	0.00
53	S	4-Bromofluorobenzene	0.339	0.336	0.9	85	0.00
54		Benzyl Chloride	0.813	0.317	61.0#	64	0.00
55		1,2,3-Trichloropropane	0.539	0.534	0.9	79	0.00
56		n-Propyl Benzene	2.351	2.332	0.8	73	0.00
57		Bromobenzene	1.426	1.439	-0.9	78	0.00
58		4-Ethyl Toluene	2.757	2.644	4.1	79	0.00
59	T	1,3,5-Trimethylbenzene	2.900	2.777	4.2	76	0.00
60		2-Chlorotoluene	2.072	2.126	-2.6	80	0.00
61		4-Chlorotoluene	1.888	1.866	1.2	74	0.00
62		tert-Butylbenzene	2.323	2.334	-0.5	78	0.00
63		1,2,4-Trimethylbenzene	2.832	2.864	-1.1	83	0.00
64		sec-Butylbenzene	2.617	2.805	-7.2	75	0.00
65		p-Isopropyltoluene	2.262	2.650	-17.2	80	0.00
66		1,3-Dichlorobenzene	1.438	1.210	15.9	78	0.00
67		1,4-Dichlorobenzene	1.478	1.224	17.2	74	0.00
68		n-Butylbenzene	2.477	2.830	-14.3	79	0.00
69		1,2-Dichlorobenzene	1.303	1.048	19.6	76	0.00
70		1,2-Dibromo-3-chloropropane	0.282	0.197	30.1#	75	0.00
71		1,2,4-Trichlorobenzene	0.916	0.591	35.5#	80	0.00
72		Hexachlorobutadiene	0.695	0.533	23.3	82	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC003.D
Acq On : 22 Dec 2011 3:26 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 17:36:24 2012
Quant Method : C:\GCMS-C\methods\AL111212.M
Quant Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
QLast Update : Tue Dec 27 13:28:01 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	83	0.00
2		Propene	1.319	1.335	-1.2	76	-0.02
3		isobutane	1.400	2.054	-46.7#	105	-0.01
4		1,3-Butadiene	0.900	1.003	-11.4	81	-0.02
5		Methanol	0.596	0.761	-27.7	104	-0.02
6		Acetaldehyde	0.642	0.740	-15.3	82	-0.03
7		Ethanol	0.728	0.755	-3.7	79	-0.01
8		Vinyl Bromide	1.593	1.641	-3.0	64	-0.01
9		Isopropanol	2.703	2.761	-2.1	75	0.00
10		Acrolein	0.694	0.677	2.4	74	-0.02
11		t-Butanol	2.503	2.428	3.0	69	-0.03
12		Allyl Chloride	1.503	1.488	1.0	74	0.00
13		Acrylonitrile	1.195	1.277	-6.9	76	-0.01
14		t-Butyl methyl ether	3.999	3.449	13.8	62	-0.01
15		n-Hexane	3.159	3.305	-4.6	76	0.00
16		Isopropyl ether	4.834	5.100	-5.5	74	0.00
17		t-Butyl ethyl ether	1.498	1.001	33.2#	55	0.00
18		Ethyl Acetate	0.448	0.337	24.8	59	0.00
19		2,2-Dichloropropane	1.000	0.532	46.8#	47#	0.00
20		Tetrahydrofuran	1.024	1.003	2.1	73	0.00
21		Cyclohexane	3.070	3.174	-3.4	73	0.00
22		2,2,4-Trimethylpentane	8.636	9.708	-12.4	77	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
24	S	1,2-Dichloroethane-d4	0.348	0.329	5.5	87	0.00
25		t-Amyl methyl ether	0.660	0.388	41.2#	54	0.00
26		Heptane	0.413	0.414	-0.2	80	0.00
27		1,4-Dioxane	0.367	0.329	10.4	73	0.00
28		2-chloroethylvinylether	0.001	0.000	100.0#	0#	-11.72#
29	S	Toluene-d8	0.794	0.778	2.0	87	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
31		Cyclohexanone	0.679	0.646	4.9	72	0.00
32	S	4-Bromofluorobenzene	0.339	0.336	0.9	85	0.00
33		Dicyclopentadiene	0.012	0.008	33.3#	46#	0.00
34		Naphthalene	2.051	1.289	37.2#	78	0.00
35		1,2,3-Trichlorobenzene	0.917	0.591	35.6#	80	0.00

AirTECHNOLOGY
Laboratories, Inc.

October 21, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Ken Hewlett
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – SSD System; E-742
Lab Number: C101107-01/03

Enclosed are results for sample(s) received 10/11/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AIR TECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

PAGE: 1 **OF** 1

TURNAROUND TIME				DELIVERABLES		Condition upon receipt:			
Standard	■	48 hours	☐	EDD	■	Sealed	Yes ☐	No ☐	
Same Day	☐	72 hours	☐	EDF	☐	Intact	Yes ☐	No ☐	
24 hours	☐	96 hours	☐	Level 3	☐	Chilled	_____ deg C		
Other:				Level 4	☐				

Project No.:	E742
Project Name:	Omega - SSD System
Report To:	Ken Hewlett
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	khewlett@demaximis.com

BILLING

P.O. No.:	
Bill to:	de maximis, inc.
	1322 Scott Street, Suite 104
	San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 (TAL 2.3)					
C101107-01	OC_SSD_GAC_INF_101111	10/11/2011	1035	Summa	Air	No/C	X					
-02	OC_SSD_GAC_MID_101111	10/11/2011	1040	Summa	Air	No/C	X					
-03	OC_SSD_GAC_EFF_101111	10/11/2011	1045	Summa	Air	No/C	X					

AUTHORIZATION TO PERFORM WORK	COMPANY	DATE/TIME
Carlton Hamm Jr	JHA	10/11/11 1415
SAMPLED BY	**COMPANY**	**DATE/TIME**
Carlton Hamm Jr	JHA	10/11/11 1415

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	10/11/11 1415	[signature]	10/11/11 1415
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - SSD System
Project No.: E-742
Date Received: 10/11/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101107-01			C101107-02			C101107-03		
Client Sample I.D.:	OC_SSD_GAC_INF_101111			OC_SSD_GAC_MID_101111			OC_SSD_GAC_EFF_101111		
Date Sampled:	10/11/11			10/11/11			10/11/11		
Date Analyzed:	10/19/11			10/19/11			10/19/11		
QC Batch No.:	111019MS2A1			111019MS2A1			111019MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	52			52			61		
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**
Dichlorodifluoromethane (12)	8.5 J	52	2.4	ND	52	2.5	29 J	61	2.9
Vinyl Chloride	ND	52	11	ND	52	12	ND	61	14
Trichlorofluoromethane (11)	640	52	21	940	52	21	1,300	61	25
1,1-Dichloroethene	3,800	52	5.6	9,000	52	5.6	9,600	61	6.6
Carbon Disulfide	ND	260	7.7	38 J	260	7.8	40 J	310	9.0
1,1,2-Cl 1,2,2-F ethane (113)	4,100	52	12	10,000	52	12	15,000	61	14
Methylene Chloride	ND	52	10	ND	52	10	ND	61	12
1,1-Dichloroethane	27 J	52	6.1	93	52	6.2	130	61	7.2
2-Butanone	ND	52	13	ND	52	13	ND	61	15
Chloroform	340	52	7.2	1,600	52	7.3	120	61	8.5
1,1,1-Trichloroethane	ND	52	5.9	ND	52	6.0	ND	61	6.9
Carbon Tetrachloride	ND	52	5.9	ND	52	6.0	ND	61	7.0
Benzene	12 J	52	10	ND	52	10	150	61	12
1,2-Dichloroethane	ND	52	14	ND	52	14	ND	61	16
Trichloroethene	920	52	8.0	1,000	52	8.1	ND	61	9.5
Toluene	22 J	52	6.6	27 J	52	6.7	820	61	7.8
1,1,2-Trichloroethane	ND	52	11	ND	52	11	ND	61	12
Tetrachloroethene	11,000	52	5.8	1,600	52	5.9	220	61	6.9
o-Xylene	20 J	52	7.1	20 J	52	7.2	200	61	8.4
Isopropanol	ND	260	35	ND	260	36	ND	310	42
n-Hexane	ND	260	13	ND	260	13	57 J	310	15
1,4-Dioxane	ND	260	34	ND	260	34	ND	310	40
Total VOC's	21,000			24,000			28,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	114%	70-130%	102%	70-130%	104%	70-130%
Toluene-d8	89%	70-130%	95%	70-130%	106%	70-130%
4-Bromofluorobenzene	105%	70-130%	110%	70-130%	123%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 10/21/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - SSD System
Project No.: E-742
Date Received: 10/11/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101107-01			C101107-02			C101107-03					
Client Sample I.D.:	OC_SSD_GAC_INF_1011 11			OC_SSD_GAC_MID_1011 11			OC_SSD_GAC_EFF_1011 11					
Date Sampled:	10/11/11			10/11/11			10/11/11					
Date Analyzed:	10/19/11			10/19/11			10/19/11					
QC Batch No.:	111019MS2A1			111019MS2A1			111019MS2A1					
Analyst Initials:	DT			DT			DT					
Dilution Factor:	52			52			61					
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3			
Dichlorodifluoromethane (12)	42 J	260	12	ND	260	12	140 J	300	14			
Vinyl Chloride	ND	130	29	ND	130	30	ND	160	35			
Trichlorofluoromethane (11)	3,600	290	120	5,300	290	120	7,500	340	140			
1,1-Dichloroethene	15,000	200	22	36,000	210	22	38,000	240	26			
Carbon Disulfide	ND	800	24	120 J	810	24	120 J	950	28			
1,1,2-Cl 1,2,2-F ethane (113)	31,000	400	91	80,000	400	92	110,000	470	110			
Methylene Chloride	ND	180	35	ND	180	36	ND	210	41			
1,1-Dichloroethane	110 J	210	25	370	210	25	510	250	29			
2-Butanone	ND	150	39	ND	150	39	ND	180	46			
Chloroform	1,700	250	35	8,100	260	35	570	300	41			
1,1,1-Trichloroethane	ND	280	32	ND	290	32	ND	330	38			
Carbon Tetrachloride	ND	320	37	ND	330	38	ND	380	44			
Benzene	39 J	160	32	ND	170	33	480	190	38			
1,2-Dichloroethane	ND	210	55	ND	210	56	ND	250	65			
Trichloroethene	4,900	280	43	5,400	280	44	ND	330	51			
Toluene	83 J	190	25	100 J	200	25	3,100	230	29			
1,1,2-Trichloroethane	ND	280	58	ND	290	58	ND	330	68			
Tetrachloroethene	75,000	350	39	11,000	350	40	1,500	410	47			
o-Xylene	85 J	220	31	87 J	230	31	870	260	37			
Isopropanol	ND	630	86	ND	640	88	ND	750	100			
n-Hexane	ND	910	46	ND	920	46	200 J	1,100	54			
1,4-Dioxane	ND	930	120	ND	940	120	ND	1,100	140			
Total VOC's	130,000			150,000			160,000					

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria		
1,2-Dichloroethane-d4	114%	70-130%	102%	70-130%	104%	70-130%		
Toluene-d8	89%	70-130%	95%	70-130%	106%	70-130%		
4-Bromofluorobenzene	105%	70-130%	110%	70-130%	123%	70-130%		

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 10/21/11

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111019MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	10/19/11		10/19/11		10/19/11						
Data File ID:	19OCT006.D		19OCT018.D		19OCT019.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.4	84	8.5	85	0.8	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.5	85	9.2	92	8.1	70	130	30	Pass
Trichloroethene	0.0	10.0	8.1	81	7.9	79	1.8	70	130	30	Pass
Toluene	0.0	10.0	8.0	80	8.1	81	1.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.2	92	9.5	95	4.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 10/21/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111017\19OCT002.D
Tune Time : 19 Oct 2011 3:46

Daily Calibration File : D:\GCMSB\111017\19OCT003.D

File	Sample	Surrogate Recovery %			Daily cali. I.S. response 41866	185563	118391
					Internal Standard Responses		
19OCT006	METHOD BLANK	120	84	72	46550	156316	103100
19OCT007	C101107-01 d	114	89	105	43108	154976	117071
19OCT010	C101107-03 d	104	106	123	34834	146424	108598
19OCT014	C101107-02 d	102	95	110	38143	159341	130625
19OCT015	C101108-01 d	98	102	98	39219	165334	126668
19OCT018	TO15 LCS	107	87	119	39938	161597	105613
19OCT019	TO15 LCSD	106	85	107	49047	197451	127359

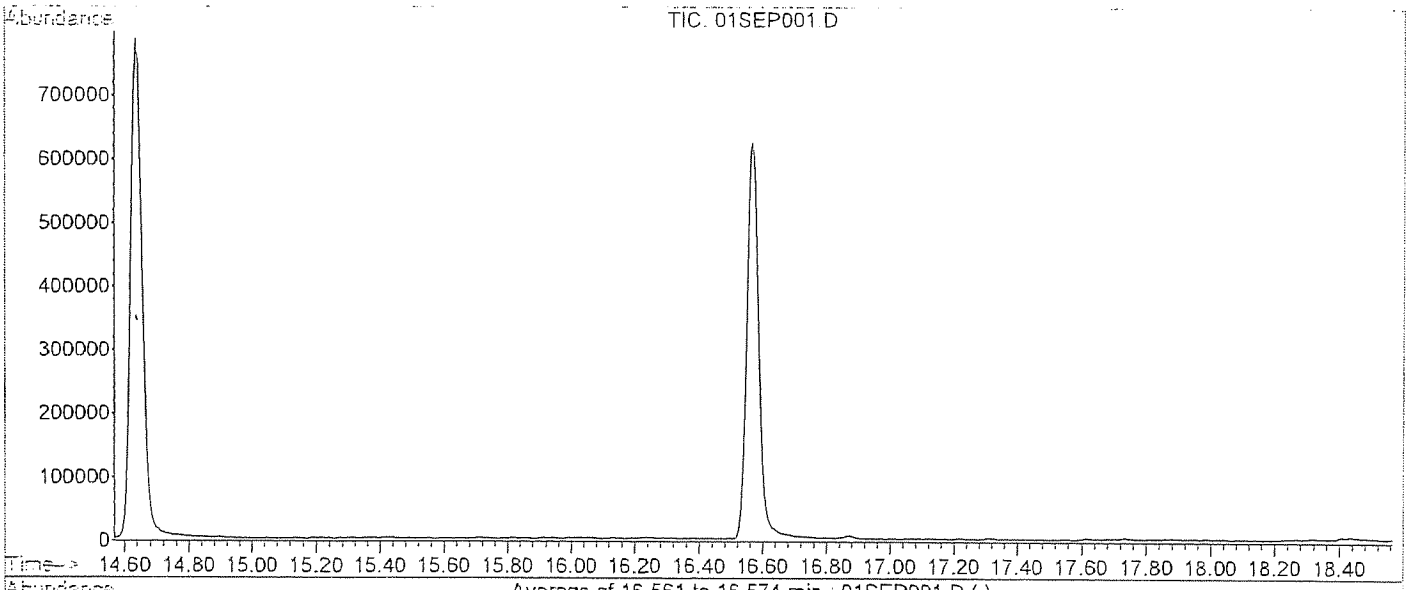
surrogate recovery limits 70-130%
Internal standard response limits ~~60-140%~~ 50-150% v 11/11

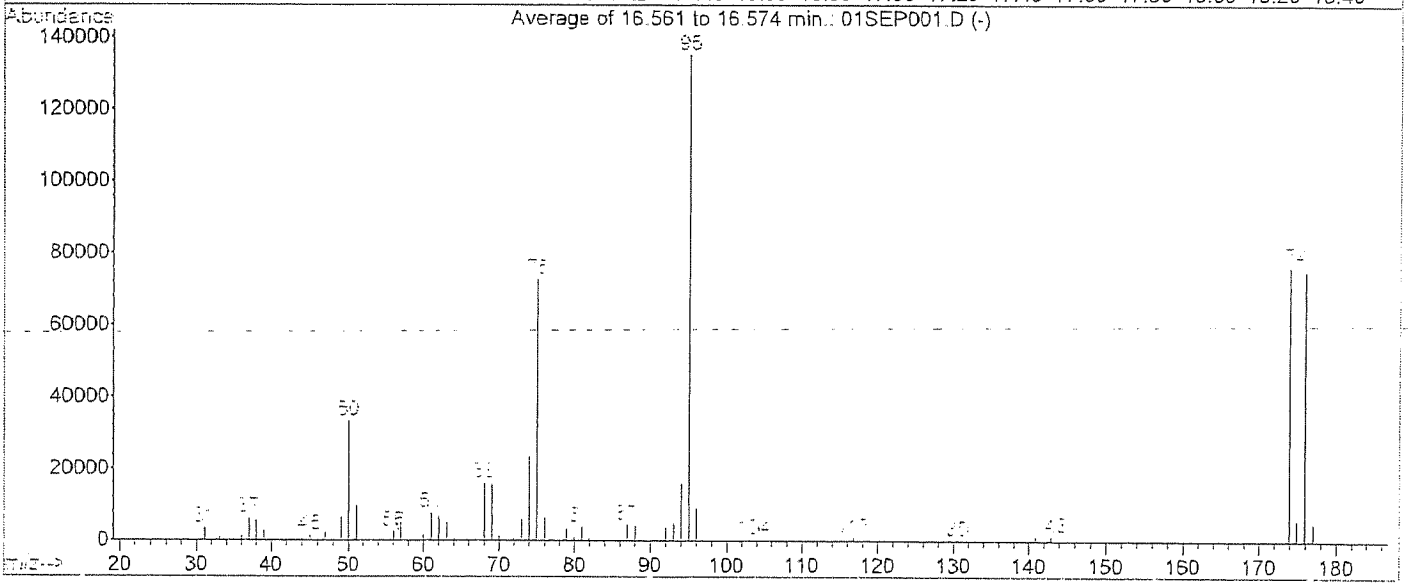
t - fails 24hr time check * - fails criteria
Created:Fri Oct 21 11:14:06 2011

BFB

Data File : D:\GCMSB\110829\01SEP001.D
Acq On : 31 Aug 2011 23:06
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 4
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	33312	PASS
75	95	30	60	53.8	72664	PASS
95	95	100	100	100.0	135107	PASS
96	95	5	9	6.6	8964	PASS
173	174	0.00	2	0.4	311	PASS
174	95	50	100	56.6	76413	PASS
175	174	5	9	7.6	5792	PASS
176	174	95	101	98.3	75117	PASS
177	176	5	9	6.6	4934	PASS

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	7.505	7.130	6.709	6.545	6.058	4.048	6.332	19.33
3)		Chloromethane	2.738	2.615	2.562	2.516	2.468	1.745	2.441	14.47
4)		1,2-Cl-1,1,2,2-F et	6.700	6.378	6.054	5.933	5.629	3.916	5.768	16.98
5)		Vinyl Chloride	2.578	2.501	2.453	2.441	2.466	1.735	2.362	13.18
6)		Bromomethane	1.355	1.051	1.046	0.976	1.019	0.731	1.030	19.35
7)		Chloroethane	1.378	1.158	1.044	0.984	0.963	0.681	1.034	22.31
8)		Trichlorofluorometh	6.825	6.479	6.183	6.020	5.709	4.129	5.891	16.03
9)	M	1,1-Dichloroethene	3.788	4.037	4.089	4.175	4.124	2.945	3.860	12.12
10)		Carbon Disulfide	4.959	5.118	5.188	5.365	5.407	3.828	4.977	11.78
11)		1,1,2-Cl 1,2,2-F et	3.079	2.999	2.859	2.848	2.704	1.929	2.736	15.21
12)		Acetone		4.660	4.549	4.428	4.098	2.900	4.127	17.39
13)	M	Methylene Chloride	1.771	1.775	1.697	1.743	1.736	1.244	1.661	12.42
14)		t-1,2-Dichloroethen	1.665	1.812	1.807	1.887	1.893	1.392	1.743	10.93
15)		1,1-Dichloroethane	4.429	4.529	4.462	4.518	4.412	3.133	4.247	12.90
16)		Vinyl Acetate	6.157	7.514	8.204	8.415	8.246	5.492	7.338	16.76
17)		c-1,2-Dichloroethen	1.804	1.952	1.996	1.996	1.986	1.435	1.862	11.89
18)		2-Butanone	0.454	0.934	0.988	1.029	1.042	0.739	0.864	26.54
19)		t-Butyl Methyl Ethe	4.634	5.070	5.492	5.809	5.919	4.067	5.165	13.92
20)	t	Chloroform	4.957	4.914	4.781	4.768	4.634	3.319	4.562	13.58
21)		1,1,1-Trichloroetha	4.584	4.643	4.503	4.638	4.635	3.368	4.395	11.52
22)		1,1-Dichloropropene	2.979	3.397	3.494	3.584	3.566	2.571	3.265	12.45
23)	t	Carbon Tetrachlorid	3.485	4.021	3.962	4.252	4.278	3.138	3.856	11.75
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.510	1.415	1.432	1.350	1.455	1.334	1.416	4.65
26)	S	1,2-Dichloroethane-	0.386	0.363	0.378	0.380	0.399	0.645	0.425	25.49
27)		1,2-Dichloroethane	0.925	0.880	0.892	0.841	0.887	0.829	0.876	4.03
28)	M	Trichloroethene	0.477	0.474	0.489	0.480	0.528	0.496	0.491	4.07
29)		1,2-Dichloropropane	0.611	0.573	0.595	0.586	0.652	0.609	0.604	4.55
30)		Bromodichloromethan	0.911	1.016	1.049	1.056	1.169	1.057	1.043	7.95
31)		Dibromomethane	0.476	0.526	0.553	0.538	0.584	0.549	0.538	6.70
32)		c-1,3-Dichloroprope	0.465	0.628	0.699	0.740	0.901	0.872	0.717	22.48
33)		4-Methyl-2-Pentanon	0.932	1.031	1.204	1.199	1.337	1.202	1.151	12.58
34)	S	Toluene-d8	0.703	0.699	0.744	0.717	0.747	0.756	0.728	3.36
35)	M	Toluene	1.485	1.521	1.603	1.563	1.712	1.565	1.575	4.97
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.472	0.726	0.846	0.962	1.176	1.116	0.883	29.57
38)		1,1,2-Trichloroetha	0.780	0.827	0.803	0.802	0.848	0.766	0.804	3.71
39)		1,3-Dichloropropane	1.119	1.216	1.309	1.327	1.405	1.254	1.272	7.79
40)		Tetrachloroethene	0.954	0.905	0.887	0.898	0.917	0.815	0.896	5.11
41)		2-Hexanone		0.684	0.852	0.966	1.082	0.981	0.913	16.64
42)		Dibromochloromethan	0.945	1.103	1.131	1.211	1.360	1.219	1.161	11.97
43)	t	1,2-Dibromoethane	1.002	1.187	1.192	1.226	1.324	1.187	1.186	8.83
44)		Chlorobenzene	1.611	1.653	1.628	1.653	1.777	1.575	1.649	4.19
45)		1,1,1,2-Tetrachloro	0.652	0.738	0.797	0.824	0.903	0.814	0.788	10.81
46)	T	Ethylbenzene	2.518	3.047	3.153	3.185	3.351	2.786	3.007	10.10
47)	T	p,&m-Xylene	2.057	2.505	2.423	2.454	2.462	1.898	2.300	11.13
48)	T	o-Xylene	1.838	2.397	2.449	2.541	2.708	2.386	2.386	12.32
49)		Styrene	0.964	1.506	1.520	1.609	1.828	1.677	1.517	19.49
50)		Bromoform	0.639	0.838	0.852	0.967	1.151	1.050	0.916	19.68

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	2.060	2.746	3.181	3.210	3.328	2.883	2.901	16.08
52)	M	1,1,2,2-Tetrachloro	1.903	1.936	1.708	1.707	1.878	1.743	1.813	5.76
53)	S	4-Bromofluorobenzen	0.397	0.420	0.424	0.429	0.428	0.441	0.423	3.44
54)		Benzyl Chloride	0.703	0.875	0.991	1.431	2.180	2.137	1.386	46.52
55)		1,2,3-Trichloroprop	0.451	0.499	0.572	0.577	0.611	0.572	0.547	10.88
56)		n-Propyl Benzene	2.373	2.932	3.658	3.803	4.006	3.344	3.353	18.19
57)		Bromobenzene	1.375	1.559	1.904	1.896	2.085	1.864	1.781	14.69
58)		4-Ethyl Toluene	2.293	3.022	3.048	3.232	3.211	2.797	2.934	11.96
59)	T	1,3,5-Trimethylbenz	2.265	2.910	2.503	2.549	2.832	2.463	2.587	9.34
60)		2-Chlorotoluene	2.375	2.501	2.832	2.930	2.830	2.473	2.657	8.80
61)		4-Chlorotoluene	1.704	1.833	2.399	2.459	2.653	2.357	2.234	16.87
62)		tert-Butylbenzene	1.508	1.917	2.293	2.398	2.540	2.306	2.160	17.63
63)		1,2,4-Trimethylbenz	1.872	2.597	2.468	2.525	2.705	2.392	2.426	12.04
64)		sec-Butylbenzene	2.020	2.649	3.213	3.315	3.443	2.932	2.929	18.06
65)		p-Isopropyltoluene	1.100	1.633	2.170	2.310	2.406	2.133	1.959	25.44
66)		1,3-Dichlorobenzene	1.269	1.420	1.298	1.339	1.493	1.354	1.362	6.05
67)		1,4-Dichlorobenzene	1.282	1.323	1.250	1.318	1.479	1.342	1.332	5.92
68)		n-Butylbenzene	1.108	1.505	2.129	2.225	2.431	2.129	1.921	26.26
69)		1,2-Dichlorobenzene	1.300	1.355	1.207	1.229	1.398	1.271	1.294	5.67
70)		1,2-Dibromo-3-chlor	0.169	0.172	0.267	0.338	0.420	0.412	0.296	37.89
71)		1,2,4-Trichlorobenz	0.391	0.539	0.592	0.681	0.855	0.786	0.641	26.50
72)		Hexachlorobutadiene	0.746	0.783	0.621	0.717	0.796	0.708	0.729	8.66

= Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD	
1)	I	Bromochloromethane	----------ISTD----------								
2)		Propene	2.277	1.830	1.774	1.823	1.828	1.234	1.794	18.50	
3)		isobutane		0.087	0.110	0.127	0.121	0.080	0.105	19.74	
4)		1,3-Butadiene	1.817	1.709	1.696	1.828	1.922	1.381	1.725	10.92	
5)		Methanol	1.050	0.294	0.153	0.092	0.082	0.062	0.289	~~132.38~~	NA
6)		Acetaldehyde		0.935	0.827	0.785	0.778	0.528	0.771	19.41	
7)		Ethanol		0.477	0.736	0.674	0.739	0.487	0.623	21.06	
8)		Vinyl Bromide	0.800	0.930	0.948	0.977	1.030	0.782	0.911	10.90	
9)		Isopropanol	2.301	3.186	3.723	3.850	4.077	2.848	3.331	20.34	
10)		Acrolein	0.452	0.646	0.721	0.785	0.823	0.594	0.670	20.37	
11)		t-Butanol	2.359	3.023	3.319	3.654	3.936	2.306	3.100	21.59	
12)		Allyl Chloride	2.042	2.355	2.435	2.561	2.732	1.959	2.347	12.71	
13)		Acrylonitrile	0.714	1.663	1.677	1.983	1.913	1.380	1.555	29.83	
14)		t-Butyl methyl ethe	4.635	5.110	5.491	5.810	5.948	4.084	5.180	13.89	
15)		n-Hexane	3.251	3.746	3.972	4.072	4.035	2.856	3.655	13.57	
16)		Isopropyl ether	6.232	7.172	7.790	8.063	7.771	5.184	7.035	15.90	
17)		t-Butyl ethyl ether	1.648	2.050	2.255	2.447	2.505	1.824	2.122	16.17	
18)		Ethyl Acetate		0.467	0.544	0.560	0.591	0.432	0.519	12.87	
19)		2,2-Dichloropropane	2.754	3.053	3.259	3.482	3.301	2.238	3.014	15.07	
20)		Tetrahydrofuran	0.710	0.851	0.934	1.006	1.015	0.732	0.875	15.22	
21)		Cyclohexane	3.246	3.844	4.014	4.123	4.160	2.938	3.721	13.67	
22)		2,2,4-Trimethylpent	1.120	1.296	1.336	1.341	1.280	0.858	1.205	E1 15.63	
23)	I	1,4-Difluorobenzene	----------ISTD----------								
24)	S	1,2-Dichloroethane-	0.374	0.364	0.373	0.362	0.373	0.382	0.371	1.98	
25)		t-Amyl methyl ether	0.956	1.076	1.155	1.231	1.424	1.336	1.196	14.31	
26)		Heptane	0.438	0.484	0.495	0.489	0.548	0.522	0.496	7.51	
27)		1,4-Dioxane	0.186	0.266	0.313	0.321	0.359		0.289	22.97	
~~28)~~		~~2-chloroethylvinyle~~		~~0.002~~	~~0.007~~	~~0.010~~	~~0.014~~	~~0.015~~	~~0.010~~	~~56.21~~	NA
29)	S	Toluene-d8	0.696	0.699	0.735	0.714	0.744	0.756	0.724	3.40	
30)		Chlorobenzene-d5	----------ISTD----------								
31)		Cyclohexanone		0.601	0.880	0.982	1.055	1.018	0.907	20.17	
32)	S	4-Bromofluorobenzen	0.673	0.729	0.736	0.754	0.781	0.914	0.765	10.65	
33)		Dicyclopentadiene		0.013	0.026	0.032	0.035	0.035	0.028	~~32.25~~	NA
34)		Naphthalene		1.158	1.314	1.599	2.045	1.852	1.594	23.04	
35)		1,2,3-Trichlorobenz				0.000	0.004	0.004	0.003	~~71.56~~	NA

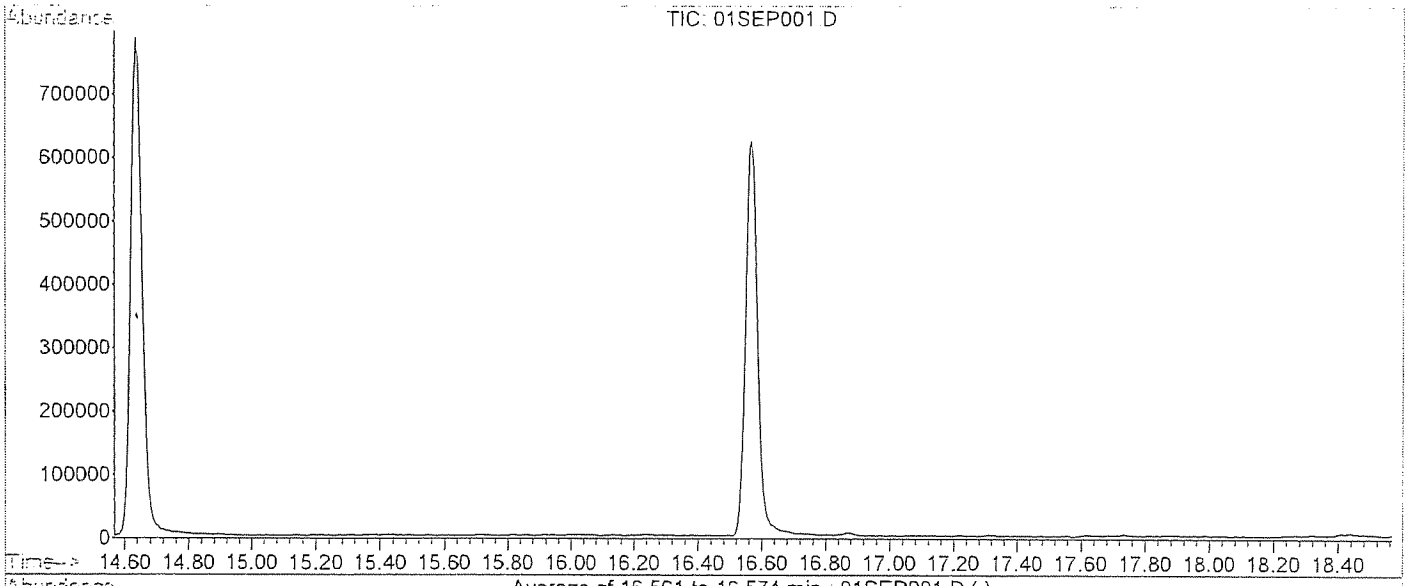
DT 9/2/11

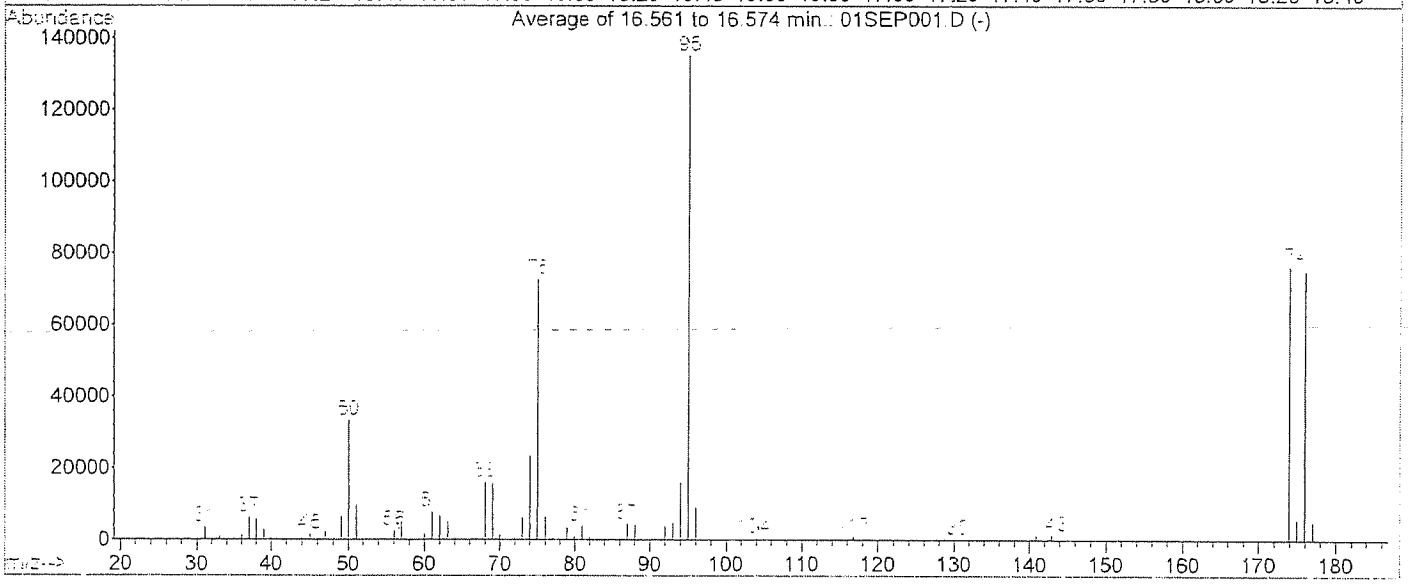
(#) = Out of Range

BFB

Data File : D:\GCMSB\110829\01SEP001.D
Acq On : 31 Aug 2011 23:06
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 4
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	33312	PASS
75	95	30	60	53.8	72664	PASS
95	95	100	100	100.0	135107	PASS
96	95	5	9	6.6	8964	PASS
173	174	0.00	2	0.4	311	PASS
174	95	50	100	56.6	76413	PASS
175	174	5	9	7.6	5792	PASS
176	174	95	101	98.3	75117	PASS
177	176	5	9	6.6	4934	PASS

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	7.505	7.130	6.709	6.545	6.058	4.048	6.332	19.33
3)		Chloromethane	2.738	2.615	2.562	2.516	2.468	1.745	2.441	14.47
4)		1,2-Cl-1,1,2,2-F et	6.700	6.378	6.054	5.933	5.629	3.916	5.768	16.98
5)		Vinyl Chloride	2.578	2.501	2.453	2.441	2.466	1.735	2.362	13.18
6)		Bromomethane	1.355	1.051	1.046	0.976	1.019	0.731	1.030	19.35
7)		Chloroethane	1.378	1.158	1.044	0.984	0.963	0.681	1.034	22.31
8)		Trichlorofluorometh	6.825	6.479	6.183	6.020	5.709	4.129	5.891	16.03
9)	M	1,1-Dichloroethene	3.788	4.037	4.089	4.175	4.124	2.945	3.860	12.12
10)		Carbon Disulfide	4.959	5.118	5.188	5.365	5.407	3.828	4.977	11.78
11)		1,1,2-Cl 1,2,2-F et	3.079	2.999	2.859	2.848	2.704	1.929	2.736	15.21
12)		Acetone		4.660	4.549	4.428	4.098	2.900	4.127	17.39
13)	M	Methylene Chloride	1.771	1.775	1.697	1.743	1.736	1.244	1.661	12.42
14)		t-1,2-Dichloroethen	1.665	1.812	1.807	1.887	1.893	1.392	1.743	10.93
15)		1,1-Dichloroethane	4.429	4.529	4.462	4.518	4.412	3.133	4.247	12.90
16)		Vinyl Acetate	6.157	7.514	8.204	8.415	8.246	5.492	7.338	16.76
17)		c-1,2-Dichloroethen	1.804	1.952	1.996	1.996	1.986	1.435	1.862	11.89
18)		2-Butanone	0.454	0.934	0.988	1.029	1.042	0.739	0.864	26.54
19)		t-Butyl Methyl Ethe	4.634	5.070	5.492	5.809	5.919	4.067	5.165	13.92
20)	t	Chloroform	4.957	4.914	4.781	4.768	4.634	3.319	4.562	13.58
21)		1,1,1-Trichloroetha	4.584	4.643	4.503	4.638	4.635	3.368	4.395	11.52
22)		1,1-Dichloropropene	2.979	3.397	3.494	3.584	3.566	2.571	3.265	12.45
23)	t	Carbon Tetrachlorid	3.485	4.021	3.962	4.252	4.278	3.138	3.856	11.75
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.510	1.415	1.432	1.350	1.455	1.334	1.416	4.65
26)	S	1,2-Dichloroethane-	0.386	0.363	0.378	0.380	0.399	0.645	0.425	25.49
27)		1,2-Dichloroethane	0.925	0.880	0.892	0.841	0.887	0.829	0.876	4.03
28)	M	Trichloroethene	0.477	0.474	0.489	0.480	0.528	0.496	0.491	4.07
29)		1,2-Dichloropropane	0.611	0.573	0.595	0.586	0.652	0.609	0.604	4.55
30)		Bromodichloromethan	0.911	1.016	1.049	1.056	1.169	1.057	1.043	7.95
31)		Dibromomethane	0.476	0.526	0.553	0.538	0.584	0.549	0.538	6.70
32)		c-1,3-Dichloroprope	0.465	0.628	0.699	0.740	0.901	0.872	0.717	22.48
33)		4-Methyl-2-Pentanon	0.932	1.031	1.204	1.199	1.337	1.202	1.151	12.58
34)	S	Toluene-d8	0.703	0.699	0.744	0.717	0.747	0.756	0.728	3.36
35)	M	Toluene	1.485	1.521	1.603	1.563	1.712	1.565	1.575	4.97
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.472	0.726	0.846	0.962	1.176	1.116	0.883	29.57
38)		1,1,2-Trichloroetha	0.780	0.827	0.803	0.802	0.848	0.766	0.804	3.71
39)		1,3-Dichloropropane	1.119	1.216	1.309	1.327	1.405	1.254	1.272	7.79
40)		Tetrachloroethene	0.954	0.905	0.887	0.898	0.917	0.815	0.896	5.11
41)		2-Hexanone		0.684	0.852	0.966	1.082	0.981	0.913	16.64
42)		Dibromochloromethan	0.945	1.103	1.131	1.211	1.360	1.219	1.161	11.97
43)	t	1,2-Dibromoethane	1.002	1.187	1.192	1.226	1.324	1.187	1.186	8.83
44)		Chlorobenzene	1.611	1.653	1.628	1.653	1.777	1.575	1.649	4.19
45)		1,1,1,2-Tetrachloro	0.652	0.738	0.797	0.824	0.903	0.814	0.788	10.81
46)	T	Ethylbenzene	2.518	3.047	3.153	3.185	3.351	2.786	3.007	10.10
47)	T	p,&m-Xylene	2.057	2.505	2.423	2.454	2.462	1.898	2.300	11.13
48)	T	o-Xylene	1.838	2.397	2.449	2.541	2.708	2.386	2.386	12.32
49)		Styrene	0.964	1.506	1.520	1.609	1.828	1.677	1.517	19.49
50)		Bromoform	0.639	0.838	0.852	0.967	1.151	1.050	0.916	19.68

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	2.060	2.746	3.181	3.210	3.328	2.883	2.901	16.08
52)	M	1,1,2,2-Tetrachloro	1.903	1.936	1.708	1.707	1.878	1.743	1.813	5.76
53)	S	4-Bromofluorobenzen	0.397	0.420	0.424	0.429	0.428	0.441	0.423	3.44
54)		Benzyl Chloride	0.703	0.875	0.991	1.431	2.180	2.137	1.386	46.52
55)		1,2,3-Trichloroprop	0.451	0.499	0.572	0.577	0.611	0.572	0.547	10.88
56)		n-Propyl Benzene	2.373	2.932	3.658	3.803	4.006	3.344	3.353	18.19
57)		Bromobenzene	1.375	1.559	1.904	1.896	2.085	1.864	1.781	14.69
58)		4-Ethyl Toluene	2.293	3.022	3.048	3.232	3.211	2.797	2.934	11.96
59)	T	1,3,5-Trimethylbenz	2.265	2.910	2.503	2.549	2.832	2.463	2.587	9.34
60)		2-Chlorotoluene	2.375	2.501	2.832	2.930	2.830	2.473	2.657	8.80
61)		4-Chlorotoluene	1.704	1.833	2.399	2.459	2.653	2.357	2.234	16.87
62)		tert-Butylbenzene	1.508	1.917	2.293	2.398	2.540	2.306	2.160	17.63
63)		1,2,4-Trimethylbenz	1.872	2.597	2.468	2.525	2.705	2.392	2.426	12.04
64)		sec-Butylbenzene	2.020	2.649	3.213	3.315	3.443	2.932	2.929	18.06
65)		p-Isopropyltoluene	1.100	1.633	2.170	2.310	2.406	2.133	1.959	25.44
66)		1,3-Dichlorobenzene	1.269	1.420	1.298	1.339	1.493	1.354	1.362	6.05
67)		1,4-Dichlorobenzene	1.282	1.323	1.250	1.318	1.479	1.342	1.332	5.92
68)		n-Butylbenzene	1.108	1.505	2.129	2.225	2.431	2.129	1.921	26.26
69)		1,2-Dichlorobenzene	1.300	1.355	1.207	1.229	1.398	1.271	1.294	5.67
70)		1,2-Dibromo-3-chlor	0.169	0.172	0.267	0.338	0.420	0.412	0.296	37.89
71)		1,2,4-Trichlorobenz	0.391	0.539	0.592	0.681	0.855	0.786	0.641	26.50
72)		Hexachlorobutadiene	0.746	0.783	0.621	0.717	0.796	0.708	0.729	8.66

= Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

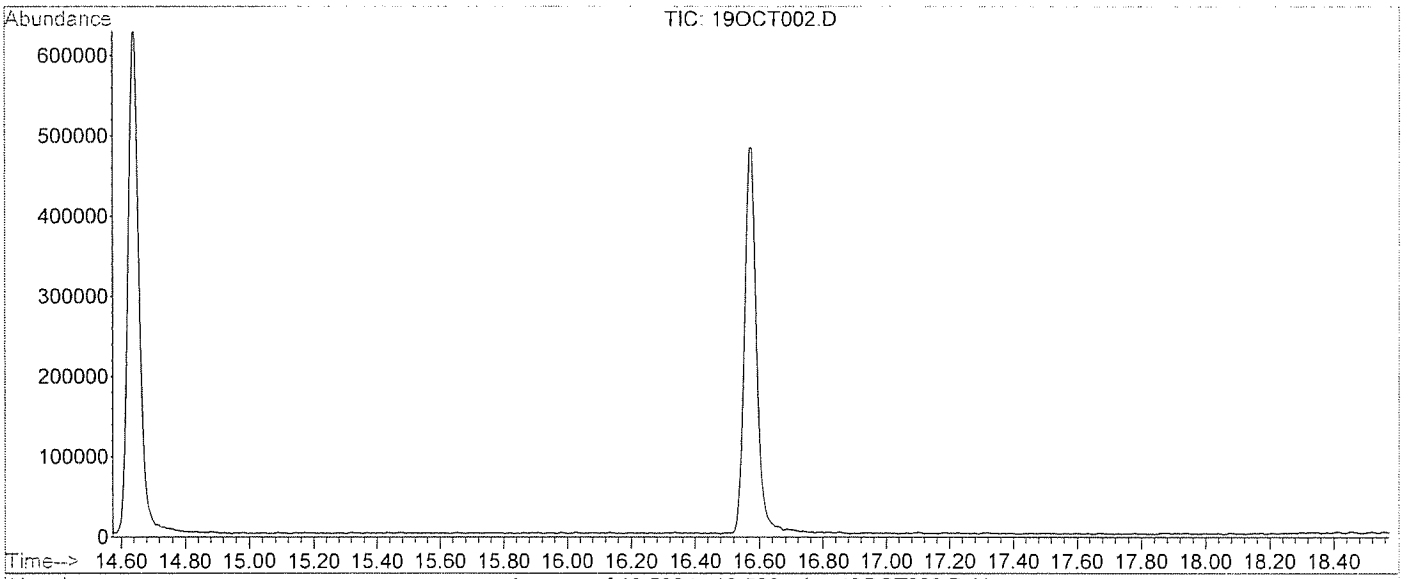
		Compound	1	5	10	25	100	250	Avg	%RSD	
1)	I	Bromochloromethane	----------ISTD----------								
2)		Propene	2.277	1.830	1.774	1.823	1.828	1.234	1.794	18.50	
3)		isobutane		0.087	0.110	0.127	0.121	0.080	0.105	19.74	
4)		1,3-Butadiene	1.817	1.709	1.696	1.828	1.922	1.381	1.725	10.92	
5)		Methanol	1.050	0.294	0.153	0.092	0.082	0.062	0.289	~~132.38~~	NA
6)		Acetaldehyde		0.935	0.827	0.785	0.778	0.528	0.771	19.41	
7)		Ethanol		0.477	0.736	0.674	0.739	0.487	0.623	21.06	
8)		Vinyl Bromide	0.800	0.930	0.948	0.977	1.030	0.782	0.911	10.90	
9)		Isopropanol	2.301	3.186	3.723	3.850	4.077	2.848	3.331	20.34	
10)		Acrolein	0.452	0.646	0.721	0.785	0.823	0.594	0.670	20.37	
11)		t-Butanol	2.359	3.023	3.319	3.654	3.936	2.306	3.100	21.59	
12)		Allyl Chloride	2.042	2.355	2.435	2.561	2.732	1.959	2.347	12.71	
13)		Acrylonitrile	0.714	1.663	1.677	1.983	1.913	1.380	1.555	29.83	
14)		t-Butyl methyl ethe	4.635	5.110	5.491	5.810	5.948	4.084	5.180	13.89	
15)		n-Hexane	3.251	3.746	3.972	4.072	4.035	2.856	3.655	13.57	
16)		Isopropyl ether	6.232	7.172	7.790	8.063	7.771	5.184	7.035	15.90	
17)		t-Butyl ethyl ether	1.648	2.050	2.255	2.447	2.505	1.824	2.122	16.17	
18)		Ethyl Acetate		0.467	0.544	0.560	0.591	0.432	0.519	12.87	
19)		2,2-Dichloropropane	2.754	3.053	3.259	3.482	3.301	2.238	3.014	15.07	
20)		Tetrahydrofuran	0.710	0.851	0.934	1.006	1.015	0.732	0.875	15.22	
21)		Cyclohexane	3.246	3.844	4.014	4.123	4.160	2.938	3.721	13.67	
22)		2,2,4-Trimethylpent	1.120	1.296	1.336	1.341	1.280	0.858	1.205	E1 15.63	
23)	I	1,4-Difluorobenzene	----------ISTD----------								
24)	S	1,2-Dichloroethane-	0.374	0.364	0.373	0.362	0.373	0.382	0.371	1.98	
25)		t-Amyl methyl ether	0.956	1.076	1.155	1.231	1.424	1.336	1.196	14.31	
26)		Heptane	0.438	0.484	0.495	0.489	0.548	0.522	0.496	7.51	
27)		1,4-Dioxane	0.186	0.266	0.313	0.321	0.359		0.289	22.97	
28)		2-chloroethylvinyle		0.002	0.007	0.010	0.014	0.015	0.010	~~56.21~~	NA
29)	S	Toluene-d8	0.696	0.699	0.735	0.714	0.744	0.756	0.724	3.40	
30)		Chlorobenzene-d5	----------ISTD----------								
31)		Cyclohexanone		0.601	0.880	0.982	1.055	1.018	0.907	20.17	
32)	S	4-Bromofluorobenzen	0.673	0.729	0.736	0.754	0.781	0.914	0.765	10.65	
33)		Dicyclopentadiene		0.013	0.026	0.032	0.035	0.035	0.028	~~32.25~~	NA
34)		Naphthalene		1.158	1.314	1.599	2.045	1.852	1.594	23.04	
35)		1,2,3-Trichlorobenz				0.000	0.004	0.004	0.003	~~71.56~~	NA

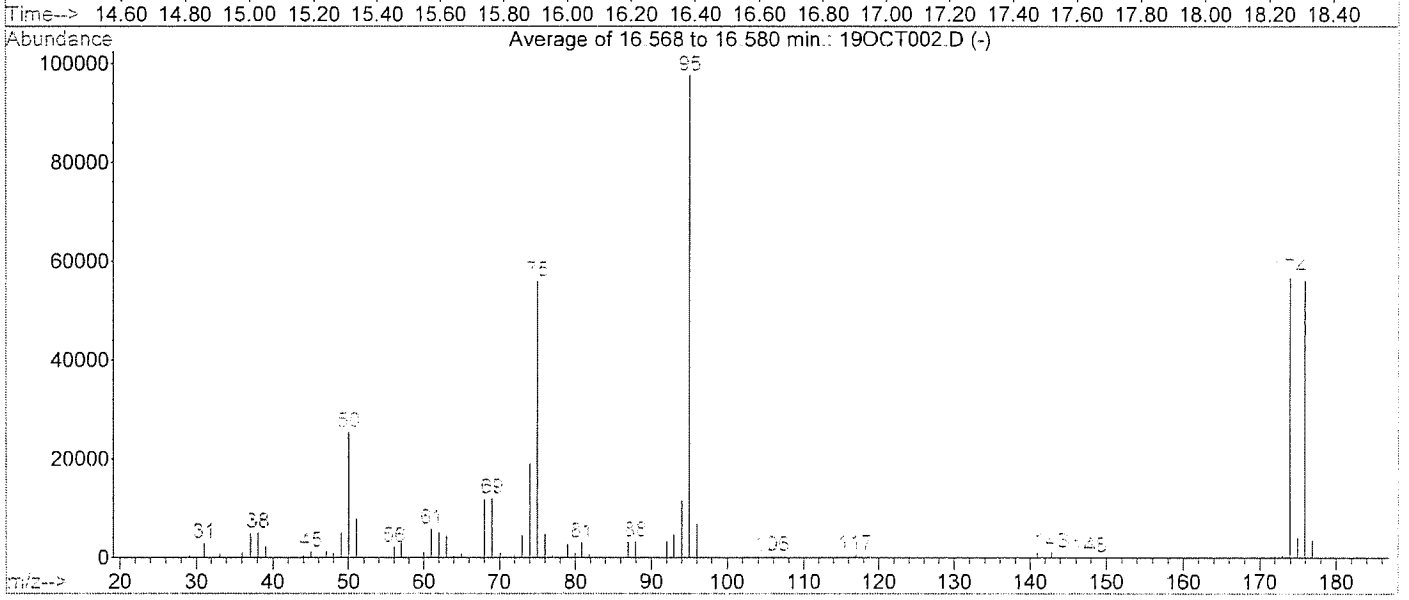
DT 9/2/11

#) = Out of Range

Data File : D:\GCMSB\111017\19OCT002.D
Acq On : 19 Oct 2011 3:46
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	25349	PASS
75	95	30	60	57.3	55904	PASS
95	95	100	100	100.0	97579	PASS
96	95	5	9	7.0	6815	PASS
173	174	0.00	2	0.8	453	PASS
174	95	50	100	58.0	56576	PASS
175	174	5	9	7.1	4018	PASS
176	174	95	101	99.0	56037	PASS
177	176	5	9	6.3	3542	PASS

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT003.D Vial: 16
Acq On : 19 Oct 2011 4:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	79	0.00
2		Dichlorodifluoromethane (12	6.332	7.581	-19.7	90	0.00
3		Chloromethane	2.441	2.779	-13.8	86	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	5.768	6.804	-18.0	89	0.00
5		Vinyl Chloride	2.362	2.665	-12.8	86	0.00
6		Bromomethane	1.030	1.192	-15.7	90	0.00
7		Chloroethane	1.034	1.187	-14.8	90	0.00
8		Trichlorofluoromethane (11)	5.891	6.939	-17.8	89	0.00
9	M	1,1-Dichloroethene	3.860	3.818	1.1	74	0.00
10		Carbon Disulfide	4.977	4.985	-0.2	76	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	2.736	2.893	-5.7	80	0.00
12		Acetone	4.127	4.343	-5.2	76	0.00
13	M	Methylene Chloride	1.661	1.605	3.4	75	0.00
14		t-1,2-Dichloroethene	1.743	1.741	0.1	77	0.00
15		1,1-Dichloroethane	4.247	4.321	-1.7	77	0.00
16		Vinyl Acetate	7.338	7.160	2.4	69	0.00
17		c-1,2-Dichloroethene	1.862	1.815	2.5	72	0.00
18		2-Butanone	0.864	0.883	-2.2	71	0.00
19		t-Butyl Methyl Ether	5.165	5.199	-0.7	75	0.00
20	t	Chloroform	4.562	4.744	-4.0	79	0.00
21		1,1,1-Trichloroethane	4.395	4.751	-8.1	84	0.00
22		1,1-Dichloropropene	3.265	3.356	-2.8	76	0.00
23	t	Carbon Tetrachloride	3.856	4.090	-6.1	82	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
25	T	Benzene	1.416	1.325	6.4	73	0.00
26	S	1,2-Dichloroethane-d4	0.425	0.410	3.5	86	0.00
27		1,2-Dichloroethane	0.876	0.913	-4.2	81	0.00
28	M	Trichloroethene	0.491	0.454	7.5	74	0.00
29		1,2-Dichloropropane	0.604	0.536	11.3	71	0.00
30		Bromodichloromethane	1.043	1.045	-0.2	79	0.00
31		Dibromomethane	0.538	0.577	-7.2	83	0.00
32		c-1,3-Dichloropropene	0.717	0.645	10.0	73	0.00
33		4-Methyl-2-Pentanone	1.151	1.029	10.6	68	0.00
34	S	Toluene-d8	0.728	0.651	10.6	69	0.00
35	M	Toluene	1.575	1.429	9.3	71	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	74	0.00
37		t-1,3-Dichloropropene	0.883	0.863	2.3	75	0.00
38		1,1,2-Trichloroethane	0.804	0.823	-2.4	76	0.00
39		1,3-Dichloropropane	1.272	1.316	-3.5	74	0.00
40		Tetrachloroethene	0.896	0.923	-3.0	77	0.00
41		2-Hexanone	0.913	0.772	15.4	67	0.00
42		Dibromochloromethane	1.161	1.188	-2.3	77	0.00
43	t	1,2-Dibromoethane	1.186	1.174	1.0	73	0.00
44		Chlorobenzene	1.649	1.622	1.6	74	0.00
45		1,1,1,2-Tetrachloroethane	0.788	0.892	-13.2	83	0.00
46	T	Ethylbenzene	3.007	3.046	-1.3	71	0.00
47	T	p,&m-Xylene	2.300	2.539	-10.4	77	0.00
48	T	o-Xylene	2.386	2.370	0.7	71	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT003.D Vial: 16
Acq On : 19 Oct 2011 4:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.517	1.463	3.6	71	0.00
50		Bromoform	0.916	0.877	4.3	76	0.00
51		Isopropyl benzene	2.901	3.335	-15.0	77	0.00
52	M	1,1,2,2-Tetrachloroethane	1.813	1.779	1.9	77	0.00
53	S	4-Bromofluorobenzene	0.423	0.485	-14.7	84	0.00
54		Benzyl Chloride	1.386	1.199	13.5	89	0.00
55		1,2,3-Trichloropropane	0.547	0.617	-12.8	80	0.00
56		n-Propyl Benzene	3.353	3.616	-7.8	73	0.00
57		Bromobenzene	1.781	1.940	-8.9	75	0.00
58		4-Ethyl Toluene	2.934	2.956	-0.7	72	0.00
59	T	1,3,5-Trimethylbenzene	2.587	2.531	2.2	75	0.00
60		2-Chlorotoluene	2.657	3.403	-28.1	89	0.00
61		4-Chlorotoluene	2.234	2.465	-10.3	76	0.00
62		tert-Butylbenzene	2.160	2.354	-9.0	76	0.00
63		1,2,4-Trimethylbenzene	2.426	2.661	-9.7	80	0.00
64		sec-Butylbenzene	2.929	3.227	-10.2	74	0.00
65		p-Isopropyltoluene	1.959	2.247	-14.7	76	0.00
66		1,3-Dichlorobenzene	1.362	1.391	-2.1	79	0.00
67		1,4-Dichlorobenzene	1.332	1.351	-1.4	80	0.00
68		n-Butylbenzene	1.921	2.254	-17.3	78	0.00
69		1,2-Dichlorobenzene	1.294	1.376	-6.3	84	0.00
70		1,2-Dibromo-3-chloropropane	0.296	0.259	12.5	72	0.00
71		1,2,4-Trichlorobenzene	0.641	0.492	23.2	61	0.00
72		Hexachlorobutadiene	0.729	0.724	0.7	86	0.00

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\19OCT003.D Vial: 16
Acq On : 19 Oct 2011 4:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	79	0.00
2		Propene	1.794	1.832	-2.1	82	0.02
3		isobutane	0.105	0.121	-15.2	88	0.02
4		1,3-Butadiene	1.725	1.885	-9.3	88	0.02
5		Methanol	0.289	0.228	21.1	118	0.02
6		Acetaldehyde	0.771	0.861	-11.7	83	0.02
7		Ethanol	0.623	0.696	-11.7	75	0.01
8		Vinyl Bromide	0.911	0.813	10.8	68	0.01
9		Isopropanol	3.331	3.122	6.3	67	0.01
10		Acrolein	0.670	0.604	9.9	67	0.02
11		t-Butanol	3.100	3.132	-1.0	75	0.14
12		Allyl Chloride	2.347	2.129	9.3	69	0.01
13		Acrylonitrile	1.555	1.494	3.9	71	0.02
14		t-Butyl methyl ether	5.180	5.199	-0.4	75	0.01
15		n-Hexane	3.655	3.355	8.2	67	0.01
16		Isopropyl ether	7.035	6.674	5.1	68	0.00
17		t-Butyl ethyl ether	2.122	2.193	-3.3	77	0.00
18		Ethyl Acetate	0.519	0.480	7.5	70	0.01
19		2,2-Dichloropropane	3.014	3.535	-17.3	86	0.00
20		Tetrahydrofuran	0.875	0.853	2.5	73	0.02
21		Cyclohexane	3.721	3.362	9.6	67	0.01
22		2,2,4-Trimethylpentane	12.053	12.078	-0.2	72	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
24	S	1,2-Dichloroethane-d4	0.371	0.412	-11.1	87	0.00
25		t-Amyl methyl ether	1.196	1.159	3.1	79	0.01
26		Heptane	0.496	0.457	7.9	72	0.00
27		1,4-Dioxane	0.289	0.280	3.1	70	0.00
28		2-chloroethylvinylether	0.010	0.007	30.0	77	0.00
29	S	Toluene-d8	0.724	0.648	10.5	69	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	74	0.00
31		Cyclohexanone	0.907	0.808	10.9	68	0.00
32	S	4-Bromofluorobenzene	0.765	0.808	-5.6	81	0.01
33		Dicyclopentadiene	0.028	0.028	0.0	79	0.00
34		Naphthalene	1.594	1.014	36.4#	57	0.00
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AirTECHNOLOGY
Laboratories, Inc.

November 22, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – SSD System; E742
Lab Number: C110803-01/03

Enclosed are results for sample(s) received 11/08/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Isopropanol recovery in the continuing calibration verification was high. Results in the samples were ND and were not affected.
- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME: Standard ■ 48 hours ☐ Same Day ☐ 72 hours ☐ 24 hours ☐ 96 hours ☐ Other:

DELIVERABLES: EDD ■ EDF ☐ Level 3 ☐ Level 4 ☐

PAGE: 1 OF 1

Condition upon receipt: Sealed Yes ☐ No ☐ Intact Yes ☐ No ☐ Chilled _____ deg C

Project No.:	E742
Project Name:	Omega - SSD System
Report To:	Ken Hewlett
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	khewlett@demaximis.com

BILLING

P.O. No.:	
Bill to:	de maximis, inc.
	1322 Scott Street, Suite 104
	San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 (TAL 2.3)					
C110803 -01	OC_SSD_GAC_INF_110811	11/8/2011	1120	Summa	Air	No/C	X					
-02	OC_SSD_GAC_MID_110811	11/8/2011	1115	Summa	Air	No/C	X					
-03	OC_SSD_GAC_EFF_110811	11/8/2011	1110	Summa	Air	No/C	X					

AUTHORIZATION TO PERFORM WORK: Carlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 11/8/11	1348
SAMPLED BY: Carlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 11/8/11	1348
RELINQUISHED BY: [signature]	DATE/TIME: 11/8/11 1348	RECEIVED BY: DON TIONGSON	DATE/TIME: 11/8/11 1348
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SDD System
Project No.: E742
Date Received: 11/08/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110803-01			C110803-02			C110803-03		
Client Sample I.D.:	OC_SSD_GAC_INF_11081 1			OC_SSD_GAC_MID_1108 11			OC_SSD_GAC_EFF_1108 11		
Date Sampled:	11/08/11			11/08/11			11/08/11		
Date Analyzed:	11/19/11			11/19/11			11/19/11		
QC Batch No.:	111119MS2A1			111119MS2A1			111119MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	56			210			1.8		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	ND	56	2.7	ND	210	9.9	30	1.8	0.086
Vinyl Chloride	ND	56	12	ND	210	46	1.0 J	1.8	0.40
Trichlorofluoromethane (11)	1,100	56	23	7,500	210	86	ND	1.8	0.74
1,1-Dichloroethene	4,700	56	6.1	920	210	23	ND	1.8	0.19
Carbon Disulfide	41 J	280	8.3	ND	1,000	31	ND	9.0	0.27
1,1,2-Cl 1,2,2-F ethane (113)	4,600	56	13	36,000	210	48	ND	1.8	0.41
Acetone	160 J	280	18	810 J	1,000	66	7.0 J	9.0	0.57
Methylene Chloride	ND	56	11	ND	210	41	ND	1.8	0.35
t-1,2-Dichloroethene	ND	56	9.1	ND	210	34	ND	1.8	0.29
1,1-Dichloroethane	29 J	56	6.7	ND	210	25	ND	1.8	0.21
2-Butanone	ND	56	14	ND	210	53	7.3	1.8	0.46
Chloroform	380	56	7.8	40 J	210	29	ND	1.8	0.25
1,1,1-Trichloroethane	ND	56	6.4	ND	210	24	ND	1.8	0.21
Carbon Tetrachloride	ND	56	6.4	ND	210	24	ND	1.8	0.21
Benzene	19 J	56	11	ND	210	41	0.39 J	1.8	0.35
1,2-Dichloroethane	ND	56	15	ND	210	55	ND	1.8	0.47
Trichloroethene	940	56	8.7	ND	210	32	ND	1.8	0.28
Toluene	15 J	56	7.2	43 J	210	27	0.30 J	1.8	0.23
1,1,2-Trichloroethane	ND	56	11	ND	210	43	ND	1.8	0.37
Tetrachloroethene	13,000	56	6.3	520	210	24	ND	1.8	0.20
o-Xylene	24 J	56	7.8	94 J	210	29	ND	1.8	0.25
Isopropanol	ND	280	38	ND	1,000	140	ND	9.0	1.2
n-Hexane	ND	280	14	ND	1,000	53	ND	9.0	0.45
1,4-Dioxane	ND	280	37	ND	1,000	140	ND	9.0	1.2
Total VOC's	25,000			45,000			39		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	92%	70-130%	97%	70-130%	87%	70-130%
Toluene-d8	96%	70-130%	91%	70-130%	90%	70-130%
4-Bromofluorobenzene	103%	70-130%	106%	70-130%	97%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 11/22/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SDD System
Project No.: E742
Date Received: 11/08/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110803-01			C110803-02			C110803-03		
Client Sample I.D.:	OC_SSD_GAC_INF_110811			OC_SSD_GAC_MID_110811			OC_SSD_GAC_EFF_110811		
Date Sampled:	11/08/11			11/08/11			11/08/11		
Date Analyzed:	11/19/11			11/19/11			11/19/11		
QC Batch No.:	111119MS2A1			111119MS2A1			111119MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	56			210			1.8		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	ND	280	13	ND	1,000	49	150	8.9	0.42
Vinyl Chloride	ND	140	32	ND	530	120	2.7 J	4.6	1.0
Trichlorofluoromethane (11)	6,100	320	130	42,000	1,200	480	ND	10	4.2
1,1-Dichloroethene	19,000	220	24	3,700	830	90	ND	7.2	0.77
Carbon Disulfide	130 J	870	26	ND	3,300	97	ND	28	0.83
1,1,2-Cl 1,2,2-F ethane (113)	36,000	430	99	280,000	1,600	370	ND	14	3.2
Acetone	380 J	670	42	1,900 J	2,500	160	17 J	21	1.3
Methylene Chloride	ND	200	38	ND	730	140	ND	6.3	1.2
t-1,2-Dichloroethene	ND	220	36	ND	830	130	ND	7.2	1.2
1,1-Dichloroethane	120 J	230	27	ND	850	100	ND	7.3	0.87
2-Butanone	ND	170	42	ND	620	160	22	5.3	1.3
Chloroform	1,900	270	38	190 J	1,000	140	ND	8.8	1.2
1,1,1-Trichloroethane	ND	310	35	ND	1,100	130	ND	9.8	1.1
Carbon Tetrachloride	ND	350	41	ND	1,300	150	ND	11	1.3
Benzene	61 J	180	35	ND	670	130	1.2 J	5.8	1.1
1,2-Dichloroethane	ND	230	60	ND	850	220	ND	7.3	1.9
Trichloroethene	5,100	300	47	ND	1,100	170	ND	9.7	1.5
Toluene	58 J	210	27	160 J	790	100	1.1 J	6.8	0.87
1,1,2-Trichloroethane	ND	310	63	ND	1,100	230	ND	9.8	2.0
Tetrachloroethene	86,000	380	43	3,500	1,400	160	ND	12	1.4
o-Xylene	110 J	240	34	410 J	910	130	ND	7.8	1.1
Isopropanol	ND	690	94	ND	2,600	350	ND	22	3.0
n-Hexane	ND	990	50	ND	3,700	190	ND	32	1.6
1,4-Dioxane	ND	1,000	130	ND	3,800	490	ND	33	4.2
Total VOC's	150,000			330,000			180		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	92%	70-130%	97%	70-130%	87%	70-130%
Toluene-d8	96%	70-130%	91%	70-130%	90%	70-130%
4-Bromofluorobenzene	103%	70-130%	106%	70-130%	97%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 11/22/11

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111119MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	11/19/11		11/19/11		11/19/11						
Data File ID:	19NOV006.D		19NOV004.D		19NOV013.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.3	113	11.4	114	1.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.2	112	11.1	111	1.3	70	130	30	Pass
Trichloroethene	0.0	10.0	10.3	103	10.0	100	2.7	70	130	30	Pass
Toluene	0.0	10.0	9.3	93	9.6	96	3.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.9	119	11.4	114	4.6	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 11/22/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111114\19NOV002.D
Tune Time : 18 Nov 2011 23:59

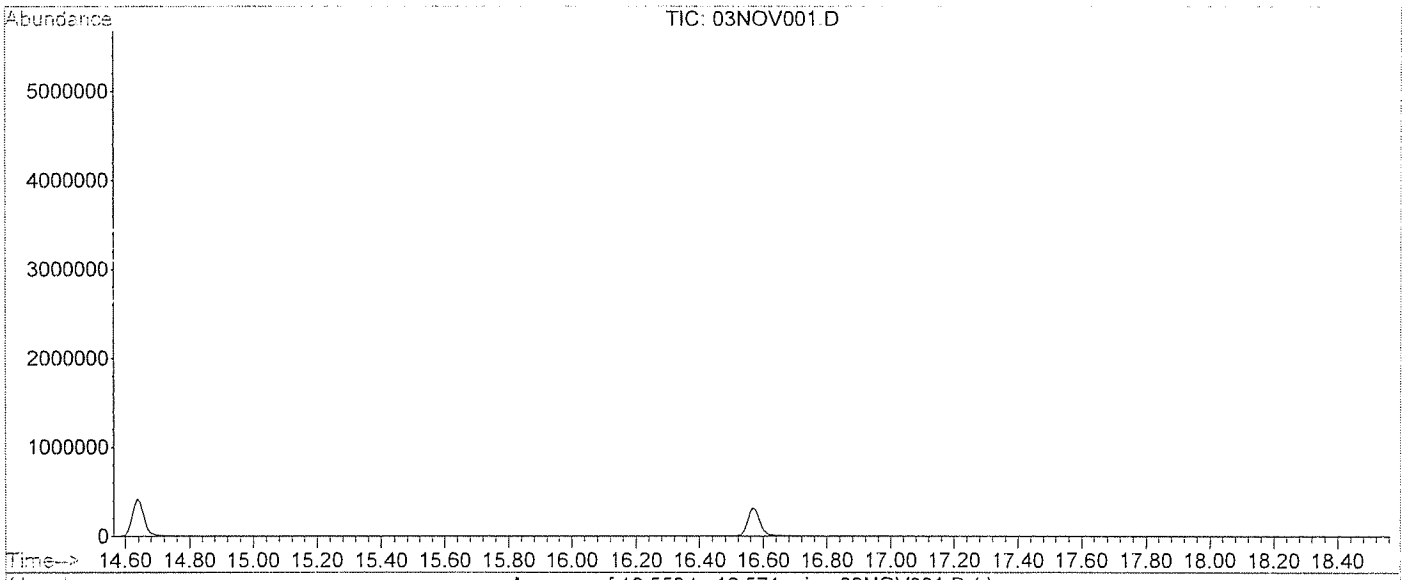
Daily Calibration File : D:\GCMSB\111114\19NOV003.D

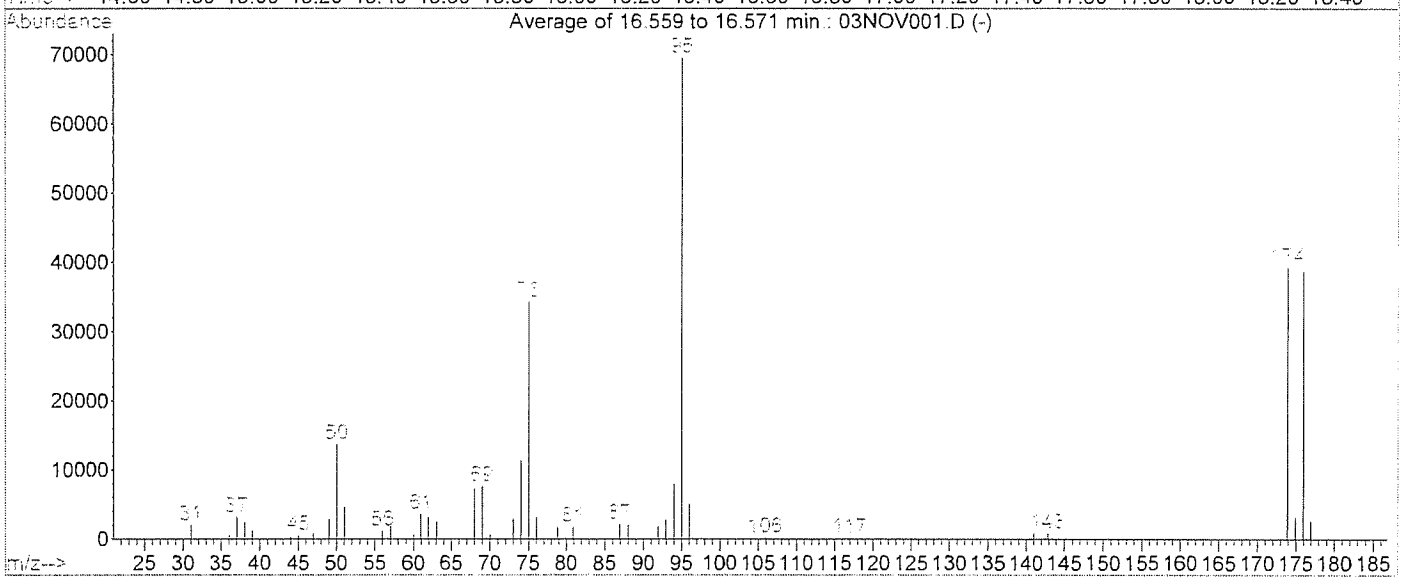
					Daily cali. I.S. response		
					40645	180551	117369
File	Sample	Surrogate Recovery %			Internal Standard Responses		
19NOV004	TO15 LCS	91	95	99	38205	177284	110984
19NOV006	METHOD BLANK	91	94	84	37617	173367	107622
19NOV013	TO15 LCSD	93	94	96	40536	180983	119973
19NOV017	C110802-02	91	87	94	43906	194671	112750
19NOV018	C110803-01	92	96	103	44898	196680	132117
19NOV019	C110803-02	97	91	106	41385	186641	114613
19NOV020	C110803-03	87	90	97	41439	195196	110981
19NOV021	C111001-01	91	96	100	41726	200265	139522
19NOV022	C111001-02	92	97	98	41480	198733	134609
19NOV023	C111001-03	91	98	96	42842	200509	127641

surrogate recovery limits 70-130%
Internal standard response limits 60-140%

t - fails 24hr time check * - fails criteria
Created:Tue Nov 22 08:49:43 2011

Data File : D:\GCMSB\111031\03NOV001.D Vial: 4
Acq On : 3 Nov 2011 13:53 Operator: VM
Sample : BFB Inst : GC/MS 597
Misc : 150ML (AFTER TRAP REPLACEMENT) Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm





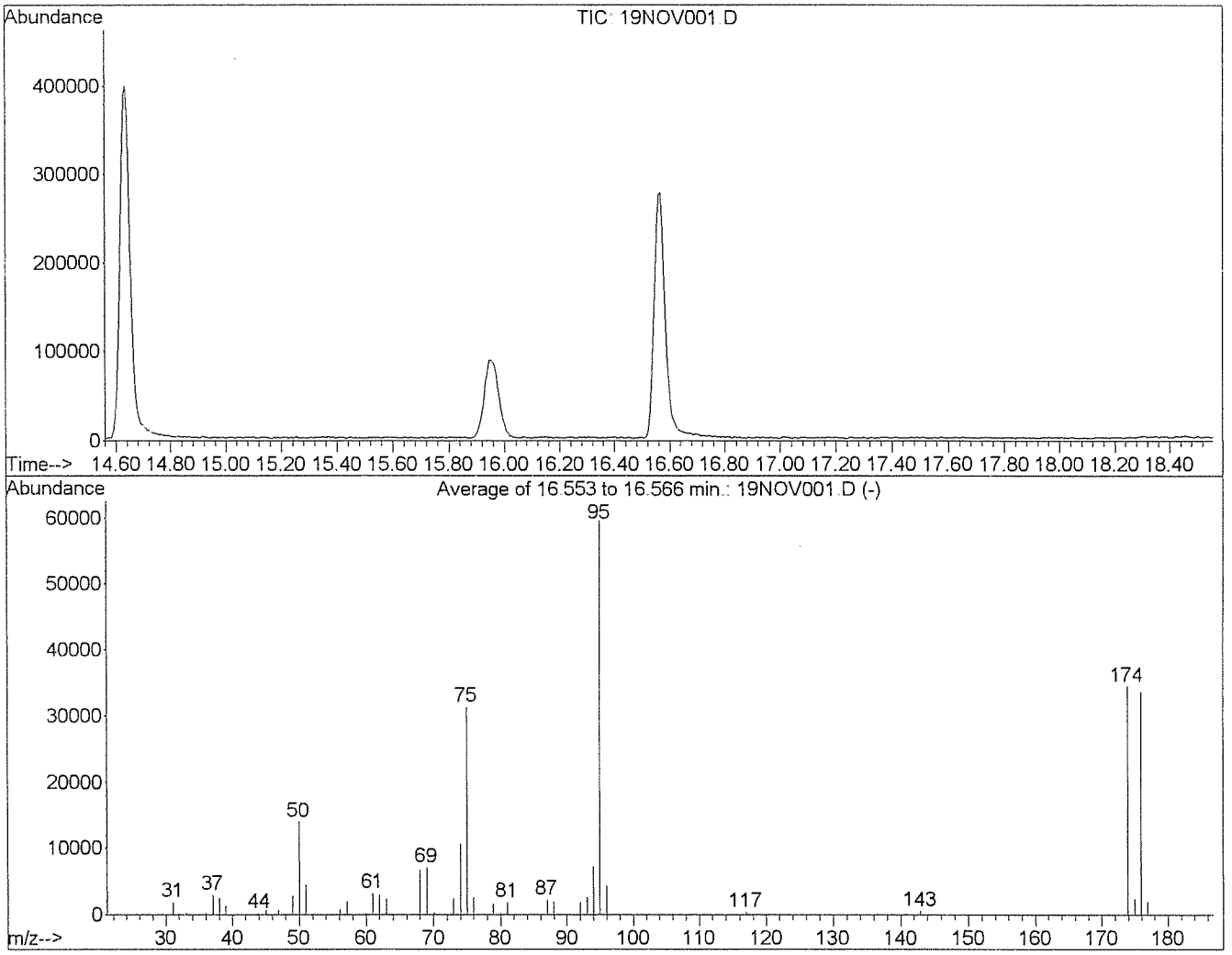
AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	13692	PASS
75	95	30	60	49.3	34251	PASS
95	95	100	100	100.0	69525	PASS
96	95	5	9	7.3	5045	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.5	39248	PASS
175	174	5	9	7.9	3117	PASS
176	174	95	101	98.7	38731	PASS
177	176	5	9	6.6	2572	PASS

BFB

Data File : D:\GCMSB\111114\19NOV001.D
Acq On : 18 Nov 2011 23:22
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00



AutoFind: Scans 2200, 2201, 2202; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	14051	PASS
75	95	30	60	52.6	31360	PASS
95	95	100	100	100.0	59675	PASS
96	95	5	9	7.3	4336	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	57.9	34536	PASS
175	174	5	9	7.2	2493	PASS
176	174	95	101	97.5	33667	PASS
177	176	5	9	6.0	2030	PASS

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	6.224	6.094	5.996	5.490	4.873	3.597	5.379	18.69
3)		Chloromethane	2.188	1.847	1.774	1.579	1.501	1.200	1.681	20.04
4)		1,2-Cl-1,1,2,2-F et	5.442	5.629	5.388	4.999	4.462	3.338	4.876	17.64
5)		Vinyl Chloride	1.645	1.715	1.627	1.452	1.376	1.125	1.490	14.73
6)		Bromomethane	1.470	0.715	1.206	0.745	1.110	0.591	0.973	35.16
7)		Chloroethane	1.104	1.079	1.016	1.214	0.918	0.733	1.011	16.58
8)		Trichlorofluorometh	6.426	6.153	6.005	5.573	5.119	3.985	5.543	16.08
9)	M	1,1-Dichloroethene	3.545	3.584	3.289	3.103	3.059	2.369	3.158	14.05
10)		Carbon Disulfide	5.645	5.413	4.908	4.526	4.412	3.376	4.713	17.27
11)		1,1,2-Cl 1,2,2-F et	3.264	3.069	2.784	2.569	2.531	1.973	2.698	16.87
12)		Acetone	5.168	4.583	3.760	3.571	3.532	2.590	3.867	23.26
13)	M	Methylene Chloride	1.853	1.687	1.586	1.452	1.426	1.124	1.521	16.45
14)		t-1,2-Dichloroethen	1.811	1.965	1.840	1.688	1.679	1.346	1.722	12.33
15)		1,1-Dichloroethane	4.175	3.945	3.725	3.504	3.247	2.423	3.503	17.73
16)		Vinyl Acetate	6.696	7.776	7.113	7.292	6.444	4.832	6.692	15.28
17)		c-1,2-Dichloroethen	1.909	2.044	1.936	1.888	1.701	1.292	1.795	15.06
18)		2-Butanone	0.806	0.945	0.943	0.874	0.875	0.664	0.851	12.36
19)		t-Butyl Methyl Ethe	6.111	5.746	5.162	4.937	5.008	4.160	5.187	13.12
20)	t	Chloroform	4.790	4.478	4.353	4.019	3.825	2.989	4.076	15.50
21)		1,1,1-Trichloroetha	4.497	4.186	3.720	3.824	3.984	3.237	3.908	10.99
22)		1,1-Dichloropropene	3.606	3.353	3.343	3.145	2.817	2.176	3.074	16.66
23)	t	Carbon Tetrachlorid	3.340	3.382	3.037	3.338	3.803	3.134	3.339	7.93
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.920	1.408	1.373	1.309	1.340	1.170	1.420	18.18
26)	S	1,2-Dichloroethane-	0.379	0.381	0.422	0.453	0.479	0.624	0.456	19.91
27)		1,2-Dichloroethane	0.772	0.696	0.747	0.700	0.745	0.639	0.717	6.72
28)	M	Trichloroethene	0.544	0.518	0.559	0.540	0.582	0.513	0.542	4.75
29)		1,2-Dichloropropane	0.498	0.485	0.507	0.496	0.530	0.470	0.498	4.11
30)		Bromodichloromethan	0.882	0.883	0.932	0.949	1.034	0.882	0.927	6.47
31)		Dibromomethane	0.542	0.581	0.562	0.550	0.566	0.482	0.547	6.33
32)		c-1,3-Dichloroprope	0.615	0.608	0.592	0.672	0.796	0.727	0.668	11.98
33)		4-Methyl-2-Pentanon	1.035	1.027	1.092	1.107	1.154	1.013	1.071	5.15
34)	S	Toluene-d8	0.857	0.849	0.861	0.852	0.865	0.867	0.858	0.81
35)	M	Toluene	1.867	1.499	1.566	1.516	1.557	1.367	1.562	10.60
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.583	0.668	0.659	0.763	1.008	0.955	0.773	22.31
38)		1,1,2-Trichloroetha	0.765	0.770	0.829	0.790	0.800	0.705	0.776	5.38
39)		1,3-Dichloropropane	1.276	1.219	1.267	1.197	1.212	1.073	1.207	6.04
40)		Tetrachloroethene	0.989	0.878	0.961	0.908	0.906	0.804	0.908	7.14
41)		2-Hexanone	0.568	0.671	0.786	0.819	0.818	0.736	0.733	13.45
42)		Dibromochloromethan	1.003	1.033	1.135	1.185	1.398	1.253	1.168	12.50
43)	t	1,2-Dibromoethane	1.129	1.075	1.231	1.203	1.253	1.105	1.166	6.25
44)		Chlorobenzene	1.677	1.539	1.738	1.640	1.650	1.482	1.621	5.78
45)		1,1,1,2-Tetrachloro	0.712	0.742	0.708	0.762	0.886	0.808	0.770	8.82
46)	T	Ethylbenzene	2.809	2.657	2.926	2.815	2.784	2.439	2.738	6.20
47)	T	p,&m-Xylene	2.672	2.170	2.458	2.262	2.153	1.695	2.235	14.75
48)	T	o-Xylene	3.044	2.297	2.543	2.389	2.343	2.000	2.436	14.24
49)		Styrene	1.302	1.411	1.625	1.591	1.558	1.397	1.481	8.69
50)		Bromoform	0.631	0.643	0.726	0.830	1.032	0.956	0.803	20.68

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	3.404	2.955	3.096	2.929	2.845	2.528	2.960	9.75
52)	M	1,1,2,2-Tetrachloro	1.704	1.633	1.680	1.595	1.583	1.378	1.595	7.29
53)	S	4-Bromofluorobenzen	0.342	0.350	0.370	0.366	0.371	0.374	0.362	3.59
54)		Benzyl Chloride	0.797	0.608	0.541	0.852	1.487	1.652	0.990	47.18
55)		1,2,3-Trichloroprop	0.558	0.565	0.598	0.581	0.584	0.530	0.569	4.24
56)		n-Propyl Benzene	4.237	3.487	3.697	3.493	3.303	2.749	3.494	13.93
57)		Bromobenzene	1.827	1.535	1.655	1.568	1.485	1.254	1.554	12.22
58)		4-Ethyl Toluene	3.409	3.070	3.168	2.981	3.081	2.697	3.068	7.60
59)	T	1,3,5-Trimethylbenz	3.695	2.576	2.681	2.530	2.272	1.875	2.605	23.32
60)		2-Chlorotoluene	3.207	2.578	2.680	2.656	2.429	2.320	2.645	11.64
61)		4-Chlorotoluene	2.691	2.007	2.236	2.194	2.118	1.853	2.183	13.04
62)		tert-Butylbenzene	2.853	2.419	2.532	2.389	2.265	2.055	2.419	11.06
63)		1,2,4-Trimethylbenz	3.277	2.831	2.705	2.609	2.539	2.197	2.693	13.25
64)		sec-Butylbenzene	3.470	2.980	3.250	3.070	2.913	2.558	3.040	10.22
65)		p-Isopropyltoluene	2.400	2.323	2.524	2.407	2.284	2.035	2.329	7.13
66)		1,3-Dichlorobenzene	1.889	1.309	1.482	1.422	1.437	1.296	1.473	14.74
67)		1,4-Dichlorobenzene	1.870	1.344	1.447	1.411	1.430	1.287	1.465	14.15
68)		n-Butylbenzene	2.418	2.003	2.136	2.088	2.004	1.785	2.072	10.03
69)		1,2-Dichlorobenzene	1.570	1.324	1.416	1.368	1.357	1.223	1.376	8.34
70)		1,2-Dibromo-3-chlor	0.207	0.229	0.230	0.289	0.335	0.340	0.272	21.35
71)		1,2,4-Trichlorobenz	0.878	0.558	0.786	0.802	0.765	0.733	0.754	14.24
72)		Hexachlorobutadiene	0.809	0.556	0.660	0.647	0.547	0.548	0.628	16.32

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111114\19NOV003.D
Acq On : 19 Nov 2011 00:37
Sample : TO15 CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	95	-0.01
2		Dichlorodifluoromethane (12	5.379	6.624	-23.1	105	-0.01
3		Chloromethane	1.681	2.038	-21.2	110	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	4.876	5.990	-22.8	106	0.00
5		Vinyl Chloride	1.490	1.839	-23.4	108	0.00
6		Bromomethane	0.973	1.487	-52.8#	118	0.00
7		Chloroethane	1.011	1.216	-20.3	114	0.00
8		Trichlorofluoromethane (11)	5.543	6.586	-18.8	105	0.00
9	M	1,1-Dichloroethene	3.158	3.487	-10.4	101	0.00
10		Carbon Disulfide	4.713	5.334	-13.2	104	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	2.698	2.942	-9.0	101	0.00
12		Acetone	3.867	4.117	-6.5	104	0.00
13	M	Methylene Chloride	1.521	1.689	-11.0	102	-0.01
14		t-1,2-Dichloroethene	1.722	1.991	-15.6	103	0.00
15		1,1-Dichloroethane	3.503	4.249	-21.3	109	0.00
16		Vinyl Acetate	6.692	8.470	-26.6	114	0.00
17		c-1,2-Dichloroethene	1.795	2.187	-21.8	108	0.00
18		2-Butanone	0.851	1.018	-19.6	103	0.00
19		t-Butyl Methyl Ether	5.187	5.938	-14.5	110	0.00
20	t	Chloroform	4.076	4.712	-15.6	103	0.00
21		1,1,1-Trichloroethane	3.908	4.605	-17.8	118	0.00
22		1,1-Dichloropropene	3.074	3.180	-3.4	91	0.00
23	t	Carbon Tetrachloride	3.339	4.238	-26.9	133	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
25	T	Benzene	1.420	1.463	-3.0	100	-0.01
26	S	1,2-Dichloroethane-d4	0.456	0.426	6.6	94	0.00
27		1,2-Dichloroethane	0.717	0.859	-19.8	107	0.00
28	M	Trichloroethene	0.542	0.593	-9.4	99	0.00
29		1,2-Dichloropropane	0.498	0.574	-15.3	106	0.00
30		Bromodichloromethane	0.927	1.108	-19.5	111	0.00
31		Dibromomethane	0.547	0.559	-2.2	93	0.00
32		c-1,3-Dichloropropene	0.668	0.805	-20.5	127	0.00
33		4-Methyl-2-Pentanone	1.071	1.285	-20.0	110	-0.01
34	S	Toluene-d8	0.858	0.827	3.6	90	0.00
35	M	Toluene	1.562	1.615	-3.4	96	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
37		t-1,3-Dichloropropene	0.773	0.991	-28.2	137	-0.01
38		1,1,2-Trichloroethane	0.776	0.926	-19.3	101	-0.01
39		1,3-Dichloropropane	1.207	1.281	-6.1	92	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111114\19NOV003.D
Acq On : 19 Nov 2011 00:37
Sample : TO15 CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Tetrachloroethene	0.908	1.028	-13.2	97	0.00
41		2-Hexanone	0.733	0.941	-28.4	108	0.00
42		Dibromochloromethane	1.168	1.472	-26.0	118	-0.01
43	t	1,2-Dibromoethane	1.166	1.415	-21.4	104	0.00
44		Chlorobenzene	1.621	1.850	-14.1	97	0.00
45		1,1,1,2-Tetrachloroethane	0.770	0.892	-15.8	114	-0.01
46	T	Ethylbenzene	2.738	3.023	-10.4	94	0.00
47	T	p,&m-Xylene	2.235	2.449	-9.6	90	0.00
48	T	o-Xylene	2.436	2.516	-3.3	90	0.00
49		Styrene	1.481	1.600	-8.0	89	0.00
50		Bromoform	0.803	1.050	-30.8#	131	0.00
51		Isopropyl benzene	2.960	2.793	5.6	82	0.00
52	M	1,1,2,2-Tetrachloroethane	1.595	1.929	-20.9	104	0.00
53	S	4-Bromofluorobenzene	0.362	0.347	4.1	85	0.00
54		Benzyl Chloride	0.990	1.060	-7.1	178#	0.00
55		1,2,3-Trichloropropane	0.569	0.623	-9.5	94	0.00
56		n-Propyl Benzene	3.494	3.375	3.4	83	-0.01
57		Bromobenzene	1.554	1.730	-11.3	95	0.00
58		4-Ethyl Toluene	3.068	3.071	-0.1	88	0.00
59	T	1,3,5-Trimethylbenzene	2.605	2.870	-10.2	97	-0.01
60		2-Chlorotoluene	2.645	2.678	-1.2	91	0.00
61		4-Chlorotoluene	2.183	2.219	-1.6	90	0.00
62		tert-Butylbenzene	2.419	2.726	-12.7	98	0.00
63		1,2,4-Trimethylbenzene	2.693	2.913	-8.2	98	0.00
64		sec-Butylbenzene	3.040	3.299	-8.5	92	-0.01
65		p-Isopropyltoluene	2.329	2.656	-14.0	95	0.00
66		1,3-Dichlorobenzene	1.473	1.514	-2.8	93	0.00
67		1,4-Dichlorobenzene	1.465	1.504	-2.7	94	0.00
68		n-Butylbenzene	2.072	2.673	-29.0	113	0.00
69		1,2-Dichlorobenzene	1.376	1.460	-6.1	93	0.00
70		1,2-Dibromo-3-chloropropane	0.272	0.482	-77.2#	190#	-0.01
71		1,2,4-Trichlorobenzene	0.754	1.020	-35.3#	118	-0.01
72		Hexachlorobutadiene	0.628	0.817	-30.1#	112	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL111103.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Tue Nov 22 07:58:06 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Propene	2.022	1.631	1.460	1.380	1.228	0.935	1.443	25.55
3)		isobutane		0.068	0.066	0.058	0.066	0.055	0.063	9.07
4)		1,3-Butadiene	1.153	1.120	1.006	0.980	0.922	0.787	0.995	13.43
5)		Methanol	3.404	0.986	0.263	0.270	0.064	0.041	0.838	~~155.57~~ NA
6)		Acetaldehyde		0.706	0.526	0.433	0.441	0.367	0.494	26.53
7)		Ethanol		0.691	0.558	0.560	0.529	0.442	0.556	16.05
8)		Vinyl Bromide	0.874	1.020	1.049	0.951	0.936	0.760	0.932	11.24
9)		Isopropanol	4.212	2.983	2.509	2.661	3.112	2.510	2.998	21.50
10)		Acrolein	0.554	0.557	0.680	0.666	0.548	0.444	0.575	15.17
11)		t-Butanol		3.453	2.409	2.730	3.092	2.725	2.882	13.90
12)		Allyl Chloride	2.747	2.860	2.771	2.714	2.341	1.883	2.553	14.65
13)		Acrylonitrile	0.730	1.554	1.383	1.397	1.341	1.107	1.252	23.46
14)		t-Butyl methyl ethe	6.111	5.746	5.135	4.937	5.014	4.167	5.185	13.09
15)		n-Hexane	3.559	3.454	3.145	2.977	2.841	2.206	3.030	16.10
16)		Isopropyl ether	7.788	7.396	7.274	6.759	5.964	4.354	6.589	19.16
17)		t-Butyl ethyl ether	2.728	2.520	1.780	1.874	2.060	1.806	2.128	18.88
18)		Ethyl Acetate		0.434	0.428	0.443	0.477	0.364	0.429	9.59
19)		2,2-Dichloropropane	3.406	3.175	2.141	2.477	2.979	2.473	2.775	17.51
20)		Tetrahydrofuran	1.108	0.958	0.952	0.914	0.868	0.700	0.917	14.52
21)		Cyclohexane	3.528	3.542	3.392	3.177	2.920	2.285	3.141	15.31
22)		2,2,4-Trimethylpent	1.193	1.138	1.083	1.004	0.862	0.643	0.987	E1 20.71
23)	I	1,4-Difluorobenzene	----------ISTD----------							
24)	S	1,2-Dichloroethane-	0.397	0.376	0.421	0.459	0.441	0.462	0.426	8.17
25)		t-Amyl methyl ether	1.386	1.290	1.035	1.148	1.334	1.219	1.235	10.45
26)		Heptane	0.496	0.466	0.460	0.459	0.476	0.416	0.462	5.73
27)		1,4-Dioxane	0.290	0.305	0.327	0.325	0.336		0.317	5.86
28)		2-chloroethylvinyle		0.002	0.018	0.003	0.005	0.005	0.007	100.18
29)	S	Toluene-d8	0.860	0.835	0.863	0.855	0.861	0.865	0.857	1.31
30)		Chlorobenzene-d5	----------ISTD----------							
31)		Cyclohexanone		0.694	0.727	0.747	0.720	0.649	0.707	5.33
32)	S	4-Bromofluorobenzen	0.583	0.557	0.606	0.605	0.667	0.756	0.629	11.42
33)		Dicyclopentadiene		0.023	0.024	0.025	0.009	0.022	0.020	~~32.20~~ NA
34)		Naphthalene		1.556	1.965	2.071	1.916	1.853	1.872	10.35
35)		1,2,3-Trichlorobenz				0.001	0.003	0.004	0.003	~~50.70~~ NA

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111114\19NOV003.D Vial: 16
Acq On : 19 Nov 2011 00:37 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL111103.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Nov 04 13:04:46 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	95	0.00
2		Propene	1.443	1.690	-17.1	110	0.02
3		isobutane	0.063	0.067	-6.3	96	0.03
4		1,3-Butadiene	0.995	1.226	-23.2	116	0.00
5		Methanol	0.838	0.433	48.3#	156#	0.00
6		Acetaldehyde	0.494	0.457	7.5	82	0.00
7		Ethanol	0.556	1.248	-124.5#	212#	0.00
8		Vinyl Bromide	0.932	1.775	-90.5#	161#	0.00
9		Isopropanol	2.998	4.095	-36.6#	155#	0.00
10		Acrolein	0.575	0.753	-31.0#	105	0.00
11		t-Butanol	2.438	3.612	-48.2#	142	0.12
12		Allyl Chloride	2.553	2.749	-7.7	94	0.00
13		Acrylonitrile	1.252	1.380	-10.2	95	0.00
14		t-Butyl methyl ether	5.185	5.938	-14.5	110	0.00
15		n-Hexane	3.030	3.506	-15.7	106	0.00
16		Isopropyl ether	6.589	7.075	-7.4	92	0.00
17		t-Butyl ethyl ether	2.128	2.384	-12.0	127	0.00
18		Ethyl Acetate	0.429	0.538	-25.4	119	0.00
19		2,2-Dichloropropane	2.775	3.132	-12.9	139	0.00
20		Tetrahydrofuran	0.917	1.079	-17.7	108	0.00
21		Cyclohexane	3.141	3.724	-18.6	104	0.00
22		2,2,4-Trimethylpentane	9.871	10.705	-8.4	94	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
24	S	1,2-Dichloroethane-d4	0.362	0.426	-17.7	1182#	0.00
25		t-Amyl methyl ether	1.235	1.250	-1.2	114	0.00
26		Heptane	0.462	0.490	-6.1	101	0.00
27		1,4-Dioxane	0.317	0.387	-22.1	112	0.00
28		2-chloroethylvinylether	0.007	0.002	71.4#	11#	0.00
29	S	Toluene-d8	0.857	0.819	4.4	89	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
31		Cyclohexanone	0.707	0.919	-30.0	115	0.00
32	S	4-Bromofluorobenzene	0.629	0.610	3.0	92	0.00
33		Dicyclopentadiene	0.020	0.033	-65.0#	128	0.00
34		Naphthalene	1.872	2.725	-45.6#	126	0.00
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AirTECHNOLOGY
Laboratories, Inc.

December 30, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – SSD System; E742
Lab Number: C121507-01/03

Enclosed are results for sample(s) received 12/15/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

PAGE: 1 **OF** 1

TURNAROUND TIME				DELIVERABLES		Condition upon receipt:
Standard	■	48 hours	☐	EDD	■	Sealed Yes ☐ No ☐
Same Day	☐	72 hours	☐	EDF	☐	Intact Yes ☐ No ☐
24 hours	☐	96 hours	☐	Level 3	☐	Chilled _____ deg C
Other:				Level 4	☐	

Project No.:	E742
Project Name:	Omega - SSD System
Report To:	Jaime Dinello
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:	
Bill to:	de maximis, inc.
	1322 Scott Street, Suite 104
	San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 (TAL 2.3)[1]					
C121507-01	OC_SSD_GAC_INF_121411	12/14/2011	1445	Summa	Air	No/C	X					
-02	OC_SSD_GAC_MID_121411	12/14/2011	1439	Summa	Air	No/C	X					
-03	OC_SSD_GAC_EFF_121411	12/14/2011	1432	Summa	Air	No/C	X					

AUTHORIZATION TO PERFORM WORK	COMPANY	DATE/TIME
A. MILLER	JHA	12/14/11 1000
SAMPLED BY	**COMPANY**	**DATE/TIME**
A. MILLER	JHA	12/14/11 1000

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature] 12/15/11	1410	DON THONGSON	12/15/11 1410
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-in FedEx UPS Courier ATLI Other_____

COMMENTS: 1 - Additional analysis of: trans-1,2-Dichloroethene and Acetone

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C121507-01			C121507-02			C121507-03					
Client Sample I.D.:	OC_SSD_GAC_INF_121411			OC_SSD_GAC_MID_121411			OC_SSD_GAC_EFF_121411					
Date Sampled:	12/14/11			12/14/11			12/14/11					
Date Analyzed:	12/21/11			12/22/11			12/21/11					
QC Batch No.:	111221MS3A1			111222MS3A1			111221MS3A1					
Analyst Initials:	DT			DT			DT					
Dilution Factor:	67			89			44					
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv			
Dichlorodifluoromethane (12)	6.6 J	67	3.2	ND	89	4.2	11 J	44	2.1			
Vinyl Chloride	ND	67	15	ND	89	20	ND	44	9.6			
Trichlorofluoromethane (11)	1,000	67	28	3,000	89	36	2,000	44	18			
1,1-Dichloroethene	4,000	67	7.3	11,000	89	9.6	190	44	4.7			
Carbon Disulfide	42 J	340	10.0	45 J	440	13	7.4 J	220	6.5			
1,1,2-Cl 1,2,2-F ethane (113)	4,000	67	15	13,000	89	20	6,100	44	10			
Methylene Chloride	ND	67	13	ND	89	17	ND	44	8.5			
1,1-Dichloroethane	25 J	67	8.0	79 J	89	11	ND	44	5.2			
2-Butanone	ND	67	17	57 J	89	22	ND	44	11			
Chloroform	320	67	9.4	280	89	12	8.8 J	44	6.0			
1,1,1-Trichloroethane	ND	67	7.7	ND	89	10	ND	44	5.0			
Carbon Tetrachloride	ND	67	7.7	ND	89	10	ND	44	5.0			
Benzene	ND	67	13	35 J	89	17	ND	44	8.6			
1,2-Dichloroethane	ND	67	18	ND	89	23	ND	44	11			
Trichloroethene	740	67	10	40 J	89	14	21 J	44	6.8			
Toluene	18 J	67	8.6	220	89	11	16 J	44	5.6			
1,1,2-Trichloroethane	ND	67	14	ND	89	18	ND	44	8.9			
Tetrachloroethene	12,000	67	7.6	64 J	89	10.0	130	44	4.9			
o-Xylene	10 J	67	9.3	170	89	12	12 J	44	6.0			
Isopropanol	ND	340	46	ND	440	60	ND	220	30			
n-Hexane	ND	340	17	ND	440	22	ND	220	11			
1,4-Dioxane	ND	340	44	ND	440	58	ND	220	28			
Total VOC's	22,000			28,000			8,500					

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria		
1,2-Dichloroethane-d4	93%	70-130%	102%	70-130%	96%	70-130%		
Toluene-d8	99%	70-130%	100%	70-130%	98%	70-130%		
4-Bromofluorobenzene	100%	70-130%	90%	70-130%	98%	70-130%		

Table 2-3

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 12/23/11

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SSD System
Project No.: E742
Date Received: 12/15/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C121507-01			C121507-02			C121507-03					
Client Sample I.D.:	OC_SSD_GAC_INF_121411			OC_SSD_GAC_MID_121411			OC_SSD_GAC_EFF_121411					
Date Sampled:	12/14/11			12/14/11			12/14/11					
Date Analyzed:	12/21/11			12/22/11			12/21/11					
QC Batch No.:	111221MS3A1			111222MS3A1			111221MS3A1					
Analyst Initials:	DT			DT			DT					
Dilution Factor:	67			89			44					
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3			
Dichlorodifluoromethane (12)	33 J	330	16	ND	440	21	54 J	220	10			
Vinyl Chloride	ND	170	38	ND	230	50	ND	110	25			
Trichlorofluoromethane (11)	5,700	380	150	17,000	500	200	11,000	240	100			
1,1-Dichloroethene	16,000	270	29	43,000	350	38	750	170	19			
Carbon Disulfide	130 J	1,000	31	140 J	1,400	41	23 J	680	20			
1,1,2-Cl 1,2,2-F ethane (113)	31,000	520	120	99,000	680	160	47,000	330	77			
Methylene Chloride	ND	230	46	ND	310	60	ND	150	30			
1,1-Dichloroethane	100 J	270	32	320 J	360	43	ND	180	21			
2-Butanone	ND	200	50	170 J	260	66	ND	130	33			
Chloroform	1,500	330	46	1,400	430	60	43 J	210	30			
1,1,1-Trichloroethane	ND	370	42	ND	480	55	ND	240	27			
Carbon Tetrachloride	ND	420	49	ND	560	64	ND	270	31			
Benzene	ND	220	42	110 J	280	56	ND	140	27			
1,2-Dichloroethane	ND	270	72	ND	360	94	ND	180	46			
Trichloroethene	4,000	360	56	220 J	480	74	110 J	230	36			
Toluene	69 J	250	32	820	330	43	59 J	160	21			
1,1,2-Trichloroethane	ND	370	75	ND	480	99	ND	240	49			
Tetrachloroethene	81,000	460	51	440 J	600	68	900	300	33			
o-Xylene	44 J	290	40	760	390	53	53 J	190	26			
Isopropanol	ND	830	110	ND	1,100	150	ND	540	73			
n-Hexane	ND	1,200	60	ND	1,600	79	ND	770	39			
1,4-Dioxane	ND	1,200	160	ND	1,600	210	ND	790	100			
Total VOC's	140,000			160,000			60,000					

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria		
1,2-Dichloroethane-d4	93%	70-130%	102%	70-130%	96%	70-130%		
Toluene-d8	99%	70-130%	100%	70-130%	98%	70-130%		
4-Bromofluorobenzene	100%	70-130%	90%	70-130%	98%	70-130%		

Table 2-3

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 12/29/11

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111221MS3A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/21/11		12/21/11		12/21/11						
Data File ID:	21DEC007.D		21DEC005.D		21DEC006.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.5	95	8.0	80	17.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.9	99	8.2	82	18.4	70	130	30	Pass
Trichloroethene	0.0	10.0	7.8	78	7.0	70	11.7	70	130	30	Pass
Toluene	0.0	10.0	8.2	82	7.7	77	6.0	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.9	89	8.3	83	7.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 12/29/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111222MS3A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/22/11		12/22/11		12/22/11						
Data File ID:	22DEC006.D		22DEC004.D		22DEC005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.7	107	10.5	105	1.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.1	101	10.0	100	1.2	70	130	30	Pass
Trichloroethene	0.0	10.0	10.0	100	9.8	98	1.9	70	130	30	Pass
Toluene	0.0	10.0	9.7	97	9.7	97	0.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.6	86	8.9	89	2.9	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 12/29/11

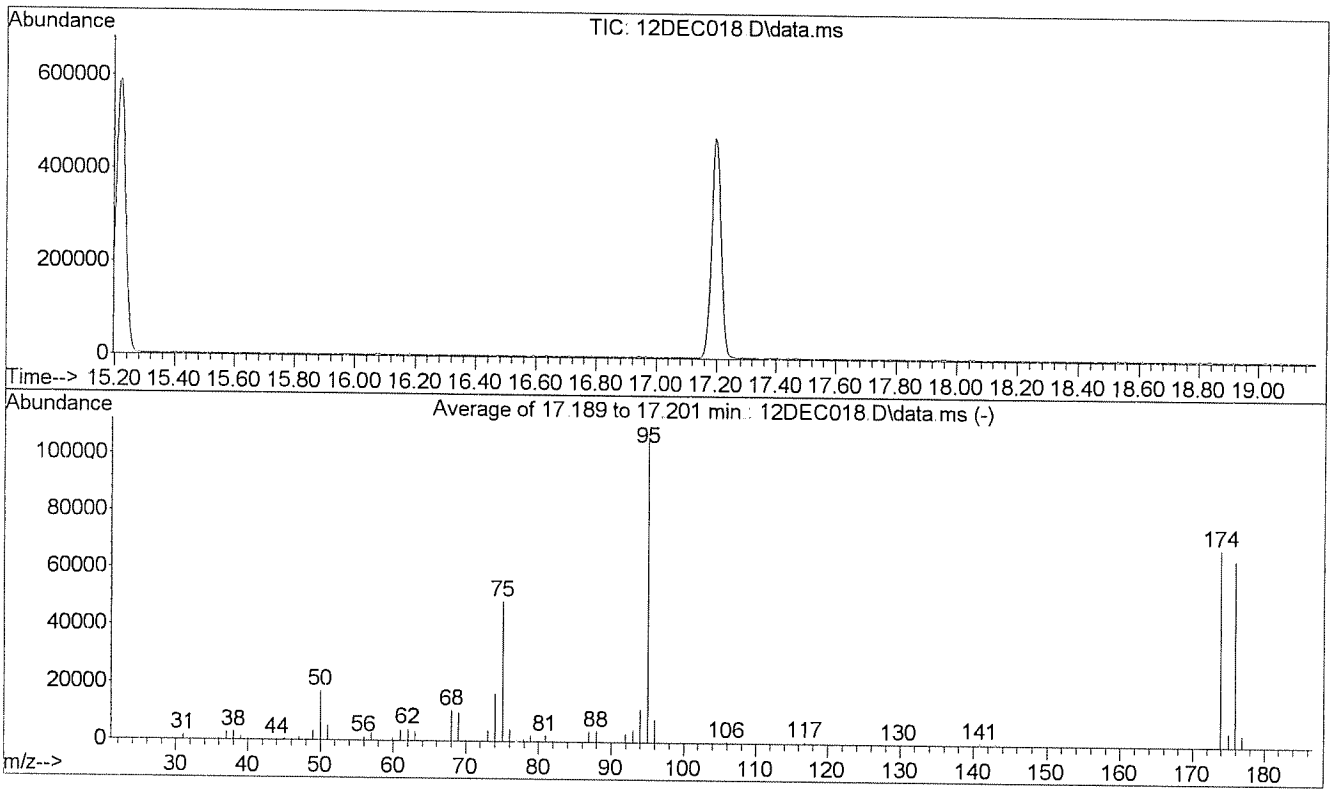
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Data Path : C:\GCMS-C\data\111212\
Data File : 12DEC018.D
Acq On : 12 Dec 2011 6:04 pm
Operator : VM
Sample : BFB
Misc : 150ML
ALS Vial : 8 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011



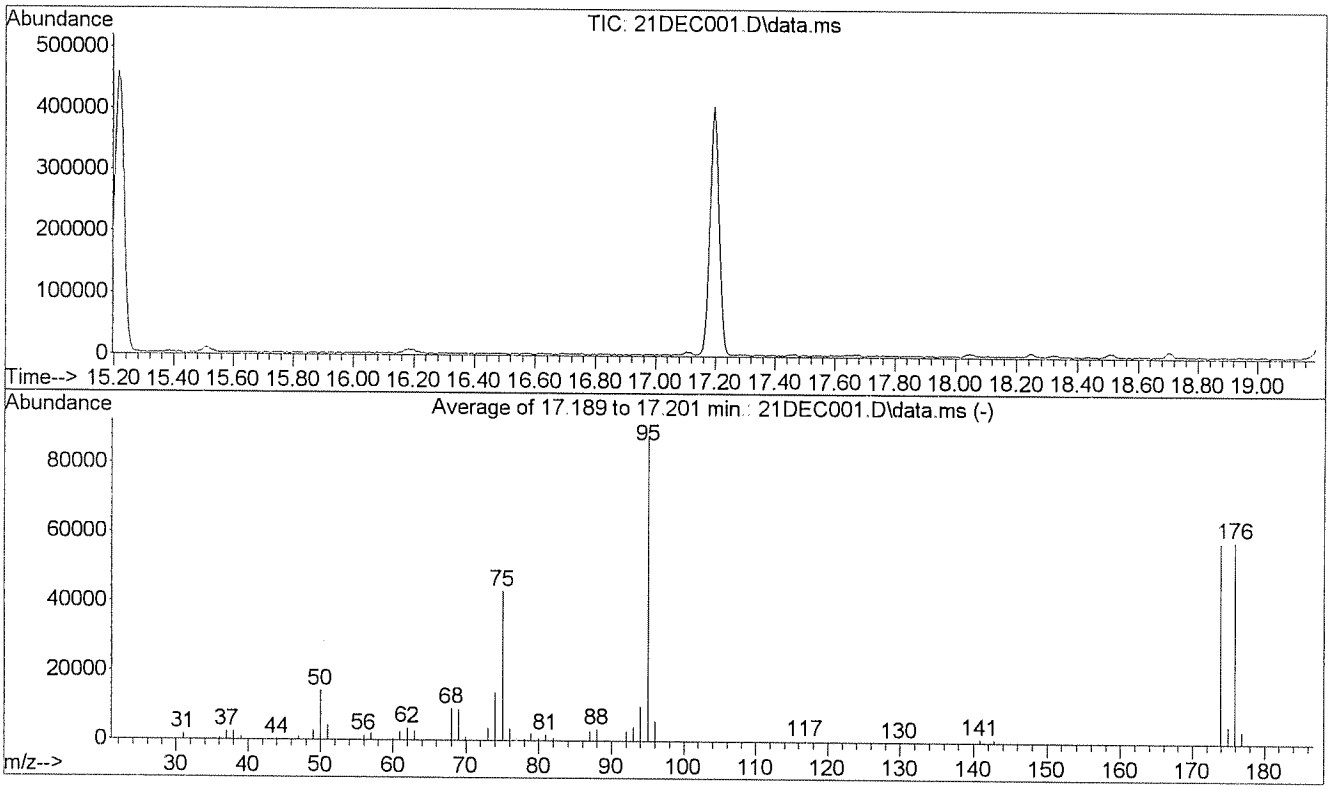
AutoFind: Scans 2239, 2240, 2241; Background Corrected with Scan 2229

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	17061	PASS
75	95	30	60	45.6	48656	PASS
95	95	100	100	100.0	106685	PASS
96	95	5	9	7.5	7995	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.6	68888	PASS
175	174	5	9	7.2	4938	PASS
176	174	93	101	94.4	65032	PASS
177	176	5	9	6.7	4348	PASS

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC001.D
Acq On : 21 Dec 2011 7:53 am
Operator : DT
Sample : BFB
Misc : 150 ML
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011



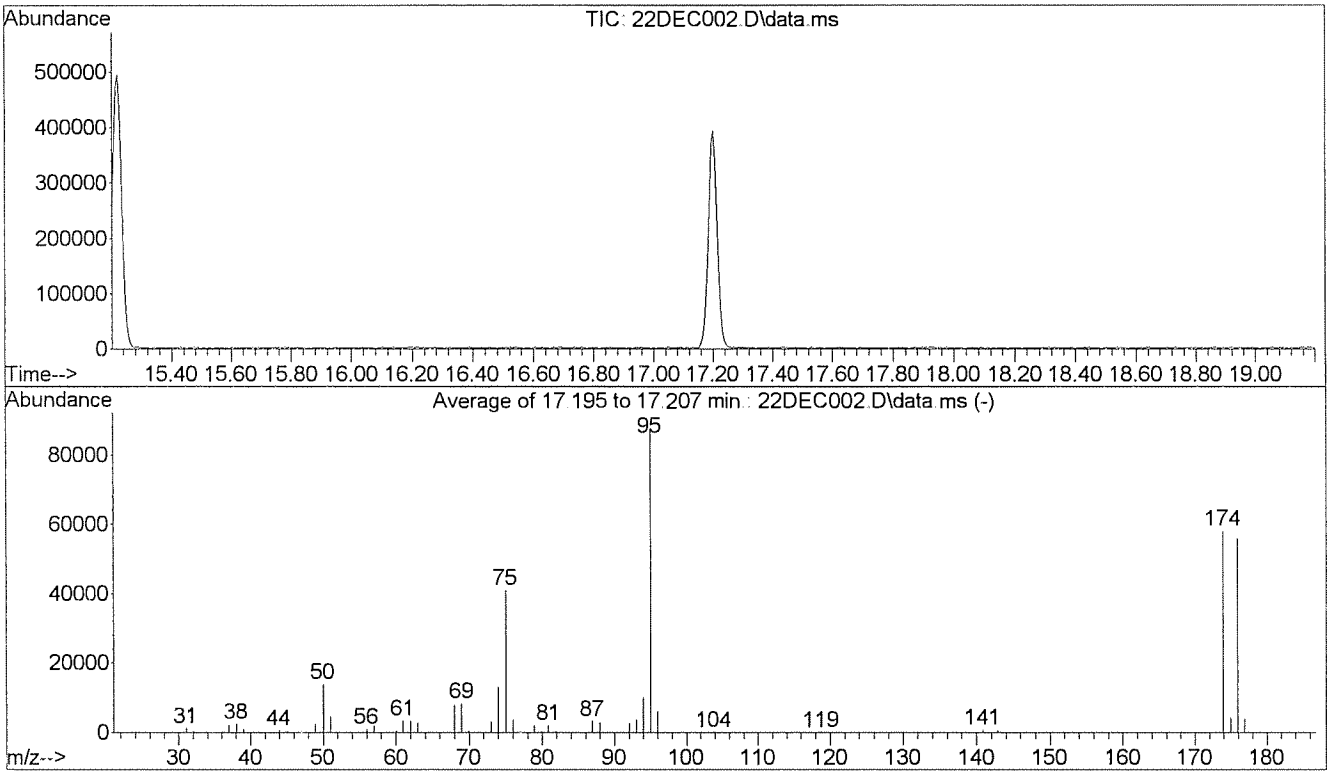
AutoFind: Scans 2239, 2240, 2241; Background Corrected with Scan 2229

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	14285	PASS
75	95	30	60	48.6	43016	PASS
95	95	100	100	100.0	88469	PASS
96	95	5	9	6.6	5848	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.5	57909	PASS
175	174	5	9	8.5	4949	PASS
176	174	93	101	100.4	58160	PASS
177	176	5	9	6.3	3636	PASS

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC002.D
Acq On : 22 Dec 2011 2:48 am
Operator : DT
Sample : BFB
Misc : 150 ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011



AutoFind: Scans 2240, 2241, 2242; Background Corrected with Scan 2232

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	13857	PASS
75	95	30	60	46.7	40933	PASS
95	95	100	100	100.0	87690	PASS
96	95	5	9	7.0	6160	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.2	58064	PASS
175	174	5	9	7.2	4193	PASS
176	174	93	101	96.0	55762	PASS
177	176	5	9	6.8	3781	PASS

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011
Response Via : Initial Calibration

Calibration Files
1 =12DEC039.D 5 =12DEC038.D 10 =12DEC022.D 25 =12DEC023.D
100 =12DEC024.D 250 =12DEC025.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluo...	7.326	7.093	7.651	6.731	5.659	2.813	6.212	28.99
3)		Chloromethane	2.676	1.889	1.935	1.746	1.622	1.052	1.820	28.92
4)		1,2-Cl-1,1,2,2...	7.128	6.817	7.362	6.642	5.644	3.192	6.131	25.39
5)		Vinyl Chloride	1.744	1.965	1.948	1.824	1.729	1.171	1.730	16.84
6)		Bromomethane	1.724	1.364	1.299	1.286	1.087	0.837	1.266	23.34
7)		Chloroethane	0.836	0.757	0.821	0.816	0.693	0.520	0.740	16.29
8)		Trichlorofluor...	7.117	6.634	7.403	5.250	6.093	3.529	6.005	23.90
9)	M	1,1-Dichloroet...	4.198	3.961	4.202	3.807	3.353	2.090	3.602	22.33
10)		Carbon Disulfide	7.269	6.847	7.206	6.683	5.626	3.265	6.149	24.91
11)		1,1,2-Cl 1,2,2...	3.652	3.442	3.717	3.388	3.129	1.987	3.219	19.84
12)		Acetone	4.809	3.781	3.391	2.938	2.587	1.667	3.196	33.59
13)	M	Methylene Chlo...	2.216	2.036	2.321	2.043	1.947	1.282	1.974	18.51
14)		t-1,2-Dichloro...	1.960	2.114	2.264	2.174	2.084	1.382	1.996	15.90
15)		1,1-Dichloroet...	4.338	4.333	4.610	4.222	3.860	2.366	3.955	20.62
16)		Vinyl Acetate	2.497	2.556	2.798	2.611	2.635	1.816	2.485	13.81
17)		c-1,2-Dichloro...	2.146	2.306	2.398	2.315	2.162	1.385	2.119	17.56
18)		2-Butanone	1.073	1.176	1.191	1.146	1.038	0.633	1.043	20.09
19)		t-Butyl Methyl...	4.074	4.567	4.633	4.335	3.771	2.608	3.998	18.82
20)	t	Chloroform	5.097	5.068	5.363	5.018	4.625	2.810	4.663	20.12
21)		1,1,1-Trichlor...	4.358	4.531	5.152	4.911	4.822	3.094	4.478	16.38
22)		1,1-Dichloropr...	2.778	2.815	3.355	3.146	2.885	1.797	2.796	19.21
23)	t	Carbon Tetrach...	1.301	2.454	3.123	3.393	3.962	2.632	2.811	32.60
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.673	1.571	1.647	1.521	1.438	1.062	1.486	15.09
26)	S	1,2-Dichloroet...	0.301	0.327	0.315	0.327	0.369	0.451	0.348	15.86
27)		1,2-Dichloroet...	0.591	0.640	0.658	0.631	0.614	0.529	0.611	7.53
28)	M	Trichloroethene	0.989	0.830	0.801	0.718	0.675	0.531	0.757	20.50
29)		1,2-Dichloropr...	0.523	0.543	0.569	0.542	0.532	0.450	0.526	7.71
30)		Bromodichlorom...	0.743	0.911	0.972	0.962	0.981	0.787	0.893	11.51
31)		Dibromomethane	0.408	0.500	0.524	0.517	0.511	0.437	0.483	9.97
32)		c-1,3-Dichloro...	0.431	0.588	0.633	0.671	0.760	0.640	0.620	17.57
33)		4-Methyl-2-Pen...	0.790	0.837	0.837	0.808	0.841	0.692	0.801	7.14
34)	S	Toluene-d8	0.777	0.779	0.750	0.798	0.800	0.857	0.794	4.50
35)	M	Toluene	1.678	1.686	1.666	1.665	1.632	1.197	1.587	12.11
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloro...	0.360	0.567	0.644	0.767	0.991	0.859	0.698	32.08
38)		1,1,2-Trichlor...	1.037	1.099	1.104	1.012	0.977	0.777	1.001	12.04
39)		1,3-Dichloropr...	1.132	1.247	1.397	1.325	1.269	1.001	1.228	11.56
40)		Tetrachloroethene	1.141	1.204	1.214	1.123	1.087	0.856	1.104	11.86
41)		2-Hexanone	0.681	0.831	0.855	0.808	0.826	0.689	0.782	9.76

Method Path : C:\GCMS-C\methods\
Method File : TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

42)		Dibromochlorom...	0.916	1.297	1.333	1.366	1.459	1.131	1.250	15.69
43)	t	1,2-Dibromoethane	1.283	1.431	1.441	1.390	1.444	1.110	1.350	9.79
44)		Chlorobenzene	2.054	2.107	1.944	1.863	1.871	1.420	1.877	13.00
45)		1,1,1,2-Tetrac...	0.593	0.765	0.865	0.849	0.906	0.757	0.789	14.22
46)	T	Ethylbenzene	2.598	2.813	2.687	2.688	2.599	1.792	2.530	14.61
47)	T	p,&m-Xylene	2.140	2.292	2.081	1.965	1.729	1.047	1.876	23.86
48)	T	o-Xylene	2.031	2.168	1.862	1.836	1.917	1.492	1.884	12.09
49)		Styrene	1.242	1.305	1.262	1.284	1.436	1.175	1.284	6.77
50)		Bromoform	0.587	0.952	0.886	0.958	1.177	0.963	0.920	20.75
51)		Isopropyl benzene	1.953	2.008	2.179	2.079	2.005	1.584	1.968	10.35
52)	M	1,1,2,2-Tetrac...	0.981	1.602	1.217	1.301	1.540	1.259	1.317	17.23
53)	S	4-Bromofluorob...	0.344	0.335	0.342	0.342	0.337	0.334	0.339	1.21
54)		Benzyl Chloride	0.993	0.657	0.428	0.426	1.218	1.157	0.813	43.88
55)		1,2,3-Trichlor...	0.487	0.563	0.584	0.546	0.562	0.495	0.539	7.31
56)		n-Propyl Benzene	2.702	2.571	2.748	2.359	2.187	1.542	2.351	19.12
57)		Bromobenzene	1.494	1.467	1.588	1.486	1.436	1.084	1.426	12.28
58)		4-Ethyl Toluene	3.523	3.649	2.888	2.456	2.324	1.700	2.757	27.12
59)	T	1,3,5-Trimethy...	3.331	3.902	3.129	2.798	2.592	1.647	2.900	26.34
60)		2-Chlorotoluene	2.367	2.298	2.303	2.123	1.955	1.383	2.072	17.83
61)		4-Chlorotoluene	2.121	1.998	2.175	1.884	1.825	1.323	1.888	16.28
62)		tert-Butylbenzene	2.329	2.624	2.581	2.427	2.296	1.683	2.323	14.63
63)		1,2,4-Trimethy...	3.231	3.930	2.961	2.683	2.563	1.623	2.832	27.07
64)		sec-Butylbenzene	3.196	3.199	3.212	2.600	2.065	1.430	2.617	28.30
65)		p-Isopropyltol...	2.289	2.732	2.857	2.465	1.911	1.317	2.262	25.27
66)		1,3-Dichlorobe...	2.059	1.883	1.339	1.158	1.239	0.947	1.438	30.36
67)		1,4-Dichlorobe...	2.141	1.958	1.422	1.161	1.246	0.940	1.478	31.99
68)		n-Butylbenzene	2.442	3.015	3.087	2.732	2.182	1.402	2.477	25.34
69)		1,2-Dichlorobe...	1.894	1.724	1.182	0.993	1.127	0.899	1.303	31.29
70)		1,2-Dibromo-3-...	0.304	0.258	0.226	0.231	0.343	0.331	0.282	17.93
71)		1,2,4-Trichlor...	0.891	1.045	0.637	0.659	1.276	0.987	0.916	26.56
72)		Hexachlorobuta...	0.880	0.930	0.561	0.515	0.717	0.564	0.695	25.58

(#) = Out of Range

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : AL111212.M
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:28:01 2011
Response Via : Initial Calibration

Calibration Files
1 =12DEC039.D 5 =12DEC038.D 10 =12DEC022.D 25 =12DEC023.D
100 =12DEC024.D 250 =12DEC025.D

		Compound	1	5	10	25	100	250	Avg		%R SD
1)	I	Bromochloromethane	----------ISTD----------								
2)		Propene	1.592	1.493	1.467	1.371	1.227	0.763	1.319		22.68
3)		isobutane	1.728	1.357	1.634	1.271	1.471	0.941	1.400		20.09
4)		1,3-Butadiene	0.774	0.965	1.032	0.980	0.959	0.689	0.900		15.08
5)		Methanol		1.151	0.607	0.538	0.419	0.264	0.596		56.48
6)		Acetaldehyde		0.948	0.756	0.657	0.524	0.326	0.642		36.52
7)		Ethanol		0.797	0.797	0.587	0.730		0.728		13.60
8)		Vinyl Bromide	1.852	1.307	2.131	1.473	1.907	0.887	1.593		28.76
9)		Isopropanol		3.147	3.068	2.876	2.662	1.763	2.703		20.64
10)		Acrolein	0.643	0.830	0.762	0.697	0.714	0.516	0.694		15.48
11)		t-Butanol	2.587	2.873	2.931	2.868	2.396	1.360	2.503		23.83
12)		Allyl Chloride	1.258	1.520	1.684	1.686	1.724	1.143	1.503		16.44
13)		Acrylonitrile	0.935	1.170	1.395	1.381	1.375	0.914	1.195		18.88
14)		t-Butyl methyl...	4.074	4.567	4.633	4.335	3.772	2.614	3.999		18.75
15)		n-Hexane	3.005	3.301	3.637	3.526	3.335	2.147	3.159		17.12
16)		Isopropyl ether	4.794	5.059	5.713	5.417	5.045	2.974	4.834		19.99
17)		t-Butyl ethyl ...	1.174	1.564	1.510	1.697	1.717	1.328	1.498		14.19
18)		Ethyl Acetate		0.395	0.479	0.521	0.507	0.340	0.448		17.36
19)		2,2-Dichloropr...	0.490	0.743	0.937	1.116	1.455	1.260	1.000		35.18
20)		Tetrahydrofuran	1.031	1.077	1.143	1.102	1.061	0.728	1.024		14.64
21)		Cyclohexane	2.867	3.165	3.627	3.439	3.261	2.059	3.070		18.16
22)		2,2,4-Trimethy...	0.870	0.899	1.051	0.986	0.880	0.496	0.864	E1	22.37
23)	I	1,4-Difluorobenzene	----------ISTD----------								
24)	S	1,2-Dichloroet...	0.301	0.326	0.315	0.329	0.369	0.449	0.348		15.57
25)		t-Amyl methyl ...	0.541	0.630	0.596	0.676	0.745	0.775	0.660		13.54
26)		Heptane	0.349	0.413	0.430	0.433	0.452	0.402	0.413		8.72
27)		1,4-Dioxane	0.343	0.368	0.380	0.373	0.400	0.340	0.367		6.24
28)		2-chloroethylv...					0.001	0.001	0.001		11.84
29)	S	Toluene-d8	0.777	0.779	0.750	0.798	0.800	0.857	0.794		4.50
30)		Chlorobenzene-d5	----------ISTD----------								
31)		Cyclohexanone	0.467	0.628	0.773	0.768	0.786	0.655	0.679		18.19
32)	S	4-Bromofluorob...	0.344	0.336	0.342	0.342	0.337	0.336	0.339		1.04
33)		Dicyclopentadiene		0.009	0.015	0.013	0.012	0.011	0.012		18.24
34)		Naphthalene	1.793	2.449	1.427	1.575	3.074	1.990	2.051		29.98
35)		1,2,3-Trichlor...	0.891	1.046	0.637	0.658	1.278	0.993	0.917		26.64

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC002.D
Acq On : 21 Dec 2011 9:22 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:48:26 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	92	-0.02
2		Dichlorodifluoromethane (12	6.212	6.968	-12.2	84	0.00
3		Chloromethane	1.820	1.764	3.1	84	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.131	6.778	-10.6	85	-0.01
5		Vinyl Chloride	1.730	1.884	-8.9	89	0.00
6		Bromomethane	1.266	1.345	-6.2	95	-0.01
7		Chloroethane	0.740	0.807	-9.1	91	-0.02
8		Trichlorofluoromethane (11)	6.005	5.604	6.7	70	-0.02
9	M	1,1-Dichloroethene	3.602	3.922	-8.9	86	-0.02
10		Carbon Disulfide	6.149	6.813	-10.8	87	-0.02
11		1,1,2-Cl 1,2,2-F ethane (11	3.219	3.472	-7.9	86	-0.02
12		Acetone	3.196	3.112	2.6	85	-0.03
13	M	Methylene Chloride	1.974	2.079	-5.3	82	-0.02
14		t-1,2-Dichloroethene	1.996	2.130	-6.7	87	-0.02
15		1,1-Dichloroethane	3.955	4.162	-5.2	83	-0.02
16		Vinyl Acetate	2.485	2.486	-0.0	82	-0.02
17		c-1,2-Dichloroethene	2.119	2.254	-6.4	87	-0.02
18		2-Butanone	1.043	1.125	-7.9	87	-0.02
19		t-Butyl Methyl Ether	3.998	4.330	-8.3	86	-0.02
20	t	Chloroform	4.663	5.086	-9.1	87	-0.02
21		1,1,1-Trichloroethane	4.478	4.915	-9.8	88	-0.01
22		1,1-Dichloropropene	2.796	3.226	-15.4	89	-0.02
23	t	Carbon Tetrachloride	2.811	3.022	-7.5	89	-0.01
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	-0.01
25	T	Benzene	1.486	1.525	-2.6	86	-0.02
26	S	1,2-Dichloroethane-d4	0.348	0.310	10.9	92	-0.02
27		1,2-Dichloroethane	0.611	0.615	-0.7	87	-0.01
28	M	Trichloroethene	0.757	0.750	0.9	87	-0.01
29		1,2-Dichloropropane	0.526	0.523	0.6	85	-0.01
30		Bromodichloromethane	0.893	0.946	-5.9	90	-0.01
31		Dibromomethane	0.483	0.496	-2.7	88	-0.01
32		c-1,3-Dichloropropene	0.620	0.575	7.3	85	-0.01
33		4-Methyl-2-Pentanone	0.801	0.765	4.5	85	0.00
34	S	Toluene-d8	0.794	0.777	2.1	96	-0.01
35	M	Toluene	1.587	1.622	-2.2	91	-0.01
36	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC002.D
Acq On : 21 Dec 2011 9:22 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:48:26 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37		t-1,3-Dichloropropene	0.698	0.623	10.7	89	0.00
38		1,1,2-Trichloroethane	1.001	1.020	-1.9	85	0.00
39		1,3-Dichloropropane	1.228	1.310	-6.7	87	0.00
40		Tetrachloroethene	1.104	1.130	-2.4	86	0.00
41		2-Hexanone	0.782	0.776	0.8	84	-0.01
42		Dibromochloromethane	1.250	1.287	-3.0	89	0.00
43	t	1,2-Dibromoethane	1.350	1.384	-2.5	89	0.00
44		Chlorobenzene	1.877	1.873	0.2	89	0.00
45		1,1,1,2-Tetrachloroethane	0.789	0.815	-3.3	87	0.00
46	T	Ethylbenzene	2.530	2.474	2.2	85	0.00
47	T	p,&m-Xylene	1.876	1.961	-4.5	87	0.00
48	T	o-Xylene	1.884	1.768	6.2	88	0.00
49		Styrene	1.284	1.177	8.3	86	0.00
50		Bromoform	0.920	0.837	9.0	87	0.00
51		Isopropyl benzene	1.968	2.032	-3.3	86	0.00
52	M	1,1,2,2-Tetrachloroethane	1.317	1.220	7.4	93	0.00
53	S	4-Bromofluorobenzene	0.339	0.298	12.1	80	0.00
54		Benzyl Chloride	0.813	0.407	49.9#	88	0.00
55		1,2,3-Trichloropropane	0.539	0.555	-3.0	88	0.00
56		n-Propyl Benzene	2.351	2.676	-13.8	90	0.00
57		Bromobenzene	1.426	1.489	-4.4	87	0.00
58		4-Ethyl Toluene	2.757	2.719	1.4	87	0.00
59	T	1,3,5-Trimethylbenzene	2.900	2.947	-1.6	87	0.00
60		2-Chlorotoluene	2.072	2.289	-10.5	92	0.00
61		4-Chlorotoluene	1.888	2.062	-9.2	88	0.00
62		tert-Butylbenzene	2.323	2.530	-8.9	90	0.00
63		1,2,4-Trimethylbenzene	2.832	2.976	-5.1	93	0.00
64		sec-Butylbenzene	2.617	3.222	-23.1	93	0.00
65		p-Isopropyltoluene	2.262	2.842	-25.6	92	0.00
66		1,3-Dichlorobenzene	1.438	1.321	8.1	91	0.00
67		1,4-Dichlorobenzene	1.478	1.355	8.3	88	0.00
68		n-Butylbenzene	2.477	2.989	-20.7	89	0.00
69		1,2-Dichlorobenzene	1.303	1.160	11.0	91	0.00
70		1,2-Dibromo-3-chloropropane	0.282	0.228	19.1	93	0.00
71		1,2,4-Trichlorobenzene	0.916	0.606	33.8#	88	0.00
72		Hexachlorobutadiene	0.695	0.557	19.9	92	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC002.D
Acq On : 21 Dec 2011 9:22 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:48:26 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC002.D
Acq On : 21 Dec 2011 9:22 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 09:54:21 2011
Quant Method : C:\GCMS-C\methods\AL111212.M
Quant Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 17:20:27 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	92	0.00
2		Propene	1.319	1.377	-4.4	86	-0.03
3		isobutane	1.400	1.449	-3.5	82	-0.02
4		1,3-Butadiene	0.900	1.009	-12.1	90	-0.03
5		Methanol	0.596	0.901	-51.2#	137	-0.04
6		Acetaldehyde	0.642	0.741	-15.4	90	-0.06
7		Ethanol	0.728	0.879	-20.7	102	-0.02
8		Vinyl Bromide	1.593	1.448	9.1	63	-0.02
9		Isopropanol	2.703	2.973	-10.0	89	-0.01
10		Acrolein	0.694	0.695	-0.1	84	-0.02
11		t-Butanol	2.503	2.738	-9.4	86	-0.04
12		Allyl Chloride	1.503	1.556	-3.5	85	-0.02
13		Acrylonitrile	1.195	1.318	-10.3	87	-0.02
14		t-Butyl methyl ether	3.999	4.330	-8.3	86	-0.02
15		n-Hexane	3.159	3.358	-6.3	85	-0.01
16		Isopropyl ether	4.834	5.184	-7.2	84	-0.02
17		t-Butyl ethyl ether	1.498	1.351	9.8	82	-0.01
18		Ethyl Acetate	0.448	0.403	10.0	78	0.00
19		2,2-Dichloropropane	1.000	0.831	16.9	82	0.00
20		Tetrahydrofuran	1.024	1.050	-2.5	85	-0.01
21		Cyclohexane	3.070	3.280	-6.8	83	0.00
22		2,2,4-Trimethylpentane	8.636	9.782	-13.3	86	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
24	S	1,2-Dichloroethane-d4	0.348	0.310	10.9	92	0.00
25		t-Amyl methyl ether	0.660	0.529	19.8	83	-0.01
26		Heptane	0.413	0.398	3.6	86	-0.02
27		1,4-Dioxane	0.367	0.343	6.5	84	-0.01
28		2-chloroethylvinylether	0.001	0.000	100.0#	0#	-11.72#
29	S	Toluene-d8	0.794	0.777	2.1	96	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
31		Cyclohexanone	0.679	0.688	-1.3	82	0.00
32	S	4-Bromofluorobenzene	0.339	0.298	12.1	80	0.00
33		Dicyclopentadiene	0.012	0.016	-33.3#	101	-0.02
34		Naphthalene	2.051	1.347	34.3#	87	0.00
35		1,2,3-Trichlorobenzene	0.917	0.606	33.9#	88	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 21DEC002.D
Acq On : 21 Dec 2011 9:22 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 09:54:21 2011
Quant Method : C:\GCMS-C\methods\AL111212.M
Quant Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 17:20:27 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC003.D
Acq On : 22 Dec 2011 3:26 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 03:52:23 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	83	-0.02
2		Dichlorodifluoromethane (12	6.212	7.118	-14.6	78	0.00
3		Chloromethane	1.820	1.825	-0.3	79	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.131	6.782	-10.6	77	0.00
5		Vinyl Chloride	1.730	1.898	-9.7	81	0.00
6		Bromomethane	1.266	1.290	-1.9	83	0.00
7		Chloroethane	0.740	0.820	-10.8	83	0.00
8		Trichlorofluoromethane (11)	6.005	7.116	-18.5	80	-0.01
9	M	1,1-Dichloroethene	3.602	4.135	-14.8	82	-0.01
10		Carbon Disulfide	6.149	6.671	-8.5	77	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	3.219	3.588	-11.5	80	-0.01
12		Acetone	3.196	3.280	-2.6	81	-0.01
13	M	Methylene Chloride	1.974	2.106	-6.7	76	0.00
14		t-1,2-Dichloroethene	1.996	2.067	-3.6	76	0.00
15		1,1-Dichloroethane	3.955	4.255	-7.6	77	-0.01
16		Vinyl Acetate	2.485	2.568	-3.3	77	-0.01
17		c-1,2-Dichloroethene	2.119	2.202	-3.9	77	-0.01
18		2-Butanone	1.043	1.029	1.3	72	-0.01
19		t-Butyl Methyl Ether	3.998	3.450	13.7	62	-0.01
20	t	Chloroform	4.663	5.062	-8.6	79	-0.01
21		1,1,1-Trichloroethane	4.478	4.541	-1.4	73	0.00
22		1,1-Dichloropropene	2.796	3.107	-11.1	77	0.00
23	t	Carbon Tetrachloride	2.811	2.835	-0.9	76	-0.01
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	-0.01
25	T	Benzene	1.486	1.481	0.3	75	-0.01
26	S	1,2-Dichloroethane-d4	0.348	0.329	5.5	87	-0.02
27		1,2-Dichloroethane	0.611	0.620	-1.5	79	-0.01
28	M	Trichloroethene	0.757	0.770	-1.7	80	0.00
29		1,2-Dichloropropane	0.526	0.510	3.0	75	0.00
30		Bromodichloromethane	0.893	0.908	-1.7	78	0.00
31		Dibromomethane	0.483	0.485	-0.4	77	-0.01
32		c-1,3-Dichloropropene	0.620	0.527	15.0	70	0.00
33		4-Methyl-2-Pentanone	0.801	0.766	4.4	77	0.00
34	S	Toluene-d8	0.794	0.779	1.9	87	-0.01
35	M	Toluene	1.587	1.591	-0.3	80	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC003.D
Acq On : 22 Dec 2011 3:26 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 03:52:23 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37		t-1,3-Dichloropropene	0.698	0.507	27.4	68	0.00
38		1,1,2-Trichloroethane	1.001	0.984	1.7	77	0.00
39		1,3-Dichloropropane	1.228	1.235	-0.6	76	0.00
40		Tetrachloroethene	1.104	1.124	-1.8	80	0.00
41		2-Hexanone	0.782	0.734	6.1	74	0.00
42		Dibromochloromethane	1.250	1.219	2.5	79	0.00
43	t	1,2-Dibromoethane	1.350	1.248	7.6	75	0.00
44		Chlorobenzene	1.877	1.801	4.0	80	0.00
45		1,1,1,2-Tetrachloroethane	0.789	0.793	-0.5	79	0.00
46	T	Ethylbenzene	2.530	2.398	5.2	77	0.00
47	T	p,&m-Xylene	1.876	1.842	1.8	76	0.00
48	T	o-Xylene	1.884	1.629	13.5	75	0.00
49		Styrene	1.284	1.082	15.7	74	0.00
50		Bromoform	0.920	0.797	13.4	77	0.00
51		Isopropyl benzene	1.968	1.930	1.9	76	0.00
52	M	1,1,2,2-Tetrachloroethane	1.317	1.045	20.7	74	0.00
53	S	4-Bromofluorobenzene	0.339	0.336	0.9	85	0.00
54		Benzyl Chloride	0.813	0.317	61.0#	64	0.00
55		1,2,3-Trichloropropane	0.539	0.534	0.9	79	0.00
56		n-Propyl Benzene	2.351	2.332	0.8	73	0.00
57		Bromobenzene	1.426	1.439	-0.9	78	0.00
58		4-Ethyl Toluene	2.757	2.644	4.1	79	0.00
59	T	1,3,5-Trimethylbenzene	2.900	2.777	4.2	76	0.00
60		2-Chlorotoluene	2.072	2.126	-2.6	80	0.00
61		4-Chlorotoluene	1.888	1.866	1.2	74	0.00
62		tert-Butylbenzene	2.323	2.334	-0.5	78	0.00
63		1,2,4-Trimethylbenzene	2.832	2.864	-1.1	83	0.00
64		sec-Butylbenzene	2.617	2.805	-7.2	75	0.00
65		p-Isopropyltoluene	2.262	2.650	-17.2	80	0.00
66		1,3-Dichlorobenzene	1.438	1.210	15.9	78	0.00
67		1,4-Dichlorobenzene	1.478	1.224	17.2	74	0.00
68		n-Butylbenzene	2.477	2.830	-14.3	79	0.00
69		1,2-Dichlorobenzene	1.303	1.048	19.6	76	0.00
70		1,2-Dibromo-3-chloropropane	0.282	0.197	30.1#	75	0.00
71		1,2,4-Trichlorobenzene	0.916	0.591	35.5#	80	0.00
72		Hexachlorobutadiene	0.695	0.533	23.3	82	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC003.D
Acq On : 22 Dec 2011 3:26 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 03:52:23 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC003.D
Acq On : 22 Dec 2011 3:26 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 15:40:04 2011
Quant Method : C:\GCMS-C\methods\AL111212.M
Quant Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 17:20:27 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	83	0.00
2		Propene	1.319	1.335	-1.2	76	-0.02
3		isobutane	1.400	2.054	-46.7#	105	-0.01
4		1,3-Butadiene	0.900	1.003	-11.4	81	-0.02
5		Methanol	0.596	0.761	-27.7	104	-0.02
6		Acetaldehyde	0.642	0.740	-15.3	82	-0.03
7		Ethanol	0.728	0.755	-3.7	79	-0.01
8		Vinyl Bromide	1.593	1.641	-3.0	64	-0.01
9		Isopropanol	2.703	2.761	-2.1	75	0.00
10		Acrolein	0.694	0.677	2.4	74	-0.02
11		t-Butanol	2.503	2.428	3.0	69	-0.03
12		Allyl Chloride	1.503	1.488	1.0	74	0.00
13		Acrylonitrile	1.195	1.277	-6.9	76	-0.01
14		t-Butyl methyl ether	3.999	3.449	13.8	62	-0.01
15		n-Hexane	3.159	3.305	-4.6	76	0.00
16		Isopropyl ether	4.834	5.100	-5.5	74	0.00
17		t-Butyl ethyl ether	1.498	1.001	33.2#	55	0.00
18		Ethyl Acetate	0.448	0.337	24.8	59	0.00
19		2,2-Dichloropropane	1.000	0.532	46.8#	47#	0.00
20		Tetrahydrofuran	1.024	1.003	2.1	73	0.00
21		Cyclohexane	3.070	3.174	-3.4	73	0.00
22		2,2,4-Trimethylpentane	8.636	9.708	-12.4	77	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
24	S	1,2-Dichloroethane-d4	0.348	0.329	5.5	87	0.00
25		t-Amyl methyl ether	0.660	0.388	41.2#	54	0.00
26		Heptane	0.413	0.414	-0.2	80	0.00
27		1,4-Dioxane	0.367	0.329	10.4	73	0.00
28		2-chloroethylvinylether	0.001	0.000	100.0#	0#	-11.72#
29	S	Toluene-d8	0.794	0.778	2.0	87	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
31		Cyclohexanone	0.679	0.646	4.9	72	0.00
32	S	4-Bromofluorobenzene	0.339	0.336	0.9	85	0.00
33		Dicyclopentadiene	0.012	0.008	33.3#	46#	0.00
34		Naphthalene	2.051	1.289	37.2#	78	0.00
35		1,2,3-Trichlorobenzene	0.917	0.591	35.6#	80	0.00

GC/MS QA-QC Check Report

Tune File : C:\GCMS-C\data\111219\21DEC001.D
Tune Time : 21 Dec 2011 7:53 am

Daily Calibration File : C:\GCMS-C\data\111219\21DEC002.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					48098	237598	146507
21DEC005.D							
	LCS	93	94	95	49760	244234	147075
21DEC006.D							
	LCSD	93	98	96	48874	240535	150789
21DEC007.D							
	METHOD BLA	102	99	108	49386	226631	146744
21DEC014.D							
	C121507-01	93	99	100	45339	223432	149702
21DEC016.D							
	C121507-03	96	98	98	45185	216837	134501

(fails) - fails 24hr time check * - fails criteria

Created: Fri Dec 30 15:16:04 2011 Instrument #1

GC/MS QA-QC Check Report

Tune File : C:\GCMS-C\data\111219\22DEC002.D
Tune Time : 22 Dec 2011 2:48 am

Daily Calibration File : C:\GCMS-C\data\111219\22DEC003.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					43526	213609	136679
22DEC004.D							
	LCS	98	99	96	45232	222451	145047
22DEC005.D							
	LCSD	96	100	99	45319	221569	139791
22DEC006.D							
	METHOD BLA	111	98	109	46207	200037	130049
22DEC007.D							
	C121507-02	102	100	90	40927	188446	141707

(fails) - fails 24hr time check * - fails criteria

Created: Fri Dec 30 15:19:54 2011 Instrument #1

ISVE Laboratory Reports

AirTECHNOLOGY
Laboratories, Inc.

October 21, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Ken Hewlett
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – ISVE System; E-742
Lab Number: C101004-01/03

Enclosed are results for sample(s) received 10/10/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 1 OF 1
Standard ■	48 hours ☐	EDD ■	Condition upon receipt:
Same Day ☐	72 hours ☐	EDF ☐	Sealed Yes ☐ No ☐
24 hours ☐	96 hours ☐	Level 3 ☐	Intact Yes ☐ No ☐
Other:		Level 4 ☐	Chilled _____ deg C

Project No.:	E742
Project Name:	Omega - ISVE System
Report To:	Ken Hewlett
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	khewlett@demaximis.com

BILLING

P.O. No.:
Bill to: de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	TO-15 (TAL 2.3)					
C101004-01	OC_SVE_EFF_GAC_101011	10/10/2011	1220	Summa	Air	No/C	X					
-02	OC_SVE_MID_GAC_101011	10/10/2011	1405	Summa	Air	No/C	X					
-03	OC_SVE_INF_GAC_101011	10/10/2011	1210	Summa	Air	No/C	X					

AUTHORIZATION TO PERFORM WORK	COMPANY	DATE/TIME
Carlton Hamm Jr.	JHA	10/10/11 1620
SAMPLED BY	**COMPANY**	**DATE/TIME**
Carlton Hamm Jr.	JHA	10/10/11 1620

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	10/10/11 1620	DON TONGSON	10/10/11 1620

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101004-01			C101004-02			C101004-03		
Client Sample I.D.:	OC_SVE_EFF_GAC_1010 11			OC_SVE_MID_GAC_1010 11			OC_SVE_INF_GAC_1010 11		
Date Sampled:	10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/18/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111018MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	1.7			2.5			42		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	1.1 J	1.7	0.083	1.0 J	2.5	0.12	5.1 J	42	2.0
Vinyl Chloride	ND	1.7	0.39	ND	2.5	0.55	ND	42	9.3
Trichlorofluoromethane (11)	18	1.7	0.71	37	2.5	1.0	34 J	42	17
1,1-Dichloroethene	41	1.7	0.19	410	2.5	0.27	270	42	4.5
Carbon Disulfide	1.5 J	8.7	0.26	ND	12	0.37	ND	210	6.3
1,1,2-Cl 1,2,2-F ethane (113)	17	1.7	0.40	67	2.5	0.57	240	42	9.7
Methylene Chloride	8.2	1.7	0.34	7.6	2.5	0.49	14 J	42	8.2
1,1-Dichloroethane	0.24 J	1.7	0.21	3.1	2.5	0.30	26 J	42	5.0
2-Butanone	2.3	1.7	0.44	ND	2.5	0.63	ND	42	11
Chloroform	0.59 J	1.7	0.24	11	2.5	0.35	110	42	5.9
1,1,1-Trichloroethane	ND	1.7	0.20	7.7	2.5	0.28	44	42	4.8
Carbon Tetrachloride	ND	1.7	0.20	ND	2.5	0.29	11 J	42	4.8
Benzene	0.46 J	1.7	0.34	ND	2.5	0.49	11 J	42	8.3
1,2-Dichloroethane	ND	1.7	0.46	4.4	2.5	0.65	46	42	11
Trichloroethene	ND	1.7	0.27	2.5	2.5	0.39	170	42	6.5
Toluene	1.1 J	1.7	0.22	ND	2.5	0.32	32 J	42	5.4
1,1,2-Trichloroethane	ND	1.7	0.36	ND	2.5	0.51	ND	42	8.6
Tetrachloroethene	ND	1.7	0.20	ND	2.5	0.28	6,500	42	4.7
o-Xylene	ND	1.7	0.24	ND	2.5	0.34	9.8 J	42	5.8
Isopropanol	ND	8.7	1.2	ND	12	1.7	ND	210	29
n-Hexane	ND	8.7	0.44	ND	12	0.63	ND	210	11
1,4-Dioxane	ND	8.7	1.1	ND	12	1.6	ND	210	28
Total VOC's	91			550			7,500		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	101%	70-130%	103%	70-130%	105%	70-130%
Toluene-d8	90%	70-130%	85%	70-130%	94%	70-130%
4-Bromofluorobenzene	93%	70-130%	89%	70-130%	118%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: _____ Date 10/21/11
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101004-01			C101004-02			C101004-03		
Client Sample I.D.:	OC_SVE_EFF_GAC_1010 11			OC_SVE_MID_GAC_1010 11			OC_SVE_INF_GAC_1010 11		
Date Sampled:	10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/18/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111018MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	1.7			2.5			42		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	5.4 J	8.6	0.41	4.9 J	12	0.58	25 J	210	9.9
Vinyl Chloride	ND	4.5	0.99	ND	6.4	1.4	ND	110	24
Trichlorofluoromethane (11)	100	9.8	4.0	210	14	5.7	190 J	240	97
1,1-Dichloroethene	160	6.9	0.75	1,600	9.9	1.1	1,100	170	18
Carbon Disulfide	4.6 J	27	0.81	ND	39	1.2	ND	660	19
1,1,2-Cl 1,2,2-F ethane (113)	130	13	3.1	510	19	4.4	1,800	320	74
Methylene Chloride	29	6.1	1.2	26	8.6	1.7	50 J	150	29
1,1-Dichloroethane	0.98 J	7.1	0.84	12	10	1.2	110 J	170	20
2-Butanone	6.8	5.1	1.3	ND	7.3	1.9	ND	120	32
Chloroform	2.9 J	8.5	1.2	55	12	1.7	540	210	29
1,1,1-Trichloroethane	ND	9.5	1.1	42	14	1.5	240	230	26
Carbon Tetrachloride	ND	11	1.3	ND	16	1.8	71 J	270	30
Benzene	1.5 J	5.6	1.1	ND	8.0	1.6	36 J	130	26
1,2-Dichloroethane	ND	7.1	1.9	18	10	2.6	190	170	45
Trichloroethene	ND	9.4	1.5	14	13	2.1	920	230	35
Toluene	4.1 J	6.6	0.84	ND	9.4	1.2	120 J	160	20
1,1,2-Trichloroethane	ND	9.5	1.9	ND	14	2.8	ND	230	47
Tetrachloroethene	ND	12	1.3	ND	17	1.9	44,000	290	32
o-Xylene	ND	7.6	1.0	ND	11	1.5	43 J	180	25
Isopropanol	ND	21	2.9	ND	31	4.2	ND	520	71
n-Hexane	ND	31	1.5	ND	44	2.2	ND	740	37
1,4-Dioxane	ND	31	4.1	ND	45	5.9	ND	760	99
Total VOC's	450			2,500			49,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	101%	70-130%	103%	70-130%	105%	70-130%
Toluene-d8	90%	70-130%	85%	70-130%	94%	70-130%
4-Bromofluorobenzene	93%	70-130%	89%	70-130%	118%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 10/21/11

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111014MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	10/14/11		10/14/11		10/14/11						
Data File ID:	14OCT007.D		14OCT005.D		14OCT006.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.9	89	9.0	90	0.5	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.9	89	8.8	88	2.0	70	130	30	Pass
Trichloroethene	0.0	10.0	8.0	80	7.8	78	2.0	70	130	30	Pass
Toluene	0.0	10.0	8.2	82	7.9	79	3.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.8	88	8.8	88	0.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 10/21/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111018MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	10/18/11		10/19/11		10/19/11						
Data File ID:	18OCT006.D		19OCT004.D		19OCT005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.4	84	8.7	87	4.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.6	86	8.6	86	0.2	70	130	30	Pass
Trichloroethene	0.0	10.0	8.0	80	8.2	82	1.6	70	130	30	Pass
Toluene	0.0	10.0	8.1	81	8.3	83	2.0	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.2	82	8.4	84	2.4	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 11/21/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111010\14OCT002.D
Tune Time : 14 Oct 2011 5:24

Daily Calibration File : D:\GCMSB\111010\14OCT003.D

					Daily cali. I.S. response		
					55352	242387	154788
File	Sample	Surrogate Recovery %			Internal Standard Responses		
14OCT004	TO15 LCS	98	90	100	55378	234781	149756
14OCT005	TO15 LCSD	98	88	100	55577	237457	146870
14OCT006	METHOD BLANK	109	93	73	49695	190324	133486
14OCT010	C101004-01 d	101	90	93	54170	224449	153938
14OCT011	C101004-02 d	103	85	89	51085	211135	134987
14OCT013	C101005-01 d	109	85	86	50428	194660	128849
14OCT014	C101005-02 d	106	103	80	48818	199327	128436
14OCT015	C101005-03 d	104	78	92	48589	199054	123703
14OCT016	C101005-04 d	104	98	84	46461	185782	122627
14OCT017	C101005-05 d	112	87	87	47703	172091	125168
14OCT018	C101005-06 d	110	91	93	45307	164952	110607
14OCT019	C101005-07 d	113	92	109	41335	153711	117945
14OCT020	C101005-08 d	114	98	85	39499	142258	102275
14OCT021	C101005-09 d	111	87	89	38273	145120	95596
14OCT022	C101005-10 d	114	111	85	37118	138204	97800

surrogate recovery limits 70-130%
Internal standard response limits 60-140%

t - fails 24hr time check * - fails criteria
Created:Thu Oct 20 14:49:59 2011

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111017\18OCT001.D
Tune Time : 18 Oct 2011 8:35

Daily Calibration File : D:\GCMSB\111017\18OCT002.D

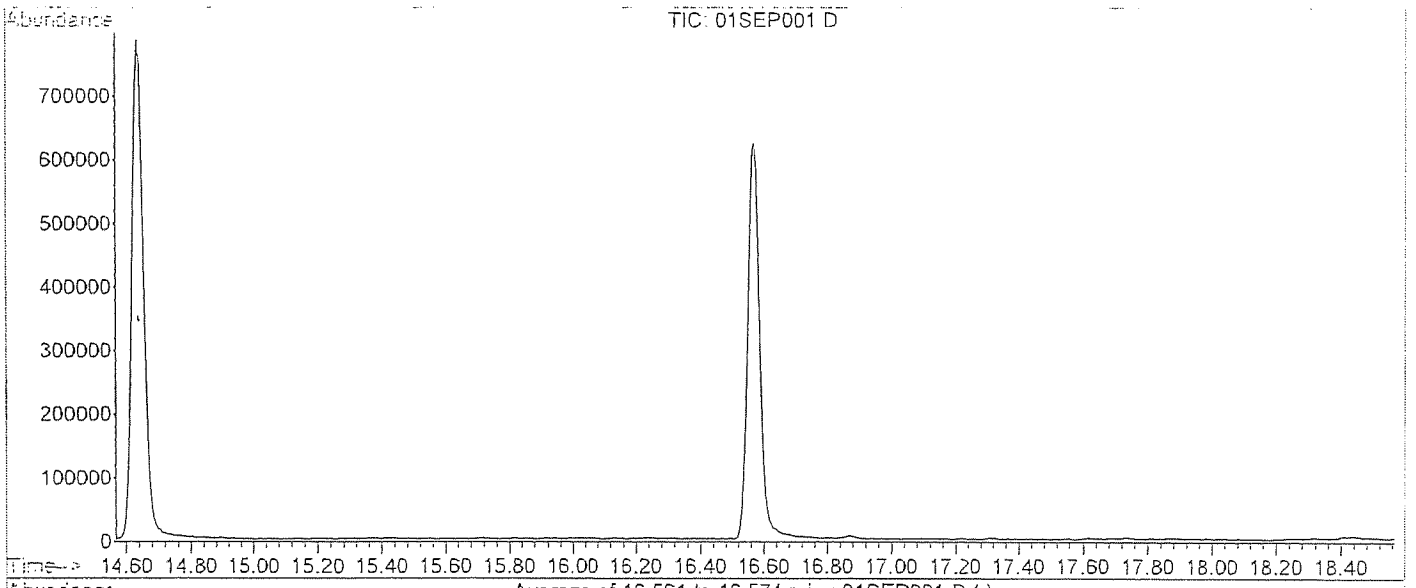
					Daily cali. I.S. response		
					45004	228569	156500
File	Sample	Surrogate Recovery %			Internal Standard Responses		
18OCT004	TO15 LCS	95	92	108	45255	191147	136946
18OCT005	TO15 LCSD	96	91	110	42827	188696	126879
18OCT006	METHOD BLANK	104	88	93	40109	157827	106310
18OCT007	C101004-03 d	105	94	118	38099	155173	119270
18OCT008	C101005-07 d	109	91	99	47825	169555	153650

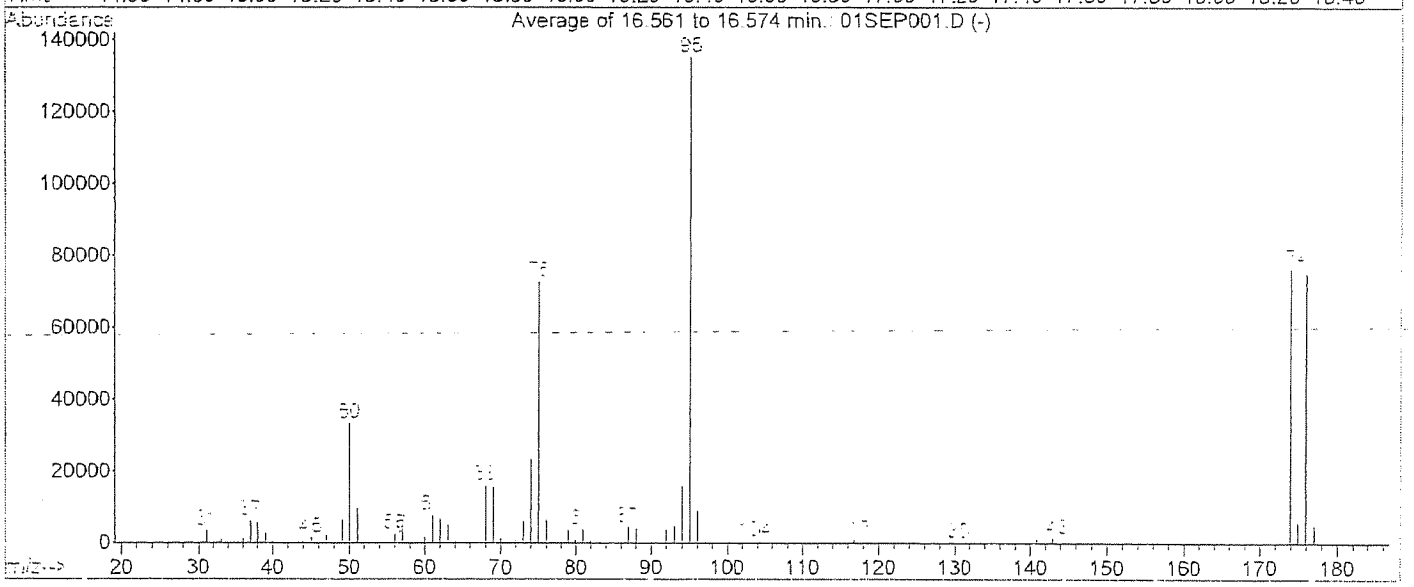
surrogate recovery limits 70-130%
Internal standard response limits 60-40%
t - fails 24hr time check * - fails criteria
Created:Thu Oct 20 14:47:17 2011

BFB

Data File : D:\GCMSB\110829\01SEP001.D
Acq On : 31 Aug 2011 23:06
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 4
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	33312	PASS
75	95	30	60	53.8	72664	PASS
95	95	100	100	100.0	135107	PASS
96	95	5	9	6.6	8964	PASS
173	174	0.00	2	0.4	311	PASS
174	95	50	100	56.6	76413	PASS
175	174	5	9	7.6	5792	PASS
176	174	95	101	98.3	75117	PASS
177	176	5	9	6.6	4934	PASS

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	7.505	7.130	6.709	6.545	6.058	4.048	6.332	19.33
3)		Chloromethane	2.738	2.615	2.562	2.516	2.468	1.745	2.441	14.47
4)		1,2-Cl-1,1,2,2-F et	6.700	6.378	6.054	5.933	5.629	3.916	5.768	16.98
5)		Vinyl Chloride	2.578	2.501	2.453	2.441	2.466	1.735	2.362	13.18
6)		Bromomethane	1.355	1.051	1.046	0.976	1.019	0.731	1.030	19.35
7)		Chloroethane	1.378	1.158	1.044	0.984	0.963	0.681	1.034	22.31
8)		Trichlorofluorometh	6.825	6.479	6.183	6.020	5.709	4.129	5.891	16.03
9)	M	1,1-Dichloroethene	3.788	4.037	4.089	4.175	4.124	2.945	3.860	12.12
10)		Carbon Disulfide	4.959	5.118	5.188	5.365	5.407	3.828	4.977	11.78
11)		1,1,2-Cl 1,2,2-F et	3.079	2.999	2.859	2.848	2.704	1.929	2.736	15.21
12)		Acetone		4.660	4.549	4.428	4.098	2.900	4.127	17.39
13)	M	Methylene Chloride	1.771	1.775	1.697	1.743	1.736	1.244	1.661	12.42
14)		t-1,2-Dichloroethen	1.665	1.812	1.807	1.887	1.893	1.392	1.743	10.93
15)		1,1-Dichloroethane	4.429	4.529	4.462	4.518	4.412	3.133	4.247	12.90
16)		Vinyl Acetate	6.157	7.514	8.204	8.415	8.246	5.492	7.338	16.76
17)		c-1,2-Dichloroethen	1.804	1.952	1.996	1.996	1.986	1.435	1.862	11.89
18)		2-Butanone	0.454	0.934	0.988	1.029	1.042	0.739	0.864	26.54
19)		t-Butyl Methyl Ethe	4.634	5.070	5.492	5.809	5.919	4.067	5.165	13.92
20)	t	Chloroform	4.957	4.914	4.781	4.768	4.634	3.319	4.562	13.58
21)		1,1,1-Trichloroetha	4.584	4.643	4.503	4.638	4.635	3.368	4.395	11.52
22)		1,1-Dichloropropene	2.979	3.397	3.494	3.584	3.566	2.571	3.265	12.45
23)	t	Carbon Tetrachlorid	3.485	4.021	3.962	4.252	4.278	3.138	3.856	11.75
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.510	1.415	1.432	1.350	1.455	1.334	1.416	4.65
26)	S	1,2-Dichloroethane-	0.386	0.363	0.378	0.380	0.399	0.645	0.425	25.49
27)		1,2-Dichloroethane	0.925	0.880	0.892	0.841	0.887	0.829	0.876	4.03
28)	M	Trichloroethene	0.477	0.474	0.489	0.480	0.528	0.496	0.491	4.07
29)		1,2-Dichloropropane	0.611	0.573	0.595	0.586	0.652	0.609	0.604	4.55
30)		Bromodichloromethan	0.911	1.016	1.049	1.056	1.169	1.057	1.043	7.95
31)		Dibromomethane	0.476	0.526	0.553	0.538	0.584	0.549	0.538	6.70
32)		c-1,3-Dichloroprope	0.465	0.628	0.699	0.740	0.901	0.872	0.717	22.48
33)		4-Methyl-2-Pentanon	0.932	1.031	1.204	1.199	1.337	1.202	1.151	12.58
34)	S	Toluene-d8	0.703	0.699	0.744	0.717	0.747	0.756	0.728	3.36
35)	M	Toluene	1.485	1.521	1.603	1.563	1.712	1.565	1.575	4.97
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.472	0.726	0.846	0.962	1.176	1.116	0.883	29.57
38)		1,1,2-Trichloroetha	0.780	0.827	0.803	0.802	0.848	0.766	0.804	3.71
39)		1,3-Dichloropropane	1.119	1.216	1.309	1.327	1.405	1.254	1.272	7.79
40)		Tetrachloroethene	0.954	0.905	0.887	0.898	0.917	0.815	0.896	5.11
41)		2-Hexanone		0.684	0.852	0.966	1.082	0.981	0.913	16.64
42)		Dibromochloromethan	0.945	1.103	1.131	1.211	1.360	1.219	1.161	11.97
43)	t	1,2-Dibromoethane	1.002	1.187	1.192	1.226	1.324	1.187	1.186	8.83
44)		Chlorobenzene	1.611	1.653	1.628	1.653	1.777	1.575	1.649	4.19
45)		1,1,1,2-Tetrachloro	0.652	0.738	0.797	0.824	0.903	0.814	0.788	10.81
46)	T	Ethylbenzene	2.518	3.047	3.153	3.185	3.351	2.786	3.007	10.10
47)	T	p,&m-Xylene	2.057	2.505	2.423	2.454	2.462	1.898	2.300	11.13
48)	T	o-Xylene	1.838	2.397	2.449	2.541	2.708	2.386	2.386	12.32
49)		Styrene	0.964	1.506	1.520	1.609	1.828	1.677	1.517	19.49
50)		Bromoform	0.639	0.838	0.852	0.967	1.151	1.050	0.916	19.68

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	2.060	2.746	3.181	3.210	3.328	2.883	2.901	16.08
52)	M	1,1,2,2-Tetrachloro	1.903	1.936	1.708	1.707	1.878	1.743	1.813	5.76
53)	S	4-Bromofluorobenzen	0.397	0.420	0.424	0.429	0.428	0.441	0.423	3.44
54)		Benzyl Chloride	0.703	0.875	0.991	1.431	2.180	2.137	1.386	46.52
55)		1,2,3-Trichloroprop	0.451	0.499	0.572	0.577	0.611	0.572	0.547	10.88
56)		n-Propyl Benzene	2.373	2.932	3.658	3.803	4.006	3.344	3.353	18.19
57)		Bromobenzene	1.375	1.559	1.904	1.896	2.085	1.864	1.781	14.69
58)		4-Ethyl Toluene	2.293	3.022	3.048	3.232	3.211	2.797	2.934	11.96
59)	T	1,3,5-Trimethylbenz	2.265	2.910	2.503	2.549	2.832	2.463	2.587	9.34
60)		2-Chlorotoluene	2.375	2.501	2.832	2.930	2.830	2.473	2.657	8.80
61)		4-Chlorotoluene	1.704	1.833	2.399	2.459	2.653	2.357	2.234	16.87
62)		tert-Butylbenzene	1.508	1.917	2.293	2.398	2.540	2.306	2.160	17.63
63)		1,2,4-Trimethylbenz	1.872	2.597	2.468	2.525	2.705	2.392	2.426	12.04
64)		sec-Butylbenzene	2.020	2.649	3.213	3.315	3.443	2.932	2.929	18.06
65)		p-Isopropyltoluene	1.100	1.633	2.170	2.310	2.406	2.133	1.959	25.44
66)		1,3-Dichlorobenzene	1.269	1.420	1.298	1.339	1.493	1.354	1.362	6.05
67)		1,4-Dichlorobenzene	1.282	1.323	1.250	1.318	1.479	1.342	1.332	5.92
68)		n-Butylbenzene	1.108	1.505	2.129	2.225	2.431	2.129	1.921	26.26
69)		1,2-Dichlorobenzene	1.300	1.355	1.207	1.229	1.398	1.271	1.294	5.67
70)		1,2-Dibromo-3-chlor	0.169	0.172	0.267	0.338	0.420	0.412	0.296	37.89
71)		1,2,4-Trichlorobenz	0.391	0.539	0.592	0.681	0.855	0.786	0.641	26.50
72)		Hexachlorobutadiene	0.746	0.783	0.621	0.717	0.796	0.708	0.729	8.66

= Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Initial Calibration

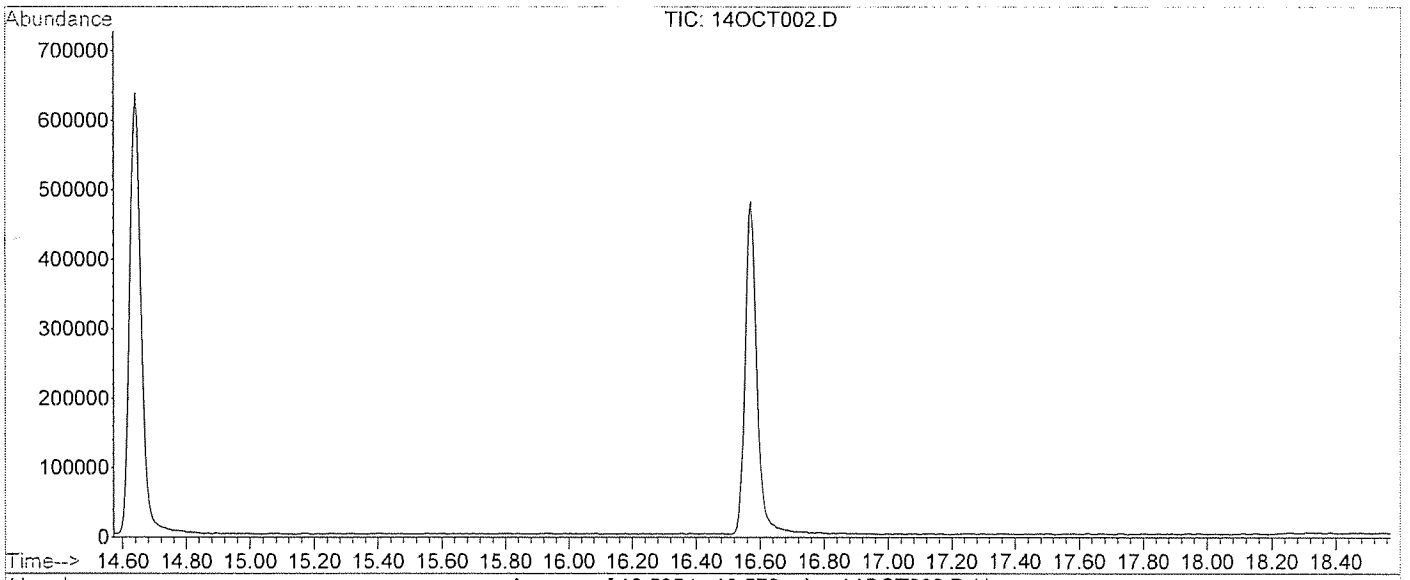
Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

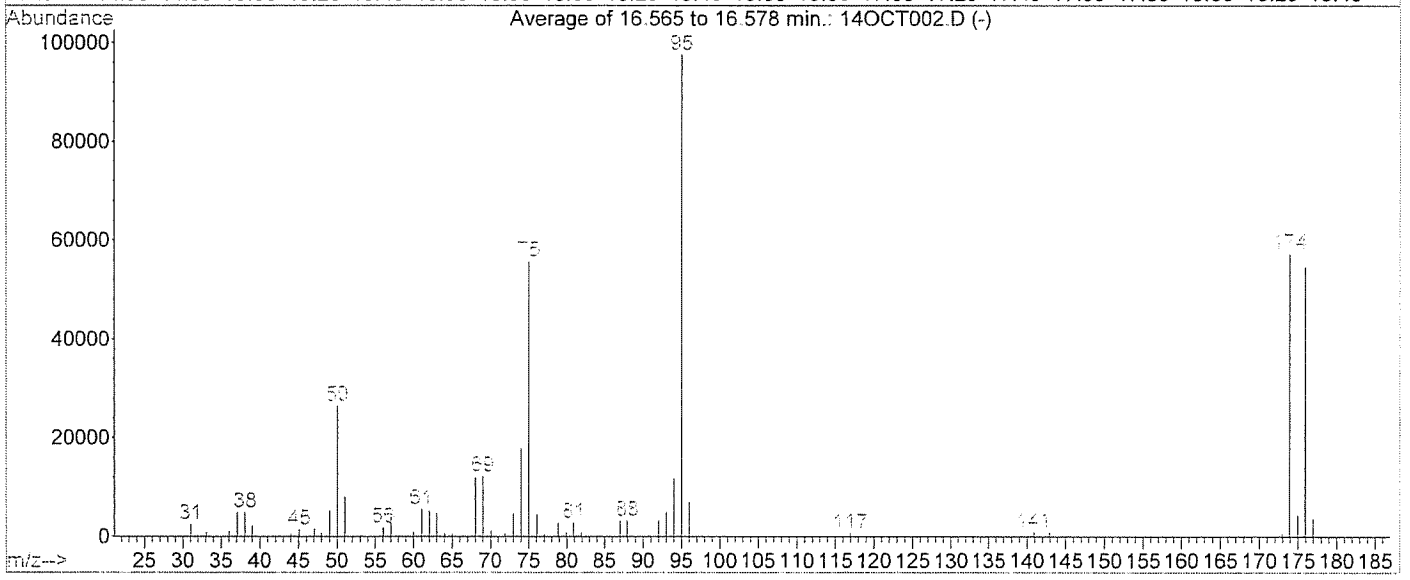
		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Propene	2.277	1.830	1.774	1.823	1.828	1.234	1.794	18.50
3)		isobutane		0.087	0.110	0.127	0.121	0.080	0.105	19.74
4)		1,3-Butadiene	1.817	1.709	1.696	1.828	1.922	1.381	1.725	10.92
5)		Methanol	1.050	0.294	0.153	0.092	0.082	0.062	0.289	~~132.58~~ NA
6)		Acetaldehyde		0.935	0.827	0.785	0.778	0.528	0.771	19.41
7)		Ethanol		0.477	0.736	0.674	0.739	0.487	0.623	21.06
8)		Vinyl Bromide	0.800	0.930	0.948	0.977	1.030	0.782	0.911	10.90
9)		Isopropanol	2.301	3.186	3.723	3.850	4.077	2.848	3.331	20.34
10)		Acrolein	0.452	0.646	0.721	0.785	0.823	0.594	0.670	20.37
11)		t-Butanol	2.359	3.023	3.319	3.654	3.936	2.306	3.100	21.59
12)		Allyl Chloride	2.042	2.355	2.435	2.561	2.732	1.959	2.347	12.71
13)		Acrylonitrile	0.714	1.663	1.677	1.983	1.913	1.380	1.555	29.83
14)		t-Butyl methyl ethe	4.635	5.110	5.491	5.810	5.948	4.084	5.180	13.89
15)		n-Hexane	3.251	3.746	3.972	4.072	4.035	2.856	3.655	13.57
16)		Isopropyl ether	6.232	7.172	7.790	8.063	7.771	5.184	7.035	15.90
17)		t-Butyl ethyl ether	1.648	2.050	2.255	2.447	2.505	1.824	2.122	16.17
18)		Ethyl Acetate		0.467	0.544	0.560	0.591	0.432	0.519	12.87
19)		2,2-Dichloropropane	2.754	3.053	3.259	3.482	3.301	2.238	3.014	15.07
20)		Tetrahydrofuran	0.710	0.851	0.934	1.006	1.015	0.732	0.875	15.22
21)		Cyclohexane	3.246	3.844	4.014	4.123	4.160	2.938	3.721	13.67
22)		2,2,4-Trimethylpent	1.120	1.296	1.336	1.341	1.280	0.858	1.205	E1 15.63
23)	I	1,4-Difluorobenzene	----------ISTD----------							
24)	S	1,2-Dichloroethane-	0.374	0.364	0.373	0.362	0.373	0.382	0.371	1.98
25)		t-Amyl methyl ether	0.956	1.076	1.155	1.231	1.424	1.336	1.196	14.31
26)		Heptane	0.438	0.484	0.495	0.489	0.548	0.522	0.496	7.51
27)		1,4-Dioxane	0.186	0.266	0.313	0.321	0.359		0.289	22.97
~~28)~~		~~2-chloroethylvinyle~~		~~0.002~~	~~0.007~~	~~0.010~~	~~0.014~~	~~0.015~~	~~0.010~~	~~56.21~~ NA
29)	S	Toluene-d8	0.696	0.699	0.735	0.714	0.744	0.756	0.724	3.40
30)		Chlorobenzene-d5	----------ISTD----------							
31)		Cyclohexanone		0.601	0.880	0.982	1.055	1.018	0.907	20.17
32)	S	4-Bromofluorobenzen	0.673	0.729	0.736	0.754	0.781	0.914	0.765	10.65
33)		Dicyclopentadiene		0.013	0.026	0.032	0.035	0.035	0.028	~~32.25~~ NA
34)		Naphthalene		1.158	1.314	1.599	2.045	1.852	1.594	23.04
35)		1,2,3-Trichlorobenz				0.000	0.004	0.004	0.003	~~71.56~~ NA

JT 9/2/11

#: = Out of Range

Data File : D:\GCMSB\111010\14OCT002.D Vial: 4
Acq On : 14 Oct 2011 5:24 Operator: DT
Sample : BFB Inst : GC/MS 597
Misc : 150ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.1	26424	PASS
75	95	30	60	57.1	55667	PASS
95	95	100	100	100.0	97552	PASS
96	95	5	9	7.1	6965	PASS
173	174	0.00	2	1.1	609	PASS
174	95	50	100	58.8	57317	PASS
175	174	5	9	7.4	4228	PASS
176	174	93	101	95.3	54619	PASS
177	176	5	9	6.7	3667	PASS

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111010\14OCT003.D Vial: 4
Acq On : 14 Oct 2011 6:00 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	105	-0.01
2		Dichlorodifluoromethane (12	6.332	5.884	7.1	92	-0.02
3		Chloromethane	2.441	2.284	6.4	94	-0.02
4		1,2-Cl-1,1,2,2-F ethane (11	5.768	5.414	6.1	94	-0.02
5		Vinyl Chloride	2.362	2.130	9.8	91	-0.02
6		Bromomethane	1.030	0.916	11.1	92	-0.01
7		Chloroethane	1.034	0.945	8.6	95	-0.02
8		Trichlorofluoromethane (11)	5.891	5.790	1.7	98	-0.01
9	M	1,1-Dichloroethene	3.860	3.860	0.0	99	-0.02
10		Carbon Disulfide	4.977	5.080	-2.1	103	-0.02
11		1,1,2-Cl 1,2,2-F ethane (11	2.736	2.625	4.1	96	-0.01
12		Acetone	4.127	4.488	-8.7	104	-0.01
13	M	Methylene Chloride	1.661	1.657	0.2	103	-0.01
14		t-1,2-Dichloroethene	1.743	1.714	1.7	100	-0.02
15		1,1-Dichloroethane	4.247	4.317	-1.6	102	-0.01
16		Vinyl Acetate	7.338	7.890	-7.5	101	-0.01
17		c-1,2-Dichloroethene	1.862	1.901	-2.1	100	0.00
18		2-Butanone	0.864	0.930	-7.6	99	0.00
19		t-Butyl Methyl Ether	5.165	5.017	2.9	96	-0.01
20	t	Chloroform	4.562	4.509	1.2	99	0.00
21		1,1,1-Trichloroethane	4.395	4.252	3.3	99	0.00
22		1,1-Dichloropropene	3.265	3.245	0.6	98	0.00
23	t	Carbon Tetrachloride	3.856	3.559	7.7	94	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
25	T	Benzene	1.416	1.371	3.2	99	0.00
26	S	1,2-Dichloroethane-d4	0.425	0.410	3.5	112	0.00
27		1,2-Dichloroethane	0.876	0.876	0.0	102	0.00
28	M	Trichloroethene	0.491	0.428	12.8	91	0.00
29		1,2-Dichloropropane	0.604	0.582	3.6	101	0.00
30		Bromodichloromethane	1.043	0.979	6.1	97	0.00
31		Dibromomethane	0.538	0.565	-5.0	106	0.00
32		c-1,3-Dichloropropene	0.717	0.628	12.4	93	0.00
33		4-Methyl-2-Pentanone	1.151	1.124	2.3	97	0.00
34	S	Toluene-d8	0.728	0.640	12.1	89	0.00
35	M	Toluene	1.575	1.422	9.7	92	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
37		t-1,3-Dichloropropene	0.883	0.832	5.8	95	0.00
38		1,1,2-Trichloroethane	0.804	0.816	-1.5	98	0.00
39		1,3-Dichloropropane	1.272	1.305	-2.6	96	0.00
40		Tetrachloroethene	0.896	0.849	5.2	92	0.00
41		2-Hexanone	0.913	0.835	8.5	94	0.00
42		Dibromochloromethane	1.161	1.048	9.7	89	0.00
43	t	1,2-Dibromoethane	1.186	1.117	5.8	90	0.00
44		Chlorobenzene	1.649	1.540	6.6	91	0.00
45		1,1,1,2-Tetrachloroethane	0.788	0.771	2.2	93	0.00
46	T	Ethylbenzene	3.007	2.935	2.4	90	0.00
47	T	p,&m-Xylene	2.300	2.323	-1.0	92	0.00
48	T	o-Xylene	2.386	2.223	6.8	88	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111010\14OCT003.D Vial: 4
Acq On : 14 Oct 2011 6:00 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.517	1.354	10.7	86	0.00
50		Bromoform	0.916	0.757	17.4	86	0.00
51		Isopropyl benzene	2.901	3.105	-7.0	94	0.00
52	M	1,1,2,2-Tetrachloroethane	1.813	1.810	0.2	102	0.00
53	S	4-Bromofluorobenzene	0.423	0.420	0.7	96	0.00
54		Benzyl Chloride	1.386	1.041	24.9	101	0.00
55		1,2,3-Trichloropropane	0.547	0.572	-4.6	96	0.00
56		n-Propyl Benzene	3.353	3.392	-1.2	89	0.00
57		Bromobenzene	1.781	1.850	-3.9	94	0.00
58		4-Ethyl Toluene	2.934	2.630	10.4	83	0.00
59	T	1,3,5-Trimethylbenzene	2.587	2.245	13.2	86	0.00
60		2-Chlorotoluene	2.657	3.175	-19.5	108	0.00
61		4-Chlorotoluene	2.234	2.046	8.4	82	0.00
62		tert-Butylbenzene	2.160	2.044	5.4	86	0.00
63		1,2,4-Trimethylbenzene	2.426	2.227	8.2	87	0.00
64		sec-Butylbenzene	2.929	2.963	-1.2	89	0.00
65		p-Isopropyltoluene	1.959	1.926	1.7	86	0.00
66		1,3-Dichlorobenzene	1.362	1.243	8.7	92	0.00
67		1,4-Dichlorobenzene	1.332	1.140	14.4	88	0.00
68		n-Butylbenzene	1.921	1.884	1.9	85	0.00
69		1,2-Dichlorobenzene	1.294	1.168	9.7	93	0.00
70		1,2-Dibromo-3-chloropropane	0.296	0.211	28.7	76	0.00
71		1,2,4-Trichlorobenzene	0.641	0.378	41.0#	62	0.00
72		Hexachlorobutadiene	0.729	0.546	25.1	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111010\14OCT003.D Vial: 4
Acq On : 14 Oct 2011 6:00 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Multiple Level Calibration

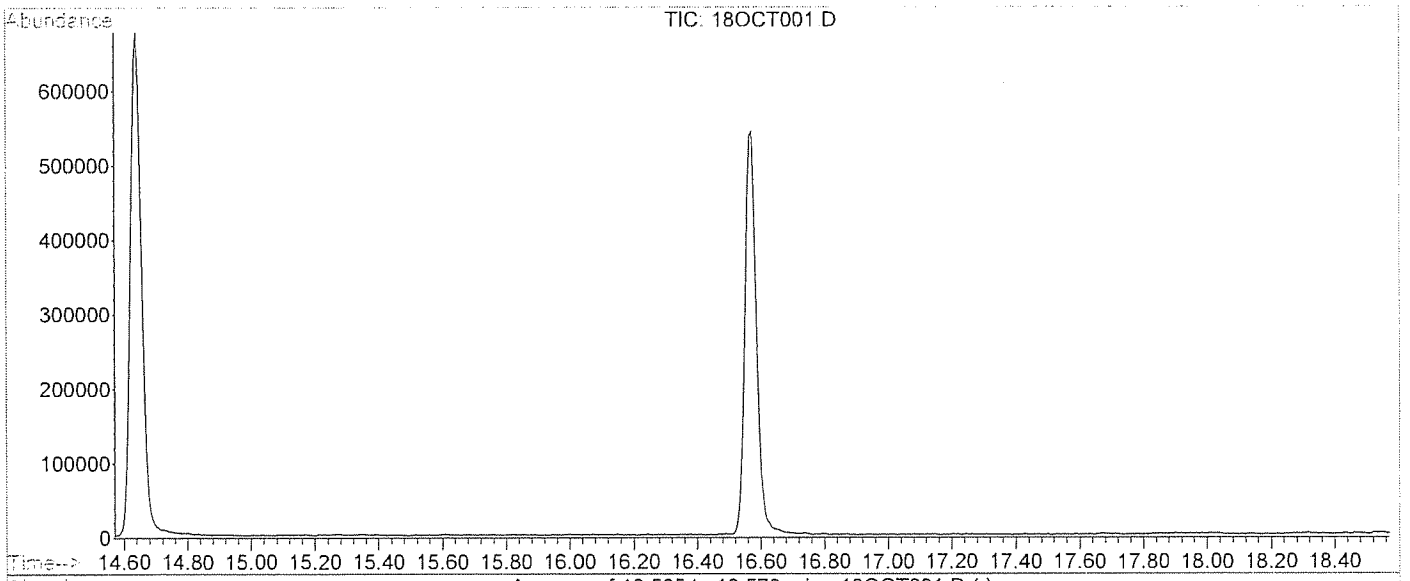
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

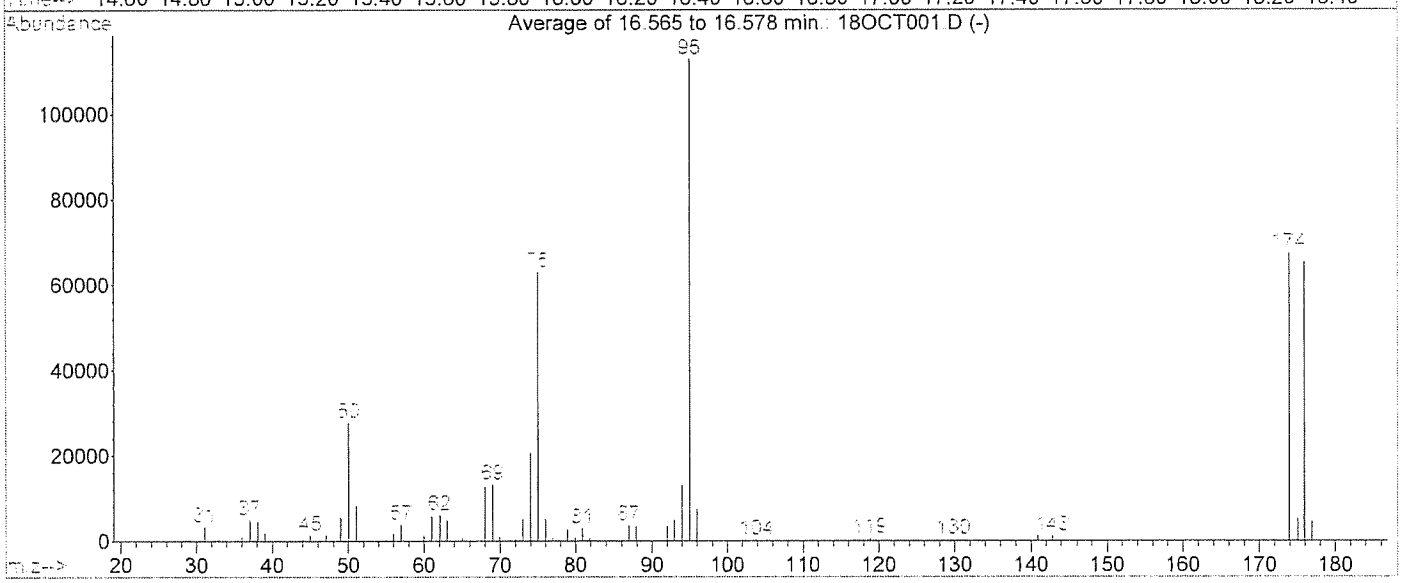
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	105	0.00
2		Propene	1.794	1.640	8.6	97	0.02
3		isobutane	0.105	0.110	-4.8	106	0.00
4		1,3-Butadiene	1.725	1.528	11.4	95	0.01
5		Methanol	0.289	0.199	31.1#	137	0.01
6		Acetaldehyde	0.771	0.746	3.2	95	0.02
7		Ethanol	0.623	0.745	-19.6	107	0.01
8		Vinyl Bromide	0.911	0.620	31.9#	69	0.00
9		Isopropanol	3.331	3.672	-10.2	104	0.00
10		Acrolein	0.670	0.688	-2.7	100	0.02
11		t-Butanol	3.100	3.251	-4.9	103	0.12
12		Allyl Chloride	2.347	2.687	-14.5	116	0.00
13		Acrylonitrile	1.555	1.900	-22.2	119	0.01
14		t-Butyl methyl ether	5.180	4.992	3.6	96	0.01
15		n-Hexane	3.655	3.642	0.4	97	0.01
16		Isopropyl ether	7.035	7.622	-8.3	103	0.00
17		t-Butyl ethyl ether	2.122	2.103	0.9	98	0.00
18		Ethyl Acetate	0.519	0.511	1.5	99	0.00
19		2,2-Dichloropropane	3.014	3.359	-11.4	109	0.00
20		Tetrahydrofuran	0.875	0.880	-0.6	99	0.01
21		Cyclohexane	3.721	3.699	0.6	97	0.01
22		2,2,4-Trimethylpentane	12.053	12.944	-7.4	102	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
24	S	1,2-Dichloroethane-d4	0.371	0.406	-9.4	112	0.00
25		t-Amyl methyl ether	1.196	1.151	3.8	102	0.01
26		Heptane	0.496	0.464	6.5	96	0.00
27		1,4-Dioxane	0.289	0.293	-1.4	96	0.00
28		2-chloroethylvinylether	0.010	0.009	10.0	131	0.00
29	S	Toluene-d8	0.724	0.640	11.6	89	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
31		Cyclohexanone	0.907	0.850	6.3	94	0.00
32	S	4-Bromofluorobenzene	0.765	0.740	3.3	98	0.00
33		Dicyclopentadiene	0.028	0.025	10.7	93	0.00
34		Naphthalene	1.594	0.797	50.0#	59	0.01
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : D:\GCMSB\111017\18OCT001.D
Acq On : 18 Oct 2011 8:35
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 4
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	27723	PASS
75	95	30	60	55.8	63021	PASS
95	95	100	100	100.0	112893	PASS
96	95	5	9	6.5	7389	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	59.6	67325	PASS
175	174	5	9	7.8	5245	PASS
176	174	95	101	97.0	65288	PASS
177	176	5	9	6.8	4449	PASS

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\18OCT002.D Vial: 4
Acq On : 18 Oct 2011 9:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	85	-0.01
2		Dichlorodifluoromethane (12	6.332	7.552	-19.3	96	-0.02
3		Chloromethane	2.441	2.873	-17.7	96	-0.01
4		1,2-Cl-1,1,2,2-F ethane (11	5.768	6.892	-19.5	97	-0.02
5		Vinyl Chloride	2.362	2.716	-15.0	95	-0.02
6		Bromomethane	1.030	1.150	-11.7	94	-0.01
7		Chloroethane	1.034	1.147	-10.9	94	-0.01
8		Trichlorofluoromethane (11)	5.891	7.255	-23.2	100	-0.01
9	M	1,1-Dichloroethene	3.860	4.120	-6.7	86	-0.01
10		Carbon Disulfide	4.977	5.724	-15.0	94	-0.01
11		1,1,2-Cl 1,2,2-F ethane (11	2.736	3.172	-15.9	95	-0.02
12		Acetone	4.127	5.221	-26.5	98	-0.01
13	M	Methylene Chloride	1.661	1.840	-10.8	93	-0.01
14		t-1,2-Dichloroethene	1.743	1.750	-0.4	83	-0.01
15		1,1-Dichloroethane	4.247	4.285	-0.9	82	-0.01
16		Vinyl Acetate	7.338	7.332	0.1	76	-0.01
17		c-1,2-Dichloroethene	1.862	1.868	-0.3	80	0.00
18		2-Butanone	0.864	0.938	-8.6	81	-0.01
19		t-Butyl Methyl Ether	5.165	5.384	-4.2	84	-0.01
20	t	Chloroform	4.562	4.758	-4.3	85	0.00
21		1,1,1-Trichloroethane	4.395	4.928	-12.1	93	0.00
22		1,1-Dichloropropene	3.265	3.767	-15.4	92	0.00
23	t	Carbon Tetrachloride	3.856	4.370	-13.3	94	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
25	T	Benzene	1.416	1.247	11.9	85	0.00
26	S	1,2-Dichloroethane-d4	0.425	0.385	9.4	99	0.00
27		1,2-Dichloroethane	0.876	0.838	4.3	92	0.00
28	M	Trichloroethene	0.491	0.422	14.1	84	0.00
29		1,2-Dichloropropane	0.604	0.532	11.9	87	-0.01
30		Bromodichloromethane	1.043	0.972	6.8	90	0.00
31		Dibromomethane	0.538	0.525	2.4	93	0.00
32		c-1,3-Dichloropropene	0.717	0.624	13.0	87	0.00
33		4-Methyl-2-Pentanone	1.151	1.032	10.3	84	0.00
34	S	Toluene-d8	0.728	0.647	11.1	85	0.00
35	M	Toluene	1.575	1.374	12.8	84	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
37		t-1,3-Dichloropropene	0.883	0.817	7.5	94	0.00
38		1,1,2-Trichloroethane	0.804	0.746	7.2	91	0.00
39		1,3-Dichloropropane	1.272	1.186	6.8	88	0.00
40		Tetrachloroethene	0.896	0.820	8.5	90	0.00
41		2-Hexanone	0.913	0.745	18.4	85	0.00
42		Dibromochloromethane	1.161	1.036	10.8	89	0.00
43	t	1,2-Dibromoethane	1.186	1.069	9.9	87	0.00
44		Chlorobenzene	1.649	1.556	5.6	93	0.00
45		1,1,1,2-Tetrachloroethane	0.788	0.793	-0.6	97	0.00
46	T	Ethylbenzene	3.007	2.746	8.7	85	0.00
47	T	p,&m-Xylene	2.300	2.248	2.3	90	0.00
48	T	o-Xylene	2.386	2.114	11.4	84	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\18OCT002.D Vial: 4
Acq On : 18 Oct 2011 9:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.517	1.348	11.1	86	0.00
50		Bromoform	0.916	0.831	9.3	95	0.00
51		Isopropyl benzene	2.901	3.005	-3.6	92	0.00
52	M	1,1,2,2-Tetrachloroethane	1.813	1.739	4.1	99	0.00
53	S	4-Bromofluorobenzene	0.423	0.457	-8.0	105	0.00
54		Benzyl Chloride	1.386	1.147	17.2	113	0.00
55		1,2,3-Trichloropropane	0.547	0.569	-4.0	97	0.00
56		n-Propyl Benzene	3.353	3.257	2.9	87	0.00
57		Bromobenzene	1.781	1.776	0.3	91	0.00
58		4-Ethyl Toluene	2.934	2.552	13.0	82	0.00
59	T	1,3,5-Trimethylbenzene	2.587	2.274	12.1	89	0.00
60		2-Chlorotoluene	2.657	3.043	-14.5	105	0.00
61		4-Chlorotoluene	2.234	1.966	12.0	80	0.00
62		tert-Butylbenzene	2.160	2.061	4.6	88	0.00
63		1,2,4-Trimethylbenzene	2.426	2.338	3.6	92	0.00
64		sec-Butylbenzene	2.929	2.956	-0.9	90	0.00
65		p-Isopropyltoluene	1.959	1.892	3.4	85	0.00
66		1,3-Dichlorobenzene	1.362	1.217	10.6	91	0.00
67		1,4-Dichlorobenzene	1.332	1.166	12.5	91	0.00
68		n-Butylbenzene	1.921	1.848	3.8	85	0.00
69		1,2-Dichlorobenzene	1.294	1.148	11.3	93	0.00
70		1,2-Dibromo-3-chloropropane	0.296	0.229	22.6	83	0.00
71		1,2,4-Trichlorobenzene	0.641	0.391	39.0#	64	0.00
72		Hexachlorobutadiene	0.729	0.582	20.2	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\18OCT002.D Vial: 4
Acq On : 18 Oct 2011 9:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	85	0.00
2		Propene	1.794	1.946	-8.5	94	0.02
3		isobutane	0.105	0.123	-17.1	96	0.02
4		1,3-Butadiene	1.725	1.913	-10.9	96	0.00
5		Methanol	0.289	0.266	8.0	148	0.00
6		Acetaldehyde	0.771	0.898	-16.5	93	0.00
7		Ethanol	0.623	0.964	-54.7#	112	0.00
8		Vinyl Bromide	0.911	0.818	10.2	74	0.00
9		Isopropanol	3.331	4.095	-22.9	94	0.00
10		Acrolein	0.670	0.781	-16.6	92	0.00
11		t-Butanol	3.100	3.739	-20.6	96	0.15
12		Allyl Chloride	2.347	2.586	-10.2	91	0.00
13		Acrylonitrile	1.555	1.632	-5.0	83	0.00
14		t-Butyl methyl ether	5.180	5.384	-3.9	84	0.00
15		n-Hexane	3.655	3.381	7.5	73	0.00
16		Isopropyl ether	7.035	6.800	3.3	75	0.00
17		t-Butyl ethyl ether	2.122	2.261	-6.6	86	0.00
18		Ethyl Acetate	0.519	0.510	1.7	80	0.00
19		2,2-Dichloropropane	3.014	3.760	-24.8	98	0.00
20		Tetrahydrofuran	0.875	0.830	5.1	76	0.00
21		Cyclohexane	3.721	3.757	-1.0	80	0.00
22		2,2,4-Trimethylpentane	12.053	13.390	-11.1	86	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
24	S	1,2-Dichloroethane-d4	0.371	0.383	-3.2	99	0.00
25		t-Amyl methyl ether	1.196	1.177	1.6	98	0.00
26		Heptane	0.496	0.417	15.9	81	0.00
27		1,4-Dioxane	0.289	0.266	8.0	82	0.00
28		2-chloroethylvinylether	0.010	0.007	30.0	97	0.00
29	S	Toluene-d8	0.724	0.643	11.2	84	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
31		Cyclohexanone	0.907	0.785	13.5	88	0.01
32	S	4-Bromofluorobenzene	0.765	0.773	-1.0	103	0.00
33		Dicyclopentadiene	0.028	0.030	-7.1	110	0.00
34		Naphthalene	1.594	0.859	46.1#	64	0.00
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AirTECHNOLOGY
Laboratories, Inc.

November 21, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – ISVE System; E742
Lab Number: C110703-01/03

Enclosed are results for sample(s) received 11/07/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

Standard [X] 48 hours [ ]
Same Day [ ] 72 hours [ ]
24 hours [ ] 96 hours [ ]
Other:

DELIVERABLES

EDD [ ]
EDF [ ]
LEVEL 3 [ ]
LEVEL 4 [ ]

PAGE: OF

Condition upon receipt:
Sealed Yes [ ] No [ ]
Intact Yes [ ] No [ ]
Chilled _____ deg C

Project No.: E742
Project Name: Omega - ISVE System
Report To: Ken Hewlett
Company: de maximis Inc.
Street: 1322 Scott Street, Suite 104
City/State/Zip: San Diego, CA 92106
Phone& Fax: (310) 926-5368
e-mail: khewlett@demaximis.com

BILLING

P.O. No.:
Bill to: de maximis, Inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	TO-15 (TAL 2.3)					
C110703-01	OC_SVE_EFF_GAC_11711	11/7/11	1235	Air	Summa	X					
-02	OC_SVE_MID_GAC_11711	11/7/11	1237	Air	Summa	X					
-03	OC_SVE_INF_GAC_11711	11/7/11	1239	Air	Summa	X					

AUTHORIZATION TO PERFORM WORK	COMPANY	DATE/TIME
Carlton Hamm Jr.	JHA.	11/7/11

SAMPLED BY	COMPANY	DATE/TIME
Carlton Hamm Jr.	JHA.	11/7/11

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	11/7/11 1505	DON TWNGOON	11/7/11 1505
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCL **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other

Rev. 03 - 5/7/09

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110703-01			C110703-02			C110703-03		
Client Sample I.D.:	OC_SVE_EFF_GAC_1171 1			OC_SVE_MID_GAC_1171 1			OC_SVE_INF_GAC_1171 1		
Date Sampled:	11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/19/11			11/19/11		
QC Batch No.:	111119MS2A1			111119MS2A1			111119MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	3.7			5.1			40		
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**
Dichlorodifluoromethane (12)	1.0 J	3.7	0.17	ND	5.1	0.24	ND	40	1.9
Vinyl Chloride	ND	3.7	0.81	ND	5.1	1.1	ND	40	8.8
Trichlorofluoromethane (11)	130	3.7	1.5	72	5.1	2.1	50	40	16
1,1-Dichloroethene	610	3.7	0.40	580	5.1	0.55	390	40	4.3
Carbon Disulfide	ND	18	0.55	ND	25	0.75	ND	200	5.9
1,1,2-Cl 1,2,2-F ethane (113)	390	3.7	0.85	290	5.1	1.2	230	40	9.1
Methylene Chloride	8.9	3.7	0.72	5.3	5.1	0.99	ND	40	7.8
1,1-Dichloroethane	6.4	3.7	0.44	11	5.1	0.60	ND	40	4.7
2-Butanone	ND	3.7	0.93	ND	5.1	1.3	ND	40	10
Chloroform	15	3.7	0.51	49	5.1	0.70	37 J	40	5.5
1,1,1-Trichloroethane	7.0	3.7	0.42	33	5.1	0.58	27 J	40	4.5
Carbon Tetrachloride	ND	3.7	0.42	ND	5.1	0.58	ND	40	4.5
Benzene	ND	3.7	0.72	1.9 J	5.1	0.99	9.0 J	40	7.8
1,2-Dichloroethane	1.1 J	3.7	0.97	24	5.1	1.3	48	40	10
Trichloroethene	ND	3.7	0.57	59	5.1	0.78	210	40	6.2
Toluene	1.3 J	3.7	0.47	5.2	5.1	0.64	19 J	40	5.1
1,1,2-Trichloroethane	ND	3.7	0.75	ND	5.1	1.0	ND	40	8.1
Tetrachloroethene	30	3.7	0.41	370	5.1	0.57	7,300	40	4.5
o-Xylene	2.1 J	3.7	0.51	11	5.1	0.70	30 J	40	5.5
Isopropanol	ND	18	2.5	ND	25	3.4	ND	200	27
n-Hexane	ND	18	0.93	ND	25	1.3	ND	200	10.0
1,4-Dioxane	ND	18	2.4	ND	25	3.3	ND	200	26
Total VOC's	1,200			1,500			8,400		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	94%	70-130%	95%	70-130%	91%	70-130%
Toluene-d8	97%	70-130%	94%	70-130%	95%	70-130%
4-Bromofluorobenzene	100%	70-130%	95%	70-130%	99%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager

Date 11/21/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110703-01			C110703-02			C110703-03		
Client Sample I.D.:	OC_SVE_EFF_GAC_1171 1			OC_SVE_MID_GAC_1171 1			OC_SVE_INF_GAC_1171 1		
Date Sampled:	11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/19/11			11/19/11		
QC Batch No.:	111119MS2A1			111119MS2A1			111119MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	3.7			5.1			40		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	5.1 J	18	0.86	ND	25	1.2	ND	200	9.3
Vinyl Chloride	ND	9.4	2.1	ND	13	2.9	ND	100	22
Trichlorofluoromethane (11)	760	21	8.5	400	28	12	280	220	91
1,1-Dichloroethene	2,400	15	1.6	2,300	20	2.2	1,500	160	17
Carbon Disulfide	ND	57	1.7	ND	79	2.3	ND	620	18
1,1,2-Cl 1,2,2-F ethane (113)	3,000	28	6.5	2,200	39	8.9	1,700	300	70
Methylene Chloride	31	13	2.5	18	18	3.4	ND	140	27
1,1-Dichloroethane	26	15	1.8	44	20	2.4	ND	160	19
2-Butanone	ND	11	2.8	ND	15	3.8	ND	120	30
Chloroform	73	18	2.5	240	25	3.4	180 J	190	27
1,1,1-Trichloroethane	38	20	2.3	180	28	3.1	150 J	220	25
Carbon Tetrachloride	ND	23	2.7	ND	32	3.6	ND	250	29
Benzene	ND	12	2.3	5.9 J	16	3.2	29 J	130	25
1,2-Dichloroethane	4.6 J	15	3.9	97	20	5.4	190	160	42
Trichloroethene	ND	20	3.1	320	27	4.2	1,200	210	33
Toluene	5.0 J	14	1.8	20	19	2.4	73 J	150	19
1,1,2-Trichloroethane	ND	20	4.1	ND	28	5.6	ND	220	44
Tetrachloroethene	200	25	2.8	2,500	34	3.9	49,000	270	30
o-Xylene	9.3 J	16	2.2	48	22	3.0	130 J	170	24
Isopropanol	ND	45	6.2	ND	62	8.5	ND	490	66
n-Hexane	ND	65	3.3	ND	89	4.5	ND	700	35
1,4-Dioxane	ND	66	8.7	ND	91	12	ND	710	93
Total VOC's	6,600			8,400			54,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	94%	70-130%	95%	70-130%	91%	70-130%
Toluene-d8	97%	70-130%	94%	70-130%	95%	70-130%
4-Bromofluorobenzene	100%	70-130%	95%	70-130%	99%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: _____ Date 11/21/11
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111119MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	11/19/11		11/19/11		11/19/11						
Data File ID:	19NOV006.D		19NOV004.D		19NOV013.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.3	113	11.4	114	1.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.2	112	11.1	111	1.3	70	130	30	Pass
Trichloroethene	0.0	10.0	10.3	103	10.0	100	2.7	70	130	30	Pass
Toluene	0.0	10.0	9.3	93	9.6	96	3.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.9	119	11.4	114	4.6	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 11/21/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111114\19NOV002.D
Tune Time : 18 Nov 2011 23:59

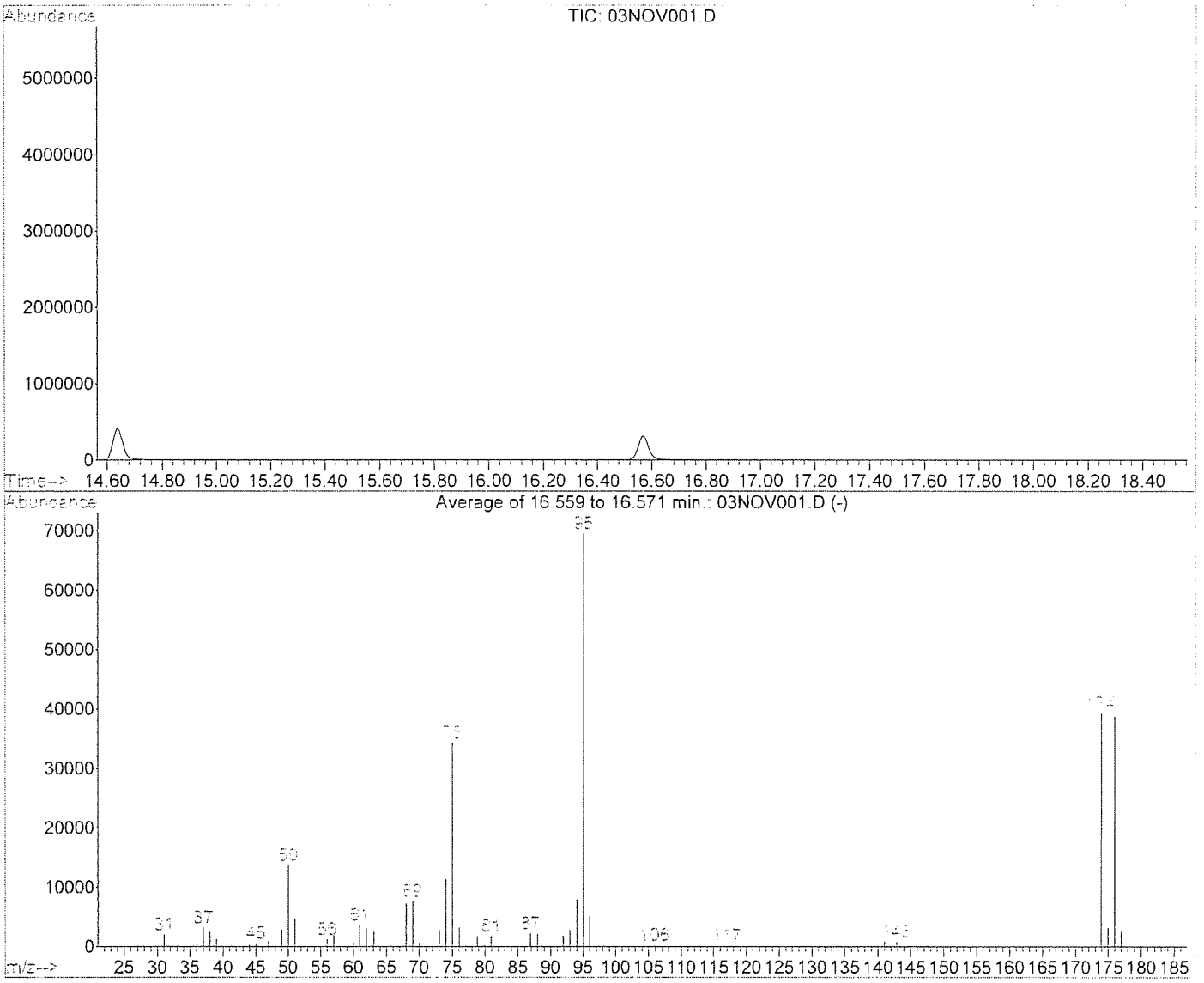
Daily Calibration File : D:\GCMSB\111114\19NOV003.D

					Daily cali. I.S. response		
					40645	180551	117369
File	Sample	Surrogate Recovery %			Internal Standard Responses		
19NOV004	TO15 LCS	91	95	99	38205	177284	110984
19NOV006	METHOD BLANK	91	94	84	37617	173367	107622
19NOV011	C110703-02 d	95	94	95	37433	170970	106934
19NOV012	C110703-03 d	91	95	99	38625	179526	117643
19NOV013	TO15 LCSD	93	94	96	40536	180983	119973
19NOV015	C110703-01	94	97	100	39013	173479	112339

surrogate recovery limits 70-130%
Internal standard response limits 60-140%

t - fails 24hr time check * - fails criteria
Created:Mon Nov 21 17:28:21 2011

Data File : D:\GCMSB\111031\03NOV001.D Vial: 4
Acq On : 3 Nov 2011 13:53 Operator: VM
Sample : BFB Inst : GC/MS 597
Misc : 150ML (AFTER TRAP REPLACEMENT) Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm



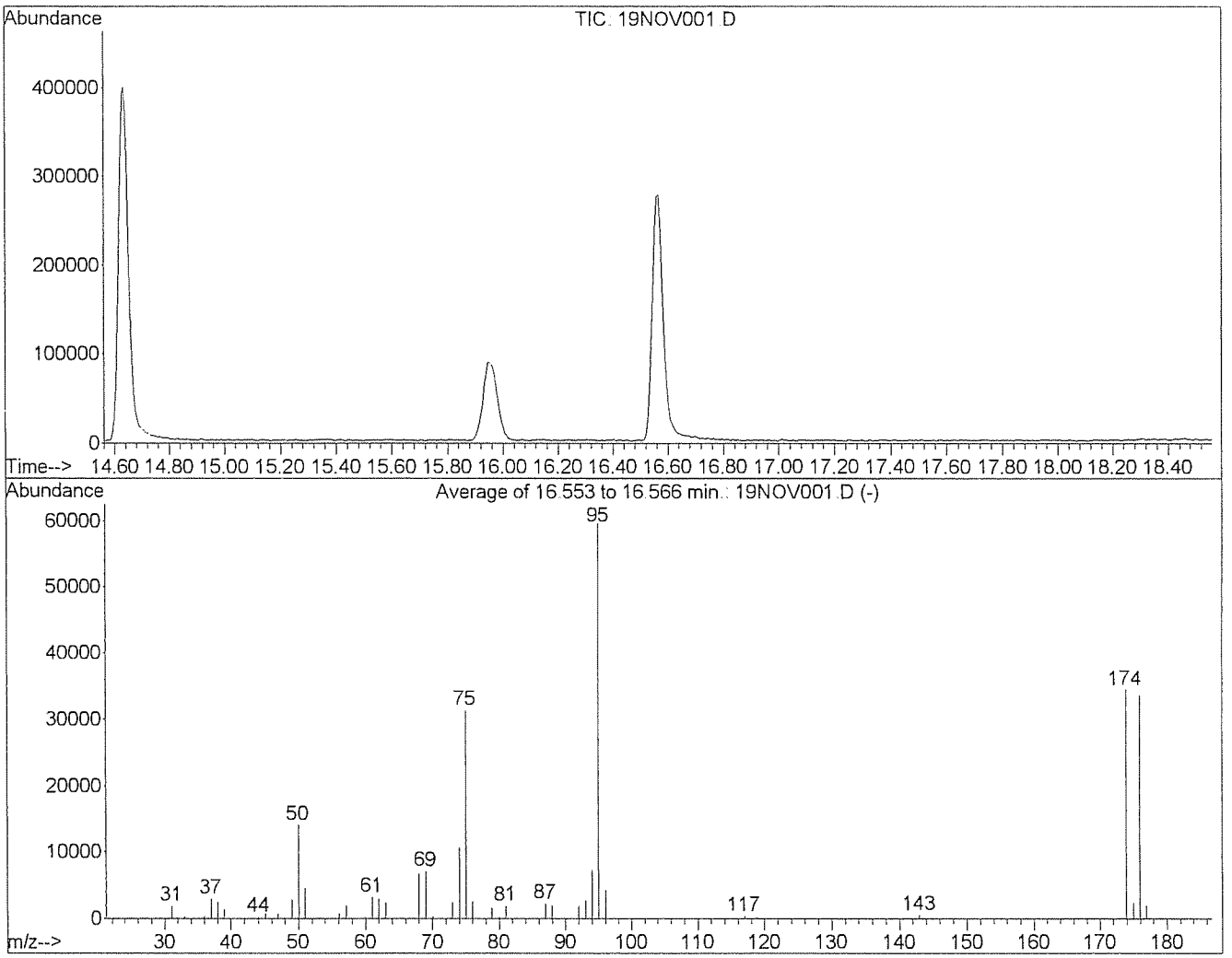
AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	13692	PASS
75	95	30	60	49.3	34251	PASS
95	95	100	100	100.0	69525	PASS
96	95	5	9	7.3	5045	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.5	39248	PASS
175	174	5	9	7.9	3117	PASS
176	174	95	101	98.7	38731	PASS
177	176	5	9	6.6	2572	PASS

BFB

Data File : D:\GCMSB\111114\19NOV001.D
Acq On : 18 Nov 2011 23:22
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00



AutoFind: Scans 2200, 2201, 2202; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	14051	PASS
75	95	30	60	52.6	31360	PASS
95	95	100	100	100.0	59675	PASS
96	95	5	9	7.3	4336	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	57.9	34536	PASS
175	174	5	9	7.2	2493	PASS
176	174	95	101	97.5	33667	PASS
177	176	5	9	6.0	2030	PASS

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	6.224	6.094	5.996	5.490	4.873	3.597	5.379	18.69
3)		Chloromethane	2.188	1.847	1.774	1.579	1.501	1.200	1.681	20.04
4)		1,2-Cl-1,1,2,2-F et	5.442	5.629	5.388	4.999	4.462	3.338	4.876	17.64
5)		Vinyl Chloride	1.645	1.715	1.627	1.452	1.376	1.125	1.490	14.73
6)		Bromomethane	1.470	0.715	1.206	0.745	1.110	0.591	0.973	35.16
7)		Chloroethane	1.104	1.079	1.016	1.214	0.918	0.733	1.011	16.58
8)		Trichlorofluorometh	6.426	6.153	6.005	5.573	5.119	3.985	5.543	16.08
9)	M	1,1-Dichloroethene	3.545	3.584	3.289	3.103	3.059	2.369	3.158	14.05
10)		Carbon Disulfide	5.645	5.413	4.908	4.526	4.412	3.376	4.713	17.27
11)		1,1,2-Cl 1,2,2-F et	3.264	3.069	2.784	2.569	2.531	1.973	2.698	16.87
12)		Acetone	5.168	4.583	3.760	3.571	3.532	2.590	3.867	23.26
13)	M	Methylene Chloride	1.853	1.687	1.586	1.452	1.426	1.124	1.521	16.45
14)		t-1,2-Dichloroethen	1.811	1.965	1.840	1.688	1.679	1.346	1.722	12.33
15)		1,1-Dichloroethane	4.175	3.945	3.725	3.504	3.247	2.423	3.503	17.73
16)		Vinyl Acetate	6.696	7.776	7.113	7.292	6.444	4.832	6.692	15.28
17)		c-1,2-Dichloroethen	1.909	2.044	1.936	1.888	1.701	1.292	1.795	15.06
18)		2-Butanone	0.806	0.945	0.943	0.874	0.875	0.664	0.851	12.36
19)		t-Butyl Methyl Ethe	6.111	5.746	5.162	4.937	5.008	4.160	5.187	13.12
20)	t	Chloroform	4.790	4.478	4.353	4.019	3.825	2.989	4.076	15.50
21)		1,1,1-Trichloroetha	4.497	4.186	3.720	3.824	3.984	3.237	3.908	10.99
22)		1,1-Dichloropropene	3.606	3.353	3.343	3.145	2.817	2.176	3.074	16.66
23)	t	Carbon Tetrachlorid	3.340	3.382	3.037	3.338	3.803	3.134	3.339	7.93
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.920	1.408	1.373	1.309	1.340	1.170	1.420	18.18
26)	S	1,2-Dichloroethane-	0.379	0.381	0.422	0.453	0.479	0.624	0.456	19.91
27)		1,2-Dichloroethane	0.772	0.696	0.747	0.700	0.745	0.639	0.717	6.72
28)	M	Trichloroethene	0.544	0.518	0.559	0.540	0.582	0.513	0.542	4.75
29)		1,2-Dichloropropane	0.498	0.485	0.507	0.496	0.530	0.470	0.498	4.11
30)		Bromodichloromethan	0.882	0.883	0.932	0.949	1.034	0.882	0.927	6.47
31)		Dibromomethane	0.542	0.581	0.562	0.550	0.566	0.482	0.547	6.33
32)		c-1,3-Dichloroprope	0.615	0.608	0.592	0.672	0.796	0.727	0.668	11.98
33)		4-Methyl-2-Pentanon	1.035	1.027	1.092	1.107	1.154	1.013	1.071	5.15
34)	S	Toluene-d8	0.857	0.849	0.861	0.852	0.865	0.867	0.858	0.81
35)	M	Toluene	1.867	1.499	1.566	1.516	1.557	1.367	1.562	10.60
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.583	0.668	0.659	0.763	1.008	0.955	0.773	22.31
38)		1,1,2-Trichloroetha	0.765	0.770	0.829	0.790	0.800	0.705	0.776	5.38
39)		1,3-Dichloropropane	1.276	1.219	1.267	1.197	1.212	1.073	1.207	6.04
40)		Tetrachloroethene	0.989	0.878	0.961	0.908	0.906	0.804	0.908	7.14
41)		2-Hexanone	0.568	0.671	0.786	0.819	0.818	0.736	0.733	13.45
42)		Dibromochloromethan	1.003	1.033	1.135	1.185	1.398	1.253	1.168	12.50
43)	t	1,2-Dibromoethane	1.129	1.075	1.231	1.203	1.253	1.105	1.166	6.25
44)		Chlorobenzene	1.677	1.539	1.738	1.640	1.650	1.482	1.621	5.78
45)		1,1,1,2-Tetrachloro	0.712	0.742	0.708	0.762	0.886	0.808	0.770	8.82
46)	T	Ethylbenzene	2.809	2.657	2.926	2.815	2.784	2.439	2.738	6.20
47)	T	p,&m-Xylene	2.672	2.170	2.458	2.262	2.153	1.695	2.235	14.75
48)	T	o-Xylene	3.044	2.297	2.543	2.389	2.343	2.000	2.436	14.24
49)		Styrene	1.302	1.411	1.625	1.591	1.558	1.397	1.481	8.69
50)		Bromoform	0.631	0.643	0.726	0.830	1.032	0.956	0.803	20.68

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	3.404	2.955	3.096	2.929	2.845	2.528	2.960	9.75
52)	M	1,1,2,2-Tetrachloro	1.704	1.633	1.680	1.595	1.583	1.378	1.595	7.29
53)	S	4-Bromofluorobenzen	0.342	0.350	0.370	0.366	0.371	0.374	0.362	3.59
54)		Benzyl Chloride	0.797	0.608	0.541	0.852	1.487	1.652	0.990	47.18
55)		1,2,3-Trichloroprop	0.558	0.565	0.598	0.581	0.584	0.530	0.569	4.24
56)		n-Propyl Benzene	4.237	3.487	3.697	3.493	3.303	2.749	3.494	13.93
57)		Bromobenzene	1.827	1.535	1.655	1.568	1.485	1.254	1.554	12.22
58)		4-Ethyl Toluene	3.409	3.070	3.168	2.981	3.081	2.697	3.068	7.60
59)	T	1,3,5-Trimethylbenz	3.695	2.576	2.681	2.530	2.272	1.875	2.605	23.32
60)		2-Chlorotoluene	3.207	2.578	2.680	2.656	2.429	2.320	2.645	11.64
61)		4-Chlorotoluene	2.691	2.007	2.236	2.194	2.118	1.853	2.183	13.04
62)		tert-Butylbenzene	2.853	2.419	2.532	2.389	2.265	2.055	2.419	11.06
63)		1,2,4-Trimethylbenz	3.277	2.831	2.705	2.609	2.539	2.197	2.693	13.25
64)		sec-Butylbenzene	3.470	2.980	3.250	3.070	2.913	2.558	3.040	10.22
65)		p-Isopropyltoluene	2.400	2.323	2.524	2.407	2.284	2.035	2.329	7.13
66)		1,3-Dichlorobenzene	1.889	1.309	1.482	1.422	1.437	1.296	1.473	14.74
67)		1,4-Dichlorobenzene	1.870	1.344	1.447	1.411	1.430	1.287	1.465	14.15
68)		n-Butylbenzene	2.418	2.003	2.136	2.088	2.004	1.785	2.072	10.03
69)		1,2-Dichlorobenzene	1.570	1.324	1.416	1.368	1.357	1.223	1.376	8.34
70)		1,2-Dibromo-3-chlor	0.207	0.229	0.230	0.289	0.335	0.340	0.272	21.35
71)		1,2,4-Trichlorobenz	0.878	0.558	0.786	0.802	0.765	0.733	0.754	14.24
72)		Hexachlorobutadiene	0.809	0.556	0.660	0.647	0.547	0.548	0.628	16.32

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111114\19NOV003.D
Acq On : 19 Nov 2011 00:37
Sample : TO15 CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	95	-0.01
2		Dichlorodifluoromethane (12	5.379	6.624	-23.1	105	-0.01
3		Chloromethane	1.681	2.038	-21.2	110	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	4.876	5.990	-22.8	106	0.00
5		Vinyl Chloride	1.490	1.839	-23.4	108	0.00
6		Bromomethane	0.973	1.487	-52.8#	118	0.00
7		Chloroethane	1.011	1.216	-20.3	114	0.00
8		Trichlorofluoromethane (11)	5.543	6.586	-18.8	105	0.00
9	M	1,1-Dichloroethene	3.158	3.487	-10.4	101	0.00
10		Carbon Disulfide	4.713	5.334	-13.2	104	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	2.698	2.942	-9.0	101	0.00
12		Acetone	3.867	4.117	-6.5	104	0.00
13	M	Methylene Chloride	1.521	1.689	-11.0	102	-0.01
14		t-1,2-Dichloroethene	1.722	1.991	-15.6	103	0.00
15		1,1-Dichloroethane	3.503	4.249	-21.3	109	0.00
16		Vinyl Acetate	6.692	8.470	-26.6	114	0.00
17		c-1,2-Dichloroethene	1.795	2.187	-21.8	108	0.00
18		2-Butanone	0.851	1.018	-19.6	103	0.00
19		t-Butyl Methyl Ether	5.187	5.938	-14.5	110	0.00
20	t	Chloroform	4.076	4.712	-15.6	103	0.00
21		1,1,1-Trichloroethane	3.908	4.605	-17.8	118	0.00
22		1,1-Dichloropropene	3.074	3.180	-3.4	91	0.00
23	t	Carbon Tetrachloride	3.339	4.238	-26.9	133	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
25	T	Benzene	1.420	1.463	-3.0	100	-0.01
26	S	1,2-Dichloroethane-d4	0.456	0.426	6.6	94	0.00
27		1,2-Dichloroethane	0.717	0.859	-19.8	107	0.00
28	M	Trichloroethene	0.542	0.593	-9.4	99	0.00
29		1,2-Dichloropropane	0.498	0.574	-15.3	106	0.00
30		Bromodichloromethane	0.927	1.108	-19.5	111	0.00
31		Dibromomethane	0.547	0.559	-2.2	93	0.00
32		c-1,3-Dichloropropene	0.668	0.805	-20.5	127	0.00
33		4-Methyl-2-Pentanone	1.071	1.285	-20.0	110	-0.01
34	S	Toluene-d8	0.858	0.827	3.6	90	0.00
35	M	Toluene	1.562	1.615	-3.4	96	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
37		t-1,3-Dichloropropene	0.773	0.991	-28.2	137	-0.01
38		1,1,2-Trichloroethane	0.776	0.926	-19.3	101	-0.01
39		1,3-Dichloropropane	1.207	1.281	-6.1	92	0.00

(#) = Out of Range

Data File : D:\GCMSB\111114\19NOV003.D Vial: 16
Acq On : 19 Nov 2011 00:37 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO111103.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Nov 04 10:10:04 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Tetrachloroethene	0.908	1.028	-13.2	97	0.00
41		2-Hexanone	0.733	0.941	-28.4	108	0.00
42		Dibromochloromethane	1.168	1.472	-26.0	118	-0.01
43	t	1,2-Dibromoethane	1.166	1.415	-21.4	104	0.00
44		Chlorobenzene	1.621	1.850	-14.1	97	0.00
45		1,1,1,2-Tetrachloroethane	0.770	0.892	-15.8	114	-0.01
46	T	Ethylbenzene	2.738	3.023	-10.4	94	0.00
47	T	p,&m-Xylene	2.235	2.449	-9.6	90	0.00
48	T	o-Xylene	2.436	2.516	-3.3	90	0.00
49		Styrene	1.481	1.600	-8.0	89	0.00
50		Bromoform	0.803	1.050	-30.8#	131	0.00
51		Isopropyl benzene	2.960	2.793	5.6	82	0.00
52	M	1,1,2,2-Tetrachloroethane	1.595	1.929	-20.9	104	0.00
53	S	4-Bromofluorobenzene	0.362	0.347	4.1	85	0.00
54		Benzyl Chloride	0.990	1.060	-7.1	178#	0.00
55		1,2,3-Trichloropropane	0.569	0.623	-9.5	94	0.00
56		n-Propyl Benzene	3.494	3.375	3.4	83	-0.01
57		Bromobenzene	1.554	1.730	-11.3	95	0.00
58		4-Ethyl Toluene	3.068	3.071	-0.1	88	0.00
59	T	1,3,5-Trimethylbenzene	2.605	2.870	-10.2	97	-0.01
60		2-Chlorotoluene	2.645	2.678	-1.2	91	0.00
61		4-Chlorotoluene	2.183	2.219	-1.6	90	0.00
62		tert-Butylbenzene	2.419	2.726	-12.7	98	0.00
63		1,2,4-Trimethylbenzene	2.693	2.913	-8.2	98	0.00
64		sec-Butylbenzene	3.040	3.299	-8.5	92	-0.01
65		p-Isopropyltoluene	2.329	2.656	-14.0	95	0.00
66		1,3-Dichlorobenzene	1.473	1.514	-2.8	93	0.00
67		1,4-Dichlorobenzene	1.465	1.504	-2.7	94	0.00
68		n-Butylbenzene	2.072	2.673	-29.0	113	0.00
69		1,2-Dichlorobenzene	1.376	1.460	-6.1	93	0.00
70		1,2-Dibromo-3-chloropropane	0.272	0.482	-77.2#	190#	-0.01
71		1,2,4-Trichlorobenzene	0.754	1.020	-35.3#	118	-0.01
72		Hexachlorobutadiene	0.628	0.817	-30.1#	112	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL111103.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Nov 04 13:04:46 2011
Response via : Initial Calibration

Calibration Files
1 =03NOV022.D 5 =03NOV026.D 10 =03NOV018.D
25 =03NOV019.D 100 =03NOV020.D 250 =03NOV021.D

		Compound	1	5	10	25	100	250	Avg		%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)		Propene	2.022	1.631	1.460	1.380	1.228	0.935	1.443		25.55
3)		isobutane		0.068	0.066	0.058	0.066	0.055	0.063		9.07
4)		1,3-Butadiene	1.153	1.120	1.006	0.980	0.922	0.787	0.995		13.43
5)		Methanol	3.404	0.986	0.263	0.270	0.064	0.041	0.838		155.57
6)		Acetaldehyde		0.706	0.526	0.433	0.441	0.367	0.494		26.53
7)		Ethanol		0.691	0.558	0.560	0.529	0.442	0.556		16.05
8)		Vinyl Bromide	0.874	1.020	1.049	0.951	0.936	0.760	0.932		11.24
9)		Isopropanol	4.212	2.983	2.509	2.661	3.112	2.510	2.998		21.50
10)		Acrolein	0.554	0.557	0.680	0.666	0.548	0.444	0.575		15.17
11)		t-Butanol	0.218	3.453	2.409	2.730	3.092	2.725	2.438		46.97
12)		Allyl Chloride	2.747	2.860	2.771	2.714	2.341	1.883	2.553		14.65
13)		Acrylonitrile	0.730	1.554	1.383	1.397	1.341	1.107	1.252		23.46
14)		t-Butyl methyl ethe	6.111	5.746	5.135	4.937	5.014	4.167	5.185		13.09
15)		n-Hexane	3.559	3.454	3.145	2.977	2.841	2.206	3.030		16.10
16)		Isopropyl ether	7.788	7.396	7.274	6.759	5.964	4.354	6.589		19.16
17)		t-Butyl ethyl ether	2.728	2.520	1.780	1.874	2.060	1.806	2.128		18.88
18)		Ethyl Acetate		0.434	0.428	0.443	0.477	0.364	0.429		9.59
19)		2,2-Dichloropropane	3.406	3.175	2.141	2.477	2.979	2.473	2.775		17.51
20)		Tetrahydrofuran	1.108	0.958	0.952	0.914	0.868	0.700	0.917		14.52
21)		Cyclohexane	3.528	3.542	3.392	3.177	2.920	2.285	3.141		15.31
22)		2,2,4-Trimethylpent	1.193	1.138	1.083	1.004	0.862	0.643	0.987	E1	20.71
23)	I	1,4-Difluorobenzene	----------ISTD----------								
24)	S	1,2-Dichloroethane-	0.397	0.376	0.034	0.459	0.441	0.462	0.362		45.41
25)		t-Amyl methyl ether	1.386	1.290	1.035	1.148	1.334	1.219	1.235		10.45
26)		Heptane	0.496	0.466	0.460	0.459	0.476	0.416	0.462		5.73
27)		1,4-Dioxane	0.290	0.305	0.327	0.325	0.336		0.317		5.86
28)		2-chloroethylvinyle		0.002	0.018	0.003	0.005	0.005	0.007		100.18
29)	S	Toluene-d8	0.860	0.835	0.863	0.855	0.861	0.865	0.857		1.31
30)		Chlorobenzene-d5	----------ISTD----------								
31)		Cyclohexanone		0.694	0.727	0.747	0.720	0.649	0.707		5.33
32)	S	4-Bromofluorobenzen	0.583	0.557	0.606	0.605	0.667	0.756	0.629		11.42
33)		Dicyclopentadiene		0.023	0.024	0.025	0.009	0.022	0.020		32.20
34)		Naphthalene		1.556	1.965	2.071	1.916	1.853	1.872		10.35
35)		1,2,3-Trichlorobenz				0.001	0.003	0.004	0.003		50.70

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111114\19NOV003.D Vial: 16
Acq On : 19 Nov 2011 00:37 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL111103.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Nov 04 13:04:46 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	95	0.00
2		Propene	1.443	1.690	-17.1	110	0.02
3		isobutane	0.063	0.067	-6.3	96	0.03
4		1,3-Butadiene	0.995	1.226	-23.2	116	0.00
5		Methanol	0.838	0.433	48.3#	156#	0.00
6		Acetaldehyde	0.494	0.457	7.5	82	0.00
7		Ethanol	0.556	1.248	-124.5#	212#	0.00
8		Vinyl Bromide	0.932	1.775	-90.5#	161#	0.00
9		Isopropanol	2.998	4.095	-36.6#	155#	0.00
10		Acrolein	0.575	0.753	-31.0#	105	0.00
11		t-Butanol	2.438	3.612	-48.2#	142	0.12
12		Allyl Chloride	2.553	2.749	-7.7	94	0.00
13		Acrylonitrile	1.252	1.380	-10.2	95	0.00
14		t-Butyl methyl ether	5.185	5.938	-14.5	110	0.00
15		n-Hexane	3.030	3.506	-15.7	106	0.00
16		Isopropyl ether	6.589	7.075	-7.4	92	0.00
17		t-Butyl ethyl ether	2.128	2.384	-12.0	127	0.00
18		Ethyl Acetate	0.429	0.538	-25.4	119	0.00
19		2,2-Dichloropropane	2.775	3.132	-12.9	139	0.00
20		Tetrahydrofuran	0.917	1.079	-17.7	108	0.00
21		Cyclohexane	3.141	3.724	-18.6	104	0.00
22		2,2,4-Trimethylpentane	9.871	10.705	-8.4	94	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
24	S	1,2-Dichloroethane-d4	0.362	0.426	-17.7	1182#	0.00
25		t-Amyl methyl ether	1.235	1.250	-1.2	114	0.00
26		Heptane	0.462	0.490	-6.1	101	0.00
27		1,4-Dioxane	0.317	0.387	-22.1	112	0.00
28		2-chloroethylvinylether	0.007	0.002	71.4#	11#	0.00
29	S	Toluene-d8	0.857	0.819	4.4	89	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
31		Cyclohexanone	0.707	0.919	-30.0	115	0.00
32	S	4-Bromofluorobenzene	0.629	0.610	3.0	92	0.00
33		Dicyclopentadiene	0.020	0.033	-65.0#	128	0.00
34		Naphthalene	1.872	2.725	-45.6#	126	0.00
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AirTECHNOLOGY
Laboratories, Inc.

January 6, 2012

DoD ELAP
ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – ISVE System; E742
Lab Number: C122105-01/03

Enclosed are results for sample(s) received 12/21/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME

Standard	■	48 hours	☐
Same Day	☐	72 hours	☐
24 hours	☐	96 hours	☐
Other:			

DELIVERABLES

EDD	■
EDF	☐
Level 3	☐
Level 4	☐

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	E742
Project Name:	Omega - ISVE System
Report To:	Jaime Dinello
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:	
Bill to:	de maximis, inc.
	1322 Scott Street, Suite 104
	San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 (TAL 2.3)					
C122105-01	OC_SVE_EFF_GAC_121911	12/19/2011	1115	Summa	Air	No/C	X					
-02	OC_SVE_MID_GAC_121911	12/19/2011	1125	Summa	Air	No/C	X					
-03	OC_SVE_INF_GAC_121911	12/19/2011	1135	Summa	Air	No/C	X					

AUTHORIZATION TO PERFORM WORK: A. MILLER	COMPANY: JHA	DATE/TIME: 12/19/11 0800	
SAMPLED BY: A. MILLER	COMPANY: JHA	DATE/TIME: 12/19/11 1100	
RELINQUISHED BY: [signature]	DATE/TIME: 12/21/11 935	RECEIVED BY: DON TONGSON	DATE/TIME: 12/21/11 935
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122105-01			C122105-02			C122105-03		
Client Sample I.D.:	OC_SVE_EFF_GAC_121911			OC_SVE_MID_GAC_121911			OC_SVE_INF_GAC_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/23/11			12/23/11			12/23/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	1.7			1.6			22		
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**
Dichlorodifluoromethane (12)	0.71 J	1.7	0.080	0.77 J	1.6	0.075	1.4 J	22	1.1
Vinyl Chloride	ND	1.7	0.37	ND	1.6	0.35	ND	22	4.9
Trichlorofluoromethane (11)	ND	1.7	0.69	14	1.6	0.65	43	22	9.1
1,1-Dichloroethene	ND	1.7	0.18	220	1.6	0.17	240	22	2.4
Carbon Disulfide	ND	8.4	0.25	ND	7.9	0.23	6.4 J	110	3.3
1,1,2-Cl 1,2,2-F ethane (113)	ND	1.7	0.39	34	1.6	0.36	170	22	5.1
Methylene Chloride	ND	1.7	0.33	1.8	1.6	0.31	ND	22	4.3
1,1-Dichloroethane	ND	1.7	0.20	2.5	1.6	0.19	ND	22	2.6
2-Butanone	ND	1.7	0.43	ND	1.6	0.40	ND	22	5.6
Chloroform	ND	1.7	0.23	10	1.6	0.22	28	22	3.1
1,1,1-Trichloroethane	ND	1.7	0.19	2.3	1.6	0.18	12 J	22	2.5
Carbon Tetrachloride	ND	1.7	0.19	ND	1.6	0.18	ND	22	2.6
Benzene	0.37 J	1.7	0.33	ND	1.6	0.31	ND	22	4.4
1,2-Dichloroethane	ND	1.7	0.44	1.7	1.6	0.41	33	22	5.8
Trichloroethene	ND	1.7	0.26	ND	1.6	0.24	120	22	3.5
Toluene	0.52 J	1.7	0.21	0.36 J	1.6	0.20	6.3 J	22	2.8
1,1,2-Trichloroethane	ND	1.7	0.34	ND	1.6	0.32	ND	22	4.5
Tetrachloroethene	ND	1.7	0.19	0.22 J	1.6	0.18	4,500	22	2.5
o-Xylene	ND	1.7	0.23	ND	1.6	0.22	ND	22	3.1
Isopropanol	ND	8.4	1.1	ND	7.9	1.1	ND	110	15
n-Hexane	ND	8.4	0.42	ND	7.9	0.40	ND	110	5.6
1,4-Dioxane	ND	8.4	1.1	ND	7.9	1.0	ND	110	15
Total VOC's	1.6			290			5,200		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	101%	70-130%	96%	70-130%	103%	70-130%
Toluene-d8	97%	70-130%	92%	70-130%	97%	70-130%
4-Bromofluorobenzene	101%	70-130%	100%	70-130%	94%	70-130%

Table 2-3

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1/6/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122105-01			C122105-02			C122105-03		
Client Sample I.D.:	OC_SVE_EFF_GAC_121911			OC_SVE_MID_GAC_121911			OC_SVE_INF_GAC_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/23/11			12/23/11			12/23/11		
QC Batch No.:	111222MS3A1			111222MS3A1			111222MS3A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	1.7			1.6			22		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.5 J	8.3	0.40	3.8 J	7.8	0.37	6.7 J	110	5.2
Vinyl Chloride	ND	4.3	0.95	ND	4.0	0.89	ND	57	13
Trichlorofluoromethane (11)	ND	9.5	3.9	78	8.9	3.6	240	120	51
1,1-Dichloroethene	ND	6.7	0.72	870	6.3	0.67	940	88	9.5
Carbon Disulfide	ND	26	0.78	ND	25	0.73	20 J	350	10
1,1,2-Cl 1,2,2-F ethane (113)	ND	13	3.0	260	12	2.8	1,300	170	39
Methylene Chloride	ND	5.9	1.1	6.1	5.5	1.1	ND	77	15
1,1-Dichloroethane	ND	6.8	0.81	10.0	6.4	0.76	ND	90	11
2-Butanone	ND	5.0	1.3	ND	4.7	1.2	ND	66	17
Chloroform	ND	8.2	1.1	49	7.7	1.1	140	110	15
1,1,1-Trichloroethane	ND	9.2	1.0	13	8.6	0.98	67 J	120	14
Carbon Tetrachloride	ND	11	1.2	ND	9.9	1.1	ND	140	16
Benzene	1.2 J	5.4	1.1	ND	5.0	0.99	ND	71	14
1,2-Dichloroethane	ND	6.8	1.8	7.0	6.4	1.7	130	90	24
Trichloroethene	ND	9.1	1.4	ND	8.5	1.3	670	120	19
Toluene	2.0 J	6.3	0.81	1.4 J	5.9	0.76	24 J	84	11
1,1,2-Trichloroethane	ND	9.2	1.9	ND	8.6	1.8	ND	120	25
Tetrachloroethene	ND	11	1.3	1.5 J	11	1.2	31,000	150	17
o-Xylene	ND	7.3	1.0	ND	6.8	0.95	ND	97	13
Isopropanol	ND	21	2.8	ND	19	2.6	ND	270	37
n-Hexane	ND	30	1.5	ND	28	1.4	ND	390	20
1,4-Dioxane	ND	30	4.0	ND	28	3.7	ND	400	52
Total VOC's	6.7			1,300			35,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	101%	70-130%	96%	70-130%	103%	70-130%
Toluene-d8	97%	70-130%	92%	70-130%	97%	70-130%
4-Bromofluorobenzene	101%	70-130%	100%	70-130%	94%	70-130%

Table 2-3

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeded QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1/6/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111222MS3A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/22/11		12/22/11		12/22/11						
Data File ID:	22DEC006.D		22DEC004.D		22DEC005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.7	107	10.5	105	1.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.1	101	10.0	100	1.2	70	130	30	Pass
Trichloroethene	0.0	10.0	10.0	100	9.8	98	1.9	70	130	30	Pass
Toluene	0.0	10.0	9.7	97	9.7	97	0.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.6	86	8.9	89	2.9	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 1/4/12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : C:\GCMS-C\data\111219\22DEC029.D
Tune Time : 22 Dec 2011 11:26 pm

Daily Calibration File : C:\GCMS-C\data\111219\22DEC030.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					41033	191886	110846
22DEC031.D	LCS	101	96	98	40499	196240	121574
22DEC032.D	LCSD	105	98	100	42742	194996	119420
22DEC033.D	METHOD BLA	111	96	106	40139	177567	110533
22DEC034.D	C122105-01	101	97	101	38496	171434	111602
22DEC035.D	C122105-02	96	92	100	38373	175027	108799
22DEC036.D	C122105-03	103	97	94	39009	170709	117267

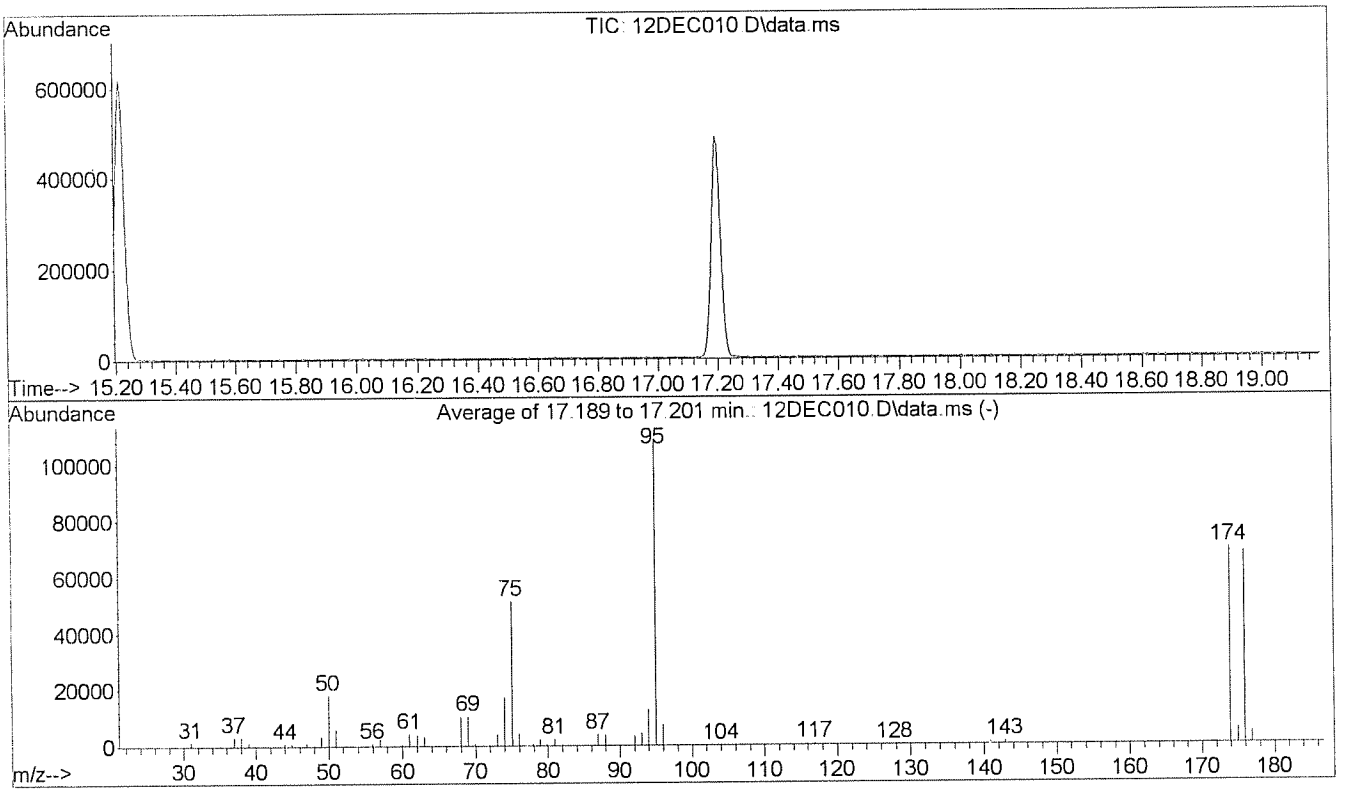
(fails) - fails 24hr time check * - fails criteria

Created: Thu Jan 05 17:54:04 2012 Instrument #1

Data Path : C:\GCMS-C\data\111212\
Data File : 12DEC010.D
Acq On : 12 Dec 2011 8:41 am
Operator : DT
Sample : BFB
Misc : 150ML
ALS Vial : 3 Sample Multiplier: 0.2

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011



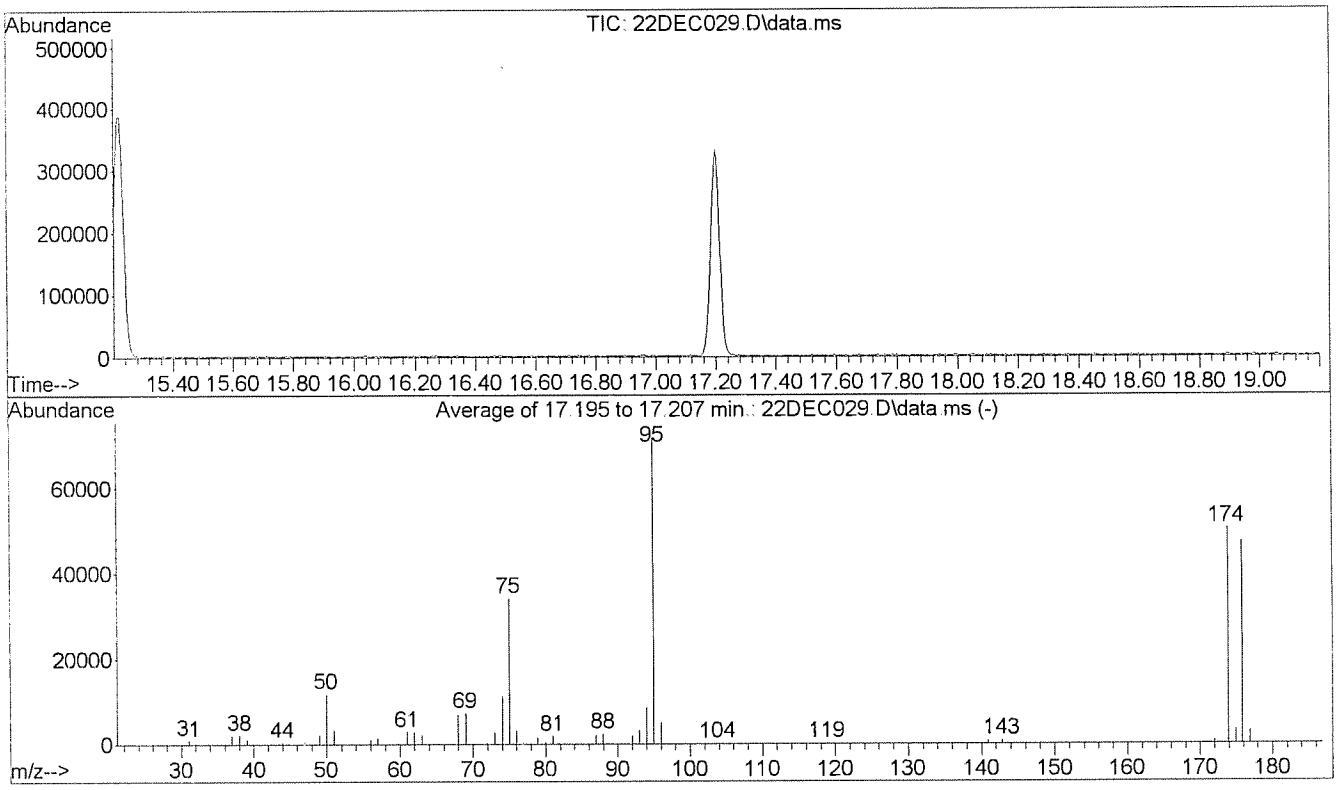
AutoFind: Scans 2239, 2240, 2241; Background Corrected with Scan 2229

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	18101	PASS
75	95	30	60	47.3	51386	PASS
95	95	100	100	100.0	108648	PASS
96	95	5	9	6.8	7406	PASS
173	174	0.00	2	0.6	409	PASS
174	95	50	100	64.0	69485	PASS
175	174	5	9	7.9	5523	PASS
176	174	93	101	98.1	68176	PASS
177	176	5	9	6.0	4065	PASS

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC029.D
Acq On : 22 Dec 2011 11:26 pm
Operator : DT
Sample : BFB
Misc : 150 ML
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011



AutoFind: Scans 2240, 2241, 2242; Background Corrected with Scan 2232

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	11826	PASS
75	95	30	60	47.5	34197	PASS
95	95	100	100	100.0	71978	PASS
96	95	5	9	6.8	4921	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.0	50413	PASS
175	174	5	9	6.6	3349	PASS
176	174	93	101	93.8	47290	PASS
177	176	5	9	6.3	2978	PASS

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011
Response Via : Initial Calibration

Calibration Files
1 =12DEC039.D 5 =12DEC038.D 10 =12DEC022.D 25 =12DEC023.D
100 =12DEC024.D 250 =12DEC025.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluo...	7.326	7.093	7.651	6.731	5.659	2.813	6.212	28.99
3)		Chloromethane	2.676	1.889	1.935	1.746	1.622	1.052	1.820	28.92
4)		1,2-Cl-1,1,2,2...	7.128	6.817	7.362	6.642	5.644	3.192	6.131	25.39
5)		Vinyl Chloride	1.744	1.965	1.948	1.824	1.729	1.171	1.730	16.84
6)		Bromomethane	1.724	1.364	1.299	1.286	1.087	0.837	1.266	23.34
7)		Chloroethane	0.836	0.757	0.821	0.816	0.693	0.520	0.740	16.29
8)		Trichlorofluor...	7.117	6.634	7.403	5.250	6.093	3.529	6.005	23.90
9)	M	1,1-Dichloroet...	4.198	3.961	4.202	3.807	3.353	2.090	3.602	22.33
10)		Carbon Disulfide	7.269	6.847	7.206	6.683	5.626	3.265	6.149	24.91
11)		1,1,2-Cl 1,2,2...	3.652	3.442	3.717	3.388	3.129	1.987	3.219	19.84
12)		Acetone	4.809	3.781	3.391	2.938	2.587	1.667	3.196	33.59
13)	M	Methylene Chlo...	2.216	2.036	2.321	2.043	1.947	1.282	1.974	18.51
14)		t-1,2-Dichloro...	1.960	2.114	2.264	2.174	2.084	1.382	1.996	15.90
15)		1,1-Dichloroet...	4.338	4.333	4.610	4.222	3.860	2.366	3.955	20.62
16)		Vinyl Acetate	2.497	2.556	2.798	2.611	2.635	1.816	2.485	13.81
17)		c-1,2-Dichloro...	2.146	2.306	2.398	2.315	2.162	1.385	2.119	17.56
18)		2-Butanone	1.073	1.176	1.191	1.146	1.038	0.633	1.043	20.09
19)		t-Butyl Methyl...	4.074	4.567	4.633	4.335	3.771	2.608	3.998	18.82
20)	t	Chloroform	5.097	5.068	5.363	5.018	4.625	2.810	4.663	20.12
21)		1,1,1-Trichlor...	4.358	4.531	5.152	4.911	4.822	3.094	4.478	16.38
22)		1,1-Dichloropr...	2.778	2.815	3.355	3.146	2.885	1.797	2.796	19.21
23)	t	Carbon Tetrach...	1.301	2.454	3.123	3.393	3.962	2.632	2.811	32.60
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.673	1.571	1.647	1.521	1.438	1.062	1.486	15.09
26)	S	1,2-Dichloroet...	0.301	0.327	0.315	0.327	0.369	0.451	0.348	15.86
27)		1,2-Dichloroet...	0.591	0.640	0.658	0.631	0.614	0.529	0.611	7.53
28)	M	Trichloroethene	0.989	0.830	0.801	0.718	0.675	0.531	0.757	20.50
29)		1,2-Dichloropr...	0.523	0.543	0.569	0.542	0.532	0.450	0.526	7.71
30)		Bromodichlorom...	0.743	0.911	0.972	0.962	0.981	0.787	0.893	11.51
31)		Dibromomethane	0.408	0.500	0.524	0.517	0.511	0.437	0.483	9.97
32)		c-1,3-Dichloro...	0.431	0.588	0.633	0.671	0.760	0.640	0.620	17.57
33)		4-Methyl-2-Pen...	0.790	0.837	0.837	0.808	0.841	0.692	0.801	7.14
34)	S	Toluene-d8	0.777	0.779	0.750	0.798	0.800	0.857	0.794	4.50
35)	M	Toluene	1.678	1.686	1.666	1.665	1.632	1.197	1.587	12.11
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloro...	0.360	0.567	0.644	0.767	0.991	0.859	0.698	32.08
38)		1,1,2-Trichlor...	1.037	1.099	1.104	1.012	0.977	0.777	1.001	12.04
39)		1,3-Dichloropr...	1.132	1.247	1.397	1.325	1.269	1.001	1.228	11.56
40)		Tetrachloroethene	1.141	1.204	1.214	1.123	1.087	0.856	1.104	11.86
41)		2-Hexanone	0.681	0.831	0.855	0.808	0.826	0.689	0.782	9.76

Method Path : C:\GCMS-C\methods\
Method File : TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

42)		Dibromochlorom...	0.916	1.297	1.333	1.366	1.459	1.131	1.250	15.69
43)	t	1,2-Dibromoethane	1.283	1.431	1.441	1.390	1.444	1.110	1.350	9.79
44)		Chlorobenzene	2.054	2.107	1.944	1.863	1.871	1.420	1.877	13.00
45)		1,1,1,2-Tetrac...	0.593	0.765	0.865	0.849	0.906	0.757	0.789	14.22
46)	T	Ethylbenzene	2.598	2.813	2.687	2.688	2.599	1.792	2.530	14.61
47)	T	p,&m-Xylene	2.140	2.292	2.081	1.965	1.729	1.047	1.876	23.86
48)	T	o-Xylene	2.031	2.168	1.862	1.836	1.917	1.492	1.884	12.09
49)		Styrene	1.242	1.305	1.262	1.284	1.436	1.175	1.284	6.77
50)		Bromoform	0.587	0.952	0.886	0.958	1.177	0.963	0.920	20.75
51)		Isopropyl benzene	1.953	2.008	2.179	2.079	2.005	1.584	1.968	10.35
52)	M	1,1,2,2-Tetrac...	0.981	1.602	1.217	1.301	1.540	1.259	1.317	17.23
53)	S	4-Bromofluorob...	0.344	0.335	0.342	0.342	0.337	0.334	0.339	1.21
54)		Benzyl Chloride	0.993	0.657	0.428	0.426	1.218	1.157	0.813	43.88
55)		1,2,3-Trichlor...	0.487	0.563	0.584	0.546	0.562	0.495	0.539	7.31
56)		n-Propyl Benzene	2.702	2.571	2.748	2.359	2.187	1.542	2.351	19.12
57)		Bromobenzene	1.494	1.467	1.588	1.486	1.436	1.084	1.426	12.28
58)		4-Ethyl Toluene	3.523	3.649	2.888	2.456	2.324	1.700	2.757	27.12
59)	T	1,3,5-Trimethy...	3.331	3.902	3.129	2.798	2.592	1.647	2.900	26.34
60)		2-Chlorotoluene	2.367	2.298	2.303	2.123	1.955	1.383	2.072	17.83
61)		4-Chlorotoluene	2.121	1.998	2.175	1.884	1.825	1.323	1.888	16.28
62)		tert-Butylbenzene	2.329	2.624	2.581	2.427	2.296	1.683	2.323	14.63
63)		1,2,4-Trimethy...	3.231	3.930	2.961	2.683	2.563	1.623	2.832	27.07
64)		sec-Butylbenzene	3.196	3.199	3.212	2.600	2.065	1.430	2.617	28.30
65)		p-Isopropyltol...	2.289	2.732	2.857	2.465	1.911	1.317	2.262	25.27
66)		1,3-Dichlorobe...	2.059	1.883	1.339	1.158	1.239	0.947	1.438	30.36
67)		1,4-Dichlorobe...	2.141	1.958	1.422	1.161	1.246	0.940	1.478	31.99
68)		n-Butylbenzene	2.442	3.015	3.087	2.732	2.182	1.402	2.477	25.34
69)		1,2-Dichlorobe...	1.894	1.724	1.182	0.993	1.127	0.899	1.303	31.29
70)		1,2-Dibromo-3-...	0.304	0.258	0.226	0.231	0.343	0.331	0.282	17.93
71)		1,2,4-Trichlor...	0.891	1.045	0.637	0.659	1.276	0.987	0.916	26.56
72)		Hexachlorobuta...	0.880	0.930	0.561	0.515	0.717	0.564	0.695	25.58

(#) = Out of Range

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : AL111212.M
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:28:01 2011
Response Via : Initial Calibration

Calibration Files
1 =12DEC039.D 5 =12DEC038.D 10 =12DEC022.D 25 =12DEC023.D
100 =12DEC024.D 250 =12DEC025.D

		Compound	1	5	10	25	100	250	Avg		%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)		Propene	1.592	1.493	1.467	1.371	1.227	0.763	1.319		22.68
3)		isobutane	1.728	1.357	1.634	1.271	1.471	0.941	1.400		20.09
4)		1,3-Butadiene	0.774	0.965	1.032	0.980	0.959	0.689	0.900		15.08
5)		Methanol		1.151	0.607	0.538	0.419	0.264	0.596		56.48
6)		Acetaldehyde		0.948	0.756	0.657	0.524	0.326	0.642		36.52
7)		Ethanol		0.797	0.797	0.587	0.730		0.728		13.60
8)		Vinyl Bromide	1.852	1.307	2.131	1.473	1.907	0.887	1.593		28.76
9)		Isopropanol		3.147	3.068	2.876	2.662	1.763	2.703		20.64
10)		Acrolein	0.643	0.830	0.762	0.697	0.714	0.516	0.694		15.48
11)		t-Butanol	2.587	2.873	2.931	2.868	2.396	1.360	2.503		23.83
12)		Allyl Chloride	1.258	1.520	1.684	1.686	1.724	1.143	1.503		16.44
13)		Acrylonitrile	0.935	1.170	1.395	1.381	1.375	0.914	1.195		18.88
14)		t-Butyl methyl...	4.074	4.567	4.633	4.335	3.772	2.614	3.999		18.75
15)		n-Hexane	3.005	3.301	3.637	3.526	3.335	2.147	3.159		17.12
16)		Isopropyl ether	4.794	5.059	5.713	5.417	5.045	2.974	4.834		19.99
17)		t-Butyl ethyl ...	1.174	1.564	1.510	1.697	1.717	1.328	1.498		14.19
18)		Ethyl Acetate		0.395	0.479	0.521	0.507	0.340	0.448		17.36
19)		2,2-Dichloropr...	0.490	0.743	0.937	1.116	1.455	1.260	1.000		35.18
20)		Tetrahydrofuran	1.031	1.077	1.143	1.102	1.061	0.728	1.024		14.64
21)		Cyclohexane	2.867	3.165	3.627	3.439	3.261	2.059	3.070		18.16
22)		2,2,4-Trimethy...	0.870	0.899	1.051	0.986	0.880	0.496	0.864	E1	22.37
23)	I	1,4-Difluorobenzene	----------ISTD----------								
24)	S	1,2-Dichloroet...	0.301	0.326	0.315	0.329	0.369	0.449	0.348		15.57
25)		t-Amyl methyl ...	0.541	0.630	0.596	0.676	0.745	0.775	0.660		13.54
26)		Heptane	0.349	0.413	0.430	0.433	0.452	0.402	0.413		8.72
27)		1,4-Dioxane	0.343	0.368	0.380	0.373	0.400	0.340	0.367		6.24
28)		2-chloroethylv...					0.001	0.001	0.001		11.84
29)	S	Toluene-d8	0.777	0.779	0.750	0.798	0.800	0.857	0.794		4.50
30)		Chlorobenzene-d5	----------ISTD----------								
31)		Cyclohexanone	0.467	0.628	0.773	0.768	0.786	0.655	0.679		18.19
32)	S	4-Bromofluorob...	0.344	0.336	0.342	0.342	0.337	0.336	0.339		1.04
33)		Dicyclopentadiene		0.009	0.015	0.013	0.012	0.011	0.012		18.24
34)		Naphthalene	1.793	2.449	1.427	1.575	3.074	1.990	2.051		29.98
35)		1,2,3-Trichlor...	0.891	1.046	0.637	0.658	1.278	0.993	0.917		26.64

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC030.D
Acq On : 23 Dec 2011 12:04 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 23 00:30:46 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	79	-0.02
2		Dichlorodifluoromethane (12	6.212	7.200	-15.9	74	0.00
3		Chloromethane	1.820	1.743	4.2	71	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.131	6.664	-8.7	71	-0.01
5		Vinyl Chloride	1.730	1.687	2.5	68	0.00
6		Bromomethane	1.266	1.187	6.2	72	0.00
7		Chloroethane	0.740	0.780	-5.4	75	-0.01
8		Trichlorofluoromethane (11)	6.005	7.211	-20.1	77	-0.02
9	M	1,1-Dichloroethene	3.602	3.903	-8.4	73	-0.01
10		Carbon Disulfide	6.149	6.379	-3.7	70	-0.01
11		1,1,2-Cl 1,2,2-F ethane (11	3.219	3.482	-8.2	74	-0.02
12		Acetone	3.196	3.179	0.5	74	-0.02
13	M	Methylene Chloride	1.974	1.978	-0.2	67	-0.02
14		t-1,2-Dichloroethene	1.996	1.921	3.8	67	-0.02
15		1,1-Dichloroethane	3.955	4.069	-2.9	69	-0.02
16		Vinyl Acetate	2.485	2.310	7.0	65	-0.02
17		c-1,2-Dichloroethene	2.119	2.058	2.9	67	-0.02
18		2-Butanone	1.043	1.005	3.6	66	-0.02
19		t-Butyl Methyl Ether	3.998	3.329	16.7	56#	-0.01
20	t	Chloroform	4.663	4.867	-4.4	71	-0.02
21		1,1,1-Trichloroethane	4.478	4.538	-1.3	69	-0.01
22		1,1-Dichloropropene	2.796	2.955	-5.7	69	-0.01
23	t	Carbon Tetrachloride	2.811	2.879	-2.4	72	-0.02
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	75	-0.01
25	T	Benzene	1.486	1.509	-1.5	69	-0.02
26	S	1,2-Dichloroethane-d4	0.348	0.335	3.7	80	-0.02
27		1,2-Dichloroethane	0.611	0.628	-2.8	72	-0.01
28	M	Trichloroethene	0.757	0.773	-2.1	72	-0.01
29		1,2-Dichloropropane	0.526	0.518	1.5	68	-0.01
30		Bromodichloromethane	0.893	0.950	-6.4	73	-0.01
31		Dibromomethane	0.483	0.498	-3.1	71	-0.01
32		c-1,3-Dichloropropene	0.620	0.531	14.4	63	0.00
33		4-Methyl-2-Pentanone	0.801	0.760	5.1	68	0.00
34	S	Toluene-d8	0.794	0.705	11.2	71	-0.01
35	M	Toluene	1.587	1.427	10.1	64	-0.01
36	I	Chlorobenzene-d5	1.000	1.000	0.0	70	0.00

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC030.D
Acq On : 23 Dec 2011 12:04 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 23 00:30:46 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 13 12:09:55 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37		t-1,3-Dichloropropene	0.698	0.538	22.9	58#	0.00
38		1,1,2-Trichloroethane	1.001	1.118	-11.7	71	0.00
39		1,3-Dichloropropane	1.228	1.358	-10.6	68	0.00
40		Tetrachloroethene	1.104	1.197	-8.4	69	-0.01
41		2-Hexanone	0.782	0.788	-0.8	64	0.00
42		Dibromochloromethane	1.250	1.397	-11.8	73	0.00
43	t	1,2-Dibromoethane	1.350	1.399	-3.6	68	0.00
44		Chlorobenzene	1.877	1.750	6.8	63	0.00
45		1,1,1,2-Tetrachloroethane	0.789	0.883	-11.9	71	0.00
46	T	Ethylbenzene	2.530	2.227	12.0	58#	0.00
47	T	p,&m-Xylene	1.876	1.842	1.8	62	0.00
48	T	o-Xylene	1.884	1.601	15.0	60	0.00
49		Styrene	1.284	1.057	17.7	58#	0.00
50		Bromoform	0.920	0.870	5.4	69	0.00
51		Isopropyl benzene	1.968	1.978	-0.5	63	0.00
52	M	1,1,2,2-Tetrachloroethane	1.317	1.033	21.6	59#	0.00
53	S	4-Bromofluorobenzene	0.339	0.330	2.7	67	0.00
54		Benzyl Chloride	0.813	0.348	57.2#	57#	0.00
55		1,2,3-Trichloropropane	0.539	0.564	-4.6	68	0.00
56		n-Propyl Benzene	2.351	2.703	-15.0	69	0.00
57		Bromobenzene	1.426	1.420	0.4	62	0.00
58		4-Ethyl Toluene	2.757	2.995	-8.6	72	0.00
59	T	1,3,5-Trimethylbenzene	2.900	3.253	-12.2	73	0.00
60		2-Chlorotoluene	2.072	2.320	-12.0	70	0.00
61		4-Chlorotoluene	1.888	2.165	-14.7	70	0.00
62		tert-Butylbenzene	2.323	2.556	-10.0	69	0.00
63		1,2,4-Trimethylbenzene	2.832	3.299	-16.5	78	0.00
64		sec-Butylbenzene	2.617	3.338	-27.6	73	0.00
65		p-Isopropyltoluene	2.262	3.010	-33.1#	74	0.00
66		1,3-Dichlorobenzene	1.438	1.418	1.4	74	0.00
67		1,4-Dichlorobenzene	1.478	1.440	2.6	71	0.00
68		n-Butylbenzene	2.477	3.213	-29.7	73	0.00
69		1,2-Dichlorobenzene	1.303	1.261	3.2	75	0.00
70		1,2-Dibromo-3-chloropropane	0.282	0.218	22.7	67	0.00
71		1,2,4-Trichlorobenzene	0.916	0.643	29.8	71	0.00
72		Hexachlorobutadiene	0.695	0.636	8.5	79	0.00

Data Path : C:\GCMS-C\data\111219\
Data File : 22DEC030.D
Acq On : 23 Dec 2011 12:04 am
Operator : DT
Sample : CCV
Misc : 50 ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:01:13 2011
Quant Method : C:\GCMS-C\methods\AL111212.M
Quant Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
QLast Update : Tue Dec 27 13:28:01 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	79	0.00
2		Propene	1.319	1.338	-1.4	72	-0.02
3		isobutane	1.400	1.753	-25.2	84	-0.02
4		1,3-Butadiene	0.900	0.845	6.1	64	-0.03
5		Methanol	0.596	0.654	-9.7	85	-0.04
6		Acetaldehyde	0.642	0.671	-4.5	70	-0.05
7		Ethanol	0.728	1.190	-63.5#	117	-0.01
8		Vinyl Bromide	1.593	1.854	-16.4	68	-0.02
9		Isopropanol	2.703	2.614	3.3	67	-0.01
10		Acrolein	0.694	0.673	3.0	69	-0.02
11		t-Butanol	2.503	2.277	9.0	61	-0.04
12		Allyl Chloride	1.503	1.375	8.5	64	-0.01
13		Acrylonitrile	1.195	1.174	1.8	66	-0.02
14		t-Butyl methyl ether	3.999	3.329	16.8	56	-0.01
15		n-Hexane	3.159	3.001	5.0	65	0.00
16		Isopropyl ether	4.834	4.705	2.7	65	-0.01
17		t-Butyl ethyl ether	1.498	0.912	39.1#	47#	0.00
18		Ethyl Acetate	0.448	0.303	32.4#	50#	0.00
19		2,2-Dichloropropane	1.000	0.522	47.8#	44#	0.00
20		Tetrahydrofuran	1.024	0.918	10.4	63	-0.02
21		Cyclohexane	3.070	2.977	3.0	64	0.00
22		2,2,4-Trimethylpentane	8.636	8.735	-1.1	65	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	75	0.00
24	S	1,2-Dichloroethane-d4	0.348	0.335	3.7	80	0.00
25		t-Amyl methyl ether	0.660	0.380	42.4#	48#	0.00
26		Heptane	0.413	0.360	12.8	63	0.00
27		1,4-Dioxane	0.367	0.331	9.8	65	0.00
28		2-chloroethylvinylether	0.001	0.000	100.0#	0#	-11.72#
29	S	Toluene-d8	0.794	0.705	11.2	71	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	70	0.00
31		Cyclohexanone	0.679	0.707	-4.1	64	0.00
32	S	4-Bromofluorobenzene	0.339	0.331	2.4	67	0.00
33		Dicyclopentadiene	0.012	0.010	16.7	49#	-0.01
34		Naphthalene	2.051	1.376	32.9#	67	0.00
35		1,2,3-Trichlorobenzene	0.917	0.644	29.8	71	0.00

AirTECHNOLOGY
Laboratories, Inc.

October 24, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Ken Hewlett
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – ISVE System; E-742
Lab Number: C101005-01/10

Enclosed are results for sample(s) received 10/10/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 1 OF 1
Standard ■	48 hours ☐	EDD ■	Condition upon receipt:
Same Day ☐	72 hours ☐	EDF ☐	Sealed Yes ☐ No ☐
24 hours ☐	96 hours ☐	Level 3 ☐	Intact Yes ☐ No ☐
Other:		Level 4 ☐	Chilled _____ deg C

Project No.:	E742		
Project Name:	Omega - ISVE System		
Report To:	Ken Hewlett	**BILLING**	
Company:	de maximis, Inc.	***P.O. No.:***	
Street:	1322 Scott Street, Suite 104	***Bill to:***	de maximis, inc.
City/State/Zip:	San Diego, CA 92106		1322 Scott Street, Suite 104
Phone& Fax:	(310) 926-5368		San Diego, CA 92106
e-mail:	khewlett@demaximis.com		

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 (TAL 2.4)					
C101005-01	OC_SVE_VE-1S_101011	10/10/2011	1230	Summa	Air	No/C	x					
-02	OC_SVE_VE-5S_101011	10/10/2011	1235	Summa	Air	No/C	x					
-03	OC_SVE_VE-6S_101011	10/10/2011	1240	Summa	Air	No/C	x					
-04	OC_SVE_VE-8S_101011	10/10/2011	1250	Summa	Air	No/C	x					
-05	OC_SVE_VE-9S_101011	10/10/2011	1255	Summa	Air	No/C	x					
-06	OC_SVE_VE-10S_101011	10/10/2011	1305	Summa	Air	No/C	x					
-07	OC_SVE_VE-11S_101011	10/10/2011	1310	Summa	Air	No/C	x					
-08	OC_SVE_VE-12S_101011	10/10/2011	1320	Summa	Air	No/C	x					
-09	OC_SVE_VE-14S_101011	10/10/2011	1325	Summa	Air	No/C	x					
-10	OC_SVE_VE-15S_101011	10/10/2011	1340	Summa	Air	No/C	x					

AUTHORIZATION TO PERFORM WORK: Cerlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 10/10/11 1620	
SAMPLED BY: Cerlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 10/10/11 1620	
RELINQUISHED BY: [signature] 10/10/11	DATE/TIME: 1620	RECEIVED BY: DON TIONGSON 10/10/11	DATE/TIME: 1620
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101005-01			C101005-02			C101005-03			C101005-04		
Client Sample I.D.:	OC_SVE_VE-1S_101011			OC_SVE_VE-5S_101011			OC_SVE_VE-6S_101011			OC_SVE_VE-8S_101011		
Date Sampled:	10/10/11			10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/14/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111014MS2A1			111014MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			2.1			2.1			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.65 J	1.9	0.092	ND	2.1	0.100	0.56 J	2.1	0.100	ND	1.7	0.083
Chloromethane	0.73 J	3.9	0.65	ND	4.2	0.70	0.75 J	4.2	0.70	ND	3.5	0.58
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.9	0.25	ND	2.1	0.27	ND	2.1	0.27	ND	1.7	0.22
Vinyl Chloride	ND	1.9	0.43	ND	2.1	0.47	ND	2.1	0.47	ND	1.7	0.39
Bromomethane	ND	1.9	0.22	ND	2.1	0.23	ND	2.1	0.23	ND	1.7	0.19
Chloroethane	ND	1.9	0.70	ND	2.1	0.76	ND	2.1	0.76	ND	1.7	0.63
Trichlorofluoromethane (11)	ND	1.9	0.80	ND	2.1	0.86	ND	2.1	0.86	ND	1.7	0.71
1,1-Dichloroethene	ND	1.9	0.21	ND	2.1	0.23	ND	2.1	0.23	ND	1.7	0.19
Carbon Disulfide	ND	9.7	0.29	ND	11	0.31	ND	11	0.31	4.8 J	8.7	0.26
1,1,2-Cl 1,2,2-F ethane (113)	ND	1.9	0.45	ND	2.1	0.48	ND	2.1	0.48	ND	1.7	0.40
Acetone	20	9.7	0.61	27	11	0.66	18	11	0.66	22	8.7	0.55
Methylene Chloride	ND	1.9	0.38	ND	2.1	0.41	ND	2.1	0.41	ND	1.7	0.34
t-1,2-Dichloroethene	ND	1.9	0.31	ND	2.1	0.34	ND	2.1	0.34	ND	1.7	0.28
1,1-Dichloroethane	ND	1.9	0.23	ND	2.1	0.25	ND	2.1	0.25	ND	1.7	0.21
Vinyl Acetate	ND	9.7	0.34	ND	11	0.37	ND	11	0.37	ND	8.7	0.30
c-1,2-Dichloroethene	ND	1.9	0.43	ND	2.1	0.46	ND	2.1	0.46	ND	1.7	0.38
2-Butanone	ND	1.9	0.49	1.6 J	2.1	0.53	2.1	2.1	0.53	2.8	1.7	0.44
t-Butyl Methyl Ether (MTBE)	ND	1.9	0.39	ND	2.1	0.42	ND	2.1	0.42	ND	1.7	0.35
Chloroform	ND	1.9	0.27	ND	2.1	0.29	ND	2.1	0.29	ND	1.7	0.24
1,1,1-Trichloroethane	ND	1.9	0.22	ND	2.1	0.24	ND	2.1	0.24	ND	1.7	0.20
Carbon Tetrachloride	ND	1.9	0.22	ND	2.1	0.24	ND	2.1	0.24	ND	1.7	0.20
Benzene	0.57 J	1.9	0.38	0.73 J	2.1	0.41	0.60 J	2.1	0.41	0.90 J	1.7	0.34
1,2-Dichloroethane	ND	1.9	0.51	ND	2.1	0.55	ND	2.1	0.55	ND	1.7	0.46
Trichloroethene	ND	1.9	0.30	ND	2.1	0.33	ND	2.1	0.33	ND	1.7	0.27
1,2-Dichloropropane	ND	1.9	0.25	ND	2.1	0.27	ND	2.1	0.27	ND	1.7	0.22
Bromodichloromethane	ND	1.9	0.29	ND	2.1	0.32	ND	2.1	0.32	ND	1.7	0.26
c-1,3-Dichloropropene	ND	1.9	0.44	ND	2.1	0.47	ND	2.1	0.47	ND	1.7	0.39
4-Methyl-2-Pentanone	ND	1.9	0.092	ND	2.1	0.099	ND	2.1	0.099	ND	1.7	0.082
Toluene	1.7 J	1.9	0.25	1.9 J	2.1	0.27	1.7 J	2.1	0.27	1.8	1.7	0.22
t-1,3-Dichloropropene	ND	1.9	0.24	ND	2.1	0.26	ND	2.1	0.26	ND	1.7	0.21
1,1,2-Trichloroethane	ND	1.9	0.40	ND	2.1	0.43	ND	2.1	0.43	ND	1.7	0.36
Tetrachloroethene	ND	1.9	0.22	ND	2.1	0.24	ND	2.1	0.24	ND	1.7	0.20
2-Hexanone	ND	1.9	0.20	ND	2.1	0.21	ND	2.1	0.21	ND	1.7	0.18
Dibromochloromethane	ND	1.9	0.33	ND	2.1	0.36	ND	2.1	0.36	ND	1.7	0.30
1,2-Dibromoethane	ND	1.9	0.25	ND	2.1	0.28	ND	2.1	0.28	ND	1.7	0.23
Chlorobenzene	ND	1.9	0.28	ND	2.1	0.30	ND	2.1	0.30	ND	1.7	0.25

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101005-01			C101005-02			C101005-03			C101005-04		
Client Sample I.D.:	OC_SVE_VE-1S_101011			OC_SVE_VE-5S_101011			OC_SVE_VE-6S_101011			OC_SVE_VE-8S_101011		
Date Sampled:	10/10/11			10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/14/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111014MS2A1			111014MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			2.1			2.1			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	1.9	0.059	ND	2.1	0.064	ND	2.1	0.064	ND	1.7	0.053
p,&m-Xylene	0.51 J	1.9	0.44	0.60 J	2.1	0.48	0.65 J	2.1	0.48	0.60 J	1.7	0.40
o-Xylene	ND	1.9	0.27	ND	2.1	0.29	ND	2.1	0.29	0.30 J	1.7	0.24
Isopropanol	ND	9.7	1.3	ND	11	1.4	ND	11	1.4	1.5 J	8.7	1.2
n-Hexane	ND	9.7	0.49	0.57 J	11	0.53	ND	11	0.53	0.47 J	8.7	0.44
1,4-Dioxane	ND	9.7	1.3	ND	11	1.4	ND	11	1.4	ND	8.7	1.1
Total VOC's	24			32			24			35		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	109%	70-130%	106%	70-130%	104%	70-130%	104%	70-130%
Toluene-d8	85%	70-130%	103%	70-130%	78%	70-130%	98%	70-130%
4-Bromofluorobenzene	86%	70-130%	80%	70-130%	92%	70-130%	84%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 10/24/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101005-05			C101005-06			C101005-07			C101005-08		
Client Sample I.D.:	OC_SVE_VE-9S_101011			OC_SVE_VE-10S_101011			OC_SVE_VE-11S_101011			OC_SVE_VE-12S_101011		
Date Sampled:	10/10/11			10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/18/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111018MS2A1			111014MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			15			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.67 J	2.1	0.100	ND	2.1	0.100	ND	15	0.70	0.76 J	2.1	0.100
Chloromethane	ND	4.2	0.70	1.3 J	4.2	0.70	ND	29	4.9	ND	4.2	0.70
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.1	0.27	ND	2.1	0.27	ND	15	1.9	ND	2.1	0.27
Vinyl Chloride	ND	2.1	0.47	ND	2.1	0.47	ND	15	3.3	ND	2.1	0.47
Bromomethane	ND	2.1	0.23	ND	2.1	0.23	ND	15	1.6	ND	2.1	0.23
Chloroethane	ND	2.1	0.76	ND	2.1	0.76	ND	15	5.3	ND	2.1	0.76
Trichlorofluoromethane (11)	8.1	2.1	0.86	ND	2.1	0.86	76	15	6.0	ND	2.1	0.86
1,1-Dichloroethene	37	2.1	0.23	ND	2.1	0.23	460	15	1.6	ND	2.1	0.23
Carbon Disulfide	ND	11	0.31	ND	11	0.31	ND	74	2.2	ND	11	0.31
1,1,2-Cl 1,2,2-F ethane (113)	33	2.1	0.48	ND	2.1	0.48	270	15	3.4	ND	2.1	0.48
Acetone	23	11	0.66	42	11	0.66	65 J	74	4.6	14	11	0.66
Methylene Chloride	ND	2.1	0.41	ND	2.1	0.41	10 J	15	2.9	ND	2.1	0.41
t-1,2-Dichloroethene	ND	2.1	0.34	ND	2.1	0.34	ND	15	2.4	ND	2.1	0.34
1,1-Dichloroethane	0.31 J	2.1	0.25	ND	2.1	0.25	8.1 J	15	1.7	ND	2.1	0.25
Vinyl Acetate	ND	11	0.37	ND	11	0.37	ND	74	2.6	ND	11	0.37
c-1,2-Dichloroethene	ND	2.1	0.46	ND	2.1	0.46	ND	15	3.2	ND	2.1	0.46
2-Butanone	3.2	2.1	0.53	2.2	2.1	0.53	ND	15	3.7	ND	2.1	0.53
t-Butyl Methyl Ether (MTBE)	ND	2.1	0.42	ND	2.1	0.42	ND	15	2.9	ND	2.1	0.42
Chloroform	3.1	2.1	0.29	ND	2.1	0.29	86	15	2.0	ND	2.1	0.29
1,1,1-Trichloroethane	ND	2.1	0.24	ND	2.1	0.24	2.0 J	15	1.7	ND	2.1	0.24
Carbon Tetrachloride	ND	2.1	0.24	ND	2.1	0.24	ND	15	1.7	ND	2.1	0.24
Benzene	0.62 J	2.1	0.41	0.85 J	2.1	0.41	2.9 J	15	2.9	0.57 J	2.1	0.41
1,2-Dichloroethane	ND	2.1	0.55	ND	2.1	0.55	39	15	3.9	ND	2.1	0.55
Trichloroethene	10	2.1	0.33	ND	2.1	0.33	240	15	2.3	ND	2.1	0.33
1,2-Dichloropropane	ND	2.1	0.27	ND	2.1	0.27	ND	15	1.9	ND	2.1	0.27
Bromodichloromethane	ND	2.1	0.32	ND	2.1	0.32	ND	15	2.2	ND	2.1	0.32
c-1,3-Dichloropropene	ND	2.1	0.47	ND	2.1	0.47	ND	15	3.3	ND	2.1	0.47
4-Methyl-2-Pentanone	ND	2.1	0.099	ND	2.1	0.099	ND	15	0.70	ND	2.1	0.099
Toluene	1.5 J	2.1	0.27	2.6	2.1	0.27	3.3 J	15	1.9	1.5 J	2.1	0.27
t-1,3-Dichloropropene	ND	2.1	0.26	ND	2.1	0.26	ND	15	1.8	ND	2.1	0.26
1,1,2-Trichloroethane	ND	2.1	0.43	ND	2.1	0.43	ND	15	3.0	ND	2.1	0.43
Tetrachloroethene	120	2.1	0.24	ND	2.1	0.24	2,800	15	1.7	ND	2.1	0.24
2-Hexanone	ND	2.1	0.21	ND	2.1	0.21	ND	15	1.5	ND	2.1	0.21
Dibromochloromethane	ND	2.1	0.36	ND	2.1	0.36	ND	15	2.5	ND	2.1	0.36
1,2-Dibromoethane	ND	2.1	0.28	ND	2.1	0.28	ND	15	1.9	ND	2.1	0.28
Chlorobenzene	ND	2.1	0.30	ND	2.1	0.30	ND	15	2.1	ND	2.1	0.30

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Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101005-05			C101005-06			C101005-07			C101005-08		
Client Sample I.D.:	OC_SVE_VE-9S_101011			OC_SVE_VE-10S_101011			OC_SVE_VE-11S_101011			OC_SVE_VE-12S_101011		
Date Sampled:	10/10/11			10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/18/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111018MS2A1			111014MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			15			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	2.1	0.064	ND	2.1	0.064	2.3 J	15	0.45	ND	2.1	0.064
p,&m-Xylene	0.48 J	2.1	0.48	0.92 J	2.1	0.48	6.0 J	15	3.4	ND	2.1	0.48
o-Xylene	ND	2.1	0.29	ND	2.1	0.29	2.7 J	15	2.0	ND	2.1	0.29
Isopropanol	ND	11	1.4	ND	11	1.4	ND	74	10	ND	11	1.4
n-Hexane	ND	11	0.53	ND	11	0.53	ND	74	3.7	ND	11	0.53
1,4-Dioxane	ND	11	1.4	ND	11	1.4	ND	74	9.6	ND	11	1.4
Total VOC's	240			50			4,100			17		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	112%	70-130%	110%	70-130%	109%	70-130%	114%	70-130%
Toluene-d8	87%	70-130%	91%	70-130%	91%	70-130%	98%	70-130%
4-Bromofluorobenzene	87%	70-130%	93%	70-130%	99%	70-130%	85%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 10/24/11
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101005-09			C101005-10								
Client Sample I.D.:	OC_SVE_VE-14S_101011			OC_SVE_VE-15S_101011								
Date Sampled:	10/10/11			10/10/11								
Date Analyzed:	10/14/11			10/14/11								
QC Batch No.:	111014MS2A1			111014MS2A1								
Analyst Initials:	DT			DT								
Dilution Factor:	2.1			2.1								
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv						
Dichlorodifluoromethane (12)	ND	2.1	0.100	ND	2.1	0.100						
Chloromethane	0.96 J	4.2	0.70	0.86 J	4.2	0.70						
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.1	0.27	ND	2.1	0.27						
Vinyl Chloride	ND	2.1	0.47	ND	2.1	0.47						
Bromomethane	ND	2.1	0.23	ND	2.1	0.23						
Chloroethane	ND	2.1	0.76	ND	2.1	0.76						
Trichlorofluoromethane (11)	ND	2.1	0.86	ND	2.1	0.86						
1,1-Dichloroethene	ND	2.1	0.23	ND	2.1	0.23						
Carbon Disulfide	ND	11	0.31	ND	11	0.31						
1,1,2-Cl 1,2,2-F ethane (113)	ND	2.1	0.48	ND	2.1	0.48						
Acetone	21	11	0.66	17	11	0.66						
Methylene Chloride	ND	2.1	0.41	ND	2.1	0.41						
t-1,2-Dichloroethene	ND	2.1	0.34	ND	2.1	0.34						
1,1-Dichloroethane	ND	2.1	0.25	ND	2.1	0.25						
Vinyl Acetate	ND	11	0.37	ND	11	0.37						
c-1,2-Dichloroethene	ND	2.1	0.46	ND	2.1	0.46						
2-Butanone	4.3	2.1	0.53	ND	2.1	0.53						
t-Butyl Methyl Ether (MTBE)	ND	2.1	0.42	ND	2.1	0.42						
Chloroform	ND	2.1	0.29	ND	2.1	0.29						
1,1,1-Trichloroethane	ND	2.1	0.24	ND	2.1	0.24						
Carbon Tetrachloride	ND	2.1	0.24	ND	2.1	0.24						
Benzene	0.59 J	2.1	0.41	0.51 J	2.1	0.41						
1,2-Dichloroethane	ND	2.1	0.55	ND	2.1	0.55						
Trichloroethene	ND	2.1	0.33	ND	2.1	0.33						
1,2-Dichloropropane	ND	2.1	0.27	ND	2.1	0.27						
Bromodichloromethane	ND	2.1	0.32	ND	2.1	0.32						
c-1,3-Dichloropropene	ND	2.1	0.47	ND	2.1	0.47						
4-Methyl-2-Pentanone	ND	2.1	0.099	ND	2.1	0.099						
Toluene	1.8 J	2.1	0.27	1.4 J	2.1	0.27						
t-1,3-Dichloropropene	ND	2.1	0.26	ND	2.1	0.26						
1,1,2-Trichloroethane	ND	2.1	0.43	ND	2.1	0.43						
Tetrachloroethene	ND	2.1	0.24	ND	2.1	0.24						
2-Hexanone	ND	2.1	0.21	ND	2.1	0.21						
Dibromochloromethane	ND	2.1	0.36	ND	2.1	0.36						
1,2-Dibromoethane	ND	2.1	0.28	ND	2.1	0.28						
Chlorobenzene	ND	2.1	0.30	ND	2.1	0.30						

AirTECHNOLOGY Laboratories, Inc.
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Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C101005-09			C101005-10		
Client Sample I.D.:	OC_SVE_VE-14S_101011			OC_SVE_VE-15S_101011		
Date Sampled:	10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	2.1			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	2.1	0.064	ND	2.1	0.064
p,&m-Xylene	0.72 J	2.1	0.48	0.50 J	2.1	0.48
o-Xylene	ND	2.1	0.29	ND	2.1	0.29
Isopropanol	ND	11	1.4	ND	11	1.4
n-Hexane	ND	11	0.53	ND	11	0.53
1,4-Dioxane	ND	11	1.4	ND	11	1.4
Total VOC's	29			20		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	111%	70-130%	114%	70-130%
Toluene-d8	87%	70-130%	111%	70-130%
4-Bromofluorobenzene	89%	70-130%	85%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 10/24/11
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101005-01			C101005-02			C101005-03			C101005-04		
Client Sample I.D.:	OC_SVE_VE-1S_101011			OC_SVE_VE-5S_101011			OC_SVE_VE-6S_101011			OC_SVE_VE-8S_101011		
Date Sampled:	10/10/11			10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/14/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111014MS2A1			111014MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			2.1			2.1			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.2 J	9.6	0.46	ND	10	0.49	2.8 J	10	0.49	ND	8.6	0.41
Chloromethane	1.5 J	8.0	1.3	ND	8.7	1.4	1.6 J	8.7	1.4	ND	7.2	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	14	1.8	ND	15	1.9	ND	15	1.9	ND	12	1.6
Vinyl Chloride	ND	5.0	1.1	ND	5.4	1.2	ND	5.4	1.2	ND	4.5	0.99
Bromomethane	ND	7.5	0.84	ND	8.2	0.91	ND	8.2	0.91	ND	6.8	0.76
Chloroethane	ND	5.1	1.9	ND	5.6	2.0	ND	5.6	2.0	ND	4.6	1.7
Trichlorofluoromethane (11)	ND	11	4.5	ND	12	4.8	ND	12	4.8	ND	9.8	4.0
1,1-Dichloroethene	ND	7.7	0.83	ND	8.4	0.90	ND	8.4	0.90	ND	6.9	0.75
Carbon Disulfide	ND	30	0.90	ND	33	0.97	ND	33	0.97	15 J	27	0.81
1,1,2-Cl 1,2,2-F ethane (113)	ND	15	3.4	ND	16	3.7	ND	16	3.7	ND	13	3.1
Acetone	47	23	1.4	65	25	1.6	43	25	1.6	52	21	1.3
Methylene Chloride	ND	6.8	1.3	ND	7.3	1.4	ND	7.3	1.4	ND	6.1	1.2
t-1,2-Dichloroethene	ND	7.7	1.2	ND	8.4	1.4	ND	8.4	1.4	ND	6.9	1.1
1,1-Dichloroethane	ND	7.9	0.93	ND	8.5	1.0	ND	8.5	1.0	ND	7.1	0.84
Vinyl Acetate	ND	34	1.2	ND	37	1.3	ND	37	1.3	ND	31	1.1
c-1,2-Dichloroethene	ND	7.7	1.7	ND	8.4	1.8	ND	8.4	1.8	ND	6.9	1.5
2-Butanone	ND	5.7	1.5	4.8 J	6.2	1.6	6.2	6.2	1.6	8.2	5.1	1.3
t-Butyl Methyl Ether (MTBE)	ND	7.0	1.4	ND	7.6	1.5	ND	7.6	1.5	ND	6.3	1.2
Chloroform	ND	9.5	1.3	ND	10	1.4	ND	10	1.4	ND	8.5	1.2
1,1,1-Trichloroethane	ND	11	1.2	ND	11	1.3	ND	11	1.3	ND	9.5	1.1
Carbon Tetrachloride	ND	12	1.4	ND	13	1.5	ND	13	1.5	ND	11	1.3
Benzene	1.8 J	6.2	1.2	2.3 J	6.7	1.3	1.9 J	6.7	1.3	2.9 J	5.6	1.1
1,2-Dichloroethane	ND	7.9	2.1	ND	8.5	2.2	ND	8.5	2.2	ND	7.1	1.9
Trichloroethene	ND	10	1.6	ND	11	1.8	ND	11	1.8	ND	9.4	1.5
1,2-Dichloropropane	ND	9.0	1.1	ND	9.7	1.2	ND	9.7	1.2	ND	8.1	1.0
Bromodichloromethane	ND	13	2.0	ND	14	2.1	ND	14	2.1	ND	12	1.8
c-1,3-Dichloropropene	ND	8.8	2.0	ND	9.6	2.2	ND	9.6	2.2	ND	7.9	1.8
4-Methyl-2-Pentanone	ND	8.0	0.38	ND	8.6	0.41	ND	8.6	0.41	ND	7.1	0.34
Toluene	6.6 J	7.3	0.93	7.2 J	7.9	1.0	6.3 J	7.9	1.0	6.8	6.6	0.84
t-1,3-Dichloropropene	ND	8.8	1.1	ND	9.6	1.2	ND	9.6	1.2	ND	7.9	0.97
1,1,2-Trichloroethane	ND	11	2.2	ND	11	2.4	ND	11	2.4	ND	9.5	1.9
Tetrachloroethene	ND	13	1.5	ND	14	1.6	ND	14	1.6	ND	12	1.3
2-Hexanone	ND	8.0	0.81	ND	8.6	0.87	ND	8.6	0.87	ND	7.1	0.72
Dibromochloromethane	ND	17	2.8	ND	18	3.1	ND	18	3.1	ND	15	2.6
1,2-Dibromoethane	ND	15	2.0	ND	16	2.1	ND	16	2.1	ND	13	1.8
Chlorobenzene	ND	8.9	1.3	ND	9.7	1.4	ND	9.7	1.4	ND	8.0	1.2

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101005-01			C101005-02			C101005-03			C101005-04		
Client Sample I.D.:	OC_SVE_VE-1S_101011			OC_SVE_VE-5S_101011			OC_SVE_VE-6S_101011			OC_SVE_VE-8S_101011		
Date Sampled:	10/10/11			10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/14/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111014MS2A1			111014MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			2.1			2.1			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	8.4	0.26	ND	9.1	0.28	ND	9.1	0.28	ND	7.6	0.23
p,&m-Xylene	2.2 J	8.4	1.9	2.6 J	9.1	2.1	2.8 J	9.1	2.1	2.6 J	7.6	1.7
o-Xylene	ND	8.4	1.2	ND	9.1	1.3	ND	9.1	1.3	1.3 J	7.6	1.0
Isopropanol	ND	24	3.3	ND	26	3.5	ND	26	3.5	3.6 J	21	2.9
n-Hexane	ND	34	1.7	2.0 J	37	1.9	ND	37	1.9	1.7 J	31	1.5
1,4-Dioxane	ND	35	4.6	ND	38	5.0	ND	38	5.0	ND	31	4.1
Total VOC's	62			84			65			94		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	109%	70-130%	106%	70-130%	104%	70-130%	104%	70-130%
Toluene-d8	85%	70-130%	103%	70-130%	78%	70-130%	98%	70-130%
4-Bromofluorobenzene	86%	70-130%	80%	70-130%	92%	70-130%	84%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 10/21/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101005-05			C101005-06			C101005-07			C101005-08		
Client Sample I.D.:	OC_SVE_VE-9S_101011			OC_SVE_VE-10S_101011			OC_SVE_VE-11S_101011			OC_SVE_VE-12S_101011		
Date Sampled:	10/10/11			10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/18/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111018MS2A1			111014MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			15			2.1		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.3 J	10	0.49	ND	10	0.49	ND	73	3.5	3.8 J	10	0.49
Chloromethane	ND	8.7	1.4	2.6 J	8.7	1.4	ND	61	10	ND	8.7	1.4
1,2-Cl-1,1,2,2-F ethane (114)	ND	15	1.9	ND	15	1.9	ND	100	13	ND	15	1.9
Vinyl Chloride	ND	5.4	1.2	ND	5.4	1.2	ND	38	8.3	ND	5.4	1.2
Bromomethane	ND	8.2	0.91	ND	8.2	0.91	ND	57	6.4	ND	8.2	0.91
Chloroethane	ND	5.6	2.0	ND	5.6	2.0	ND	39	14	ND	5.6	2.0
Trichlorofluoromethane (11)	45	12	4.8	ND	12	4.8	430	83	34	ND	12	4.8
1,1-Dichloroethene	150	8.4	0.90	ND	8.4	0.90	1,800	58	6.3	ND	8.4	0.90
Carbon Disulfide	ND	33	0.97	ND	33	0.97	ND	230	6.8	ND	33	0.97
1,1,2-Cl 1,2,2-F ethane (113)	250	16	3.7	ND	16	3.7	2,100	110	26	ND	16	3.7
Acetone	53	25	1.6	100	25	1.6	160 J	180	11	33	25	1.6
Methylene Chloride	ND	7.3	1.4	ND	7.3	1.4	35 J	51	10	ND	7.3	1.4
t-1,2-Dichloroethene	ND	8.4	1.4	ND	8.4	1.4	ND	58	9.5	ND	8.4	1.4
1,1-Dichloroethane	1.3 J	8.5	1.0	ND	8.5	1.0	33 J	60	7.1	ND	8.5	1.0
Vinyl Acetate	ND	37	1.3	ND	37	1.3	ND	260	9.0	ND	37	1.3
c-1,2-Dichloroethene	ND	8.4	1.8	ND	8.4	1.8	ND	58	13	ND	8.4	1.8
2-Butanone	9.4	6.2	1.6	6.4	6.2	1.6	ND	43	11	ND	6.2	1.6
t-Butyl Methyl Ether (MTBE)	ND	7.6	1.5	ND	7.6	1.5	ND	53	11	ND	7.6	1.5
Chloroform	15	10	1.4	ND	10	1.4	420	72	10.0	ND	10	1.4
1,1,1-Trichloroethane	ND	11	1.3	ND	11	1.3	11 J	80	9.2	ND	11	1.3
Carbon Tetrachloride	ND	13	1.5	ND	13	1.5	ND	93	11	ND	13	1.5
Benzene	2.0 J	6.7	1.3	2.7 J	6.7	1.3	9.4 J	47	9.2	1.8 J	6.7	1.3
1,2-Dichloroethane	ND	8.5	2.2	ND	8.5	2.2	160	60	16	ND	8.5	2.2
Trichloroethene	55	11	1.8	ND	11	1.8	1,300	79	12	ND	11	1.8
1,2-Dichloropropane	ND	9.7	1.2	ND	9.7	1.2	ND	68	8.6	ND	9.7	1.2
Bromodichloromethane	ND	14	2.1	ND	14	2.1	ND	99	15	ND	14	2.1
c-1,3-Dichloropropene	ND	9.6	2.2	ND	9.6	2.2	ND	67	15	ND	9.6	2.2
4-Methyl-2-Pentanone	ND	8.6	0.41	ND	8.6	0.41	ND	60	2.9	ND	8.6	0.41
Toluene	5.6 J	7.9	1.0	9.6	7.9	1.0	12 J	56	7.1	5.6 J	7.9	1.0
t-1,3-Dichloropropene	ND	9.6	1.2	ND	9.6	1.2	ND	67	8.2	ND	9.6	1.2
1,1,2-Trichloroethane	ND	11	2.4	ND	11	2.4	ND	80	16	ND	11	2.4
Tetrachloroethene	780	14	1.6	ND	14	1.6	19,000	100	11	ND	14	1.6
2-Hexanone	ND	8.6	0.87	ND	8.6	0.87	ND	60	6.1	ND	8.6	0.87
Dibromochloromethane	ND	18	3.1	ND	18	3.1	ND	130	22	ND	18	3.1
1,2-Dibromoethane	ND	16	2.1	ND	16	2.1	ND	110	15	ND	16	2.1
Chlorobenzene	ND	9.7	1.4	ND	9.7	1.4	ND	68	9.8	ND	9.7	1.4

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101005-05			C101005-06			C101005-07			C101005-08		
Client Sample I.D.:	OC_SVE_VE-9S_101011			OC_SVE_VE-10S_101011			OC_SVE_VE-11S_101011			OC_SVE_VE-12S_101011		
Date Sampled:	10/10/11			10/10/11			10/10/11			10/10/11		
Date Analyzed:	10/14/11			10/14/11			10/18/11			10/14/11		
QC Batch No.:	111014MS2A1			111014MS2A1			111018MS2A1			111014MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			15			2.1		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	9.1	0.28	ND	9.1	0.28	9.8 J	64	1.9	ND	9.1	0.28
p,&m-Xylene	2.1 J	9.1	2.1	4.0 J	9.1	2.1	26 J	64	15	ND	9.1	2.1
o-Xylene	ND	9.1	1.3	ND	9.1	1.3	12 J	64	8.8	ND	9.1	1.3
Isopropanol	ND	26	3.5	ND	26	3.5	ND	180	25	ND	26	3.5
n-Hexane	ND	37	1.9	ND	37	1.9	ND	260	13	ND	37	1.9
1,4-Dioxane	ND	38	5.0	ND	38	5.0	ND	270	35	ND	38	5.0
Total VOC's	1,400			130			26,000			44		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	112%	70-130%	110%	70-130%	109%	70-130%	114%	70-130%
Toluene-d8	87%	70-130%	91%	70-130%	91%	70-130%	98%	70-130%
4-Bromofluorobenzene	87%	70-130%	93%	70-130%	99%	70-130%	85%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 10/24/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101005-09			C101005-10								
Client Sample I.D.:	OC_SVE_VE-14S_101011			OC_SVE_VE-15S_101011								
Date Sampled:	10/10/11			10/10/11								
Date Analyzed:	10/14/11			10/14/11								
QC Batch No.:	111014MS2A1			111014MS2A1								
Analyst Initials:	DT			DT								
Dilution Factor:	2.1			2.1								
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3						
Dichlorodifluoromethane (12)	ND	10	0.49	ND	10	0.49						
Chloromethane	2.0 J	8.7	1.4	1.8 J	8.7	1.4						
1,2-Cl-1,1,2,2-F ethane (114)	ND	15	1.9	ND	15	1.9						
Vinyl Chloride	ND	5.4	1.2	ND	5.4	1.2						
Bromomethane	ND	8.2	0.91	ND	8.2	0.91						
Chloroethane	ND	5.6	2.0	ND	5.6	2.0						
Trichlorofluoromethane (11)	ND	12	4.8	ND	12	4.8						
1,1-Dichloroethene	ND	8.4	0.90	ND	8.4	0.90						
Carbon Disulfide	ND	33	0.97	ND	33	0.97						
1,1,2-Cl 1,2,2-F ethane (113)	ND	16	3.7	ND	16	3.7						
Acetone	50	25	1.6	40	25	1.6						
Methylene Chloride	ND	7.3	1.4	ND	7.3	1.4						
t-1,2-Dichloroethene	ND	8.4	1.4	ND	8.4	1.4						
1,1-Dichloroethane	ND	8.5	1.0	ND	8.5	1.0						
Vinyl Acetate	ND	37	1.3	ND	37	1.3						
c-1,2-Dichloroethene	ND	8.4	1.8	ND	8.4	1.8						
2-Butanone	13	6.2	1.6	ND	6.2	1.6						
t-Butyl Methyl Ether (MTBE)	ND	7.6	1.5	ND	7.6	1.5						
Chloroform	ND	10	1.4	ND	10	1.4						
1,1,1-Trichloroethane	ND	11	1.3	ND	11	1.3						
Carbon Tetrachloride	ND	13	1.5	ND	13	1.5						
Benzene	1.9 J	6.7	1.3	1.6 J	6.7	1.3						
1,2-Dichloroethane	ND	8.5	2.2	ND	8.5	2.2						
Trichloroethene	ND	11	1.8	ND	11	1.8						
1,2-Dichloropropane	ND	9.7	1.2	ND	9.7	1.2						
Bromodichloromethane	ND	14	2.1	ND	14	2.1						
c-1,3-Dichloropropene	ND	9.6	2.2	ND	9.6	2.2						
4-Methyl-2-Pentanone	ND	8.6	0.41	ND	8.6	0.41						
Toluene	6.6 J	7.9	1.0	5.1 J	7.9	1.0						
t-1,3-Dichloropropene	ND	9.6	1.2	ND	9.6	1.2						
1,1,2-Trichloroethane	ND	11	2.4	ND	11	2.4						
Tetrachloroethene	ND	14	1.6	ND	14	1.6						
2-Hexanone	ND	8.6	0.87	ND	8.6	0.87						
Dibromochloromethane	ND	18	3.1	ND	18	3.1						
1,2-Dibromoethane	ND	16	2.1	ND	16	2.1						
Chlorobenzene	ND	9.7	1.4	ND	9.7	1.4						

AirTECHNOLOGY Laboratories, Inc.
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Client: de maximis, inc.
Attn: Ken Hewlett
Project Name: Omega - ISVE System
Project No.: E-742
Date Received: 10/10/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C101005-09			C101005-10								
Client Sample I.D.:	OC_SVE_VE-14S_101011			OC_SVE_VE-15S_101011								
Date Sampled:	10/10/11			10/10/11								
Date Analyzed:	10/14/11			10/14/11								
QC Batch No.:	111014MS2A1			111014MS2A1								
Analyst Initials:	DT			DT								
Dilution Factor:	2.1			2.1								
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3						
Ethylbenzene	ND	9.1	0.28	ND	9.1	0.28						
p,&m-Xylene	3.1 J	9.1	2.1	2.2 J	9.1	2.1						
o-Xylene	ND	9.1	1.3	ND	9.1	1.3						
Isopropanol	ND	26	3.5	ND	26	3.5						
n-Hexane	ND	37	1.9	ND	37	1.9						
1,4-Dioxane	ND	38	5.0	ND	38	5.0						
Total VOC's	77			51								

Surrogate	Result	QC Criteria	Result	QC Criteria				
1,2-Dichloroethane-d4	111%	70-130%	114%	70-130%				
Toluene-d8	87%	70-130%	111%	70-130%				
4-Bromofluorobenzene	89%	70-130%	85%	70-130%				

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 10/24/11

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111014MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	10/14/11		10/14/11		10/14/11						
Data File ID:	14OCT007.D		14OCT005.D		14OCT006.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.9	89	9.0	90	0.5	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.9	89	8.8	88	2.0	70	130	30	Pass
Trichloroethene	0.0	10.0	8.0	80	7.8	78	2.0	70	130	30	Pass
Toluene	0.0	10.0	8.2	82	7.9	79	3.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.8	88	8.8	88	0.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 10/24/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111018MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	10/18/11		10/19/11		10/19/11						
Data File ID:	18OCT006.D		19OCT004.D		19OCT005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.4	84	8.7	87	4.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.6	86	8.6	86	0.2	70	130	30	Pass
Trichloroethene	0.0	10.0	8.0	80	8.2	82	1.6	70	130	30	Pass
Toluene	0.0	10.0	8.1	81	8.3	83	2.0	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.2	82	8.4	84	2.4	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 10/24/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111010\14OCT002.D
Tune Time : 14 Oct 2011 5:24

Daily Calibration File : D:\GCMSB\111010\14OCT003.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					Daily cali. I.S. response		
					55352	242387	154788
14OCT004	TO15 LCS	98	90	100	55378	234781	149756
14OCT005	TO15 LCSD	98	88	100	55577	237457	146870
14OCT006	METHOD BLANK	109	93	73	49695	190324	133486
14OCT010	C101004-01 d	101	90	93	54170	224449	153938
14OCT011	C101004-02 d	103	85	89	51085	211135	134987
14OCT013	C101005-01 d	109	85	86	50428	194660	128849
14OCT014	C101005-02 d	106	103	80	48818	199327	128436
14OCT015	C101005-03 d	104	78	92	48589	199054	123703
14OCT016	C101005-04 d	104	98	84	46461	185782	122627
14OCT017	C101005-05 d	112	87	87	47703	172091	125168
14OCT018	C101005-06 d	110	91	93	45307	164952	110607
14OCT019	C101005-07 d	113	92	109	41335	153711	117945
14OCT020	C101005-08 d	114	98	85	39499	142258	102275
14OCT021	C101005-09 d	111	87	89	38273	145120	* 95596
14OCT022	C101005-10 d	114	111	85	37118	* 138204	97800

surrogate recovery limits 70-130%
Internal standard response limits ~~60-140%~~ 50-150%

t - fails 24hr time check * - fails criteria 60-140
Created:Thu Oct 20 14:49:59 2011

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111017\18OCT001.D
Tune Time : 18 Oct 2011 8:35

Daily Calibration File : D:\GCMSB\111017\18OCT002.D

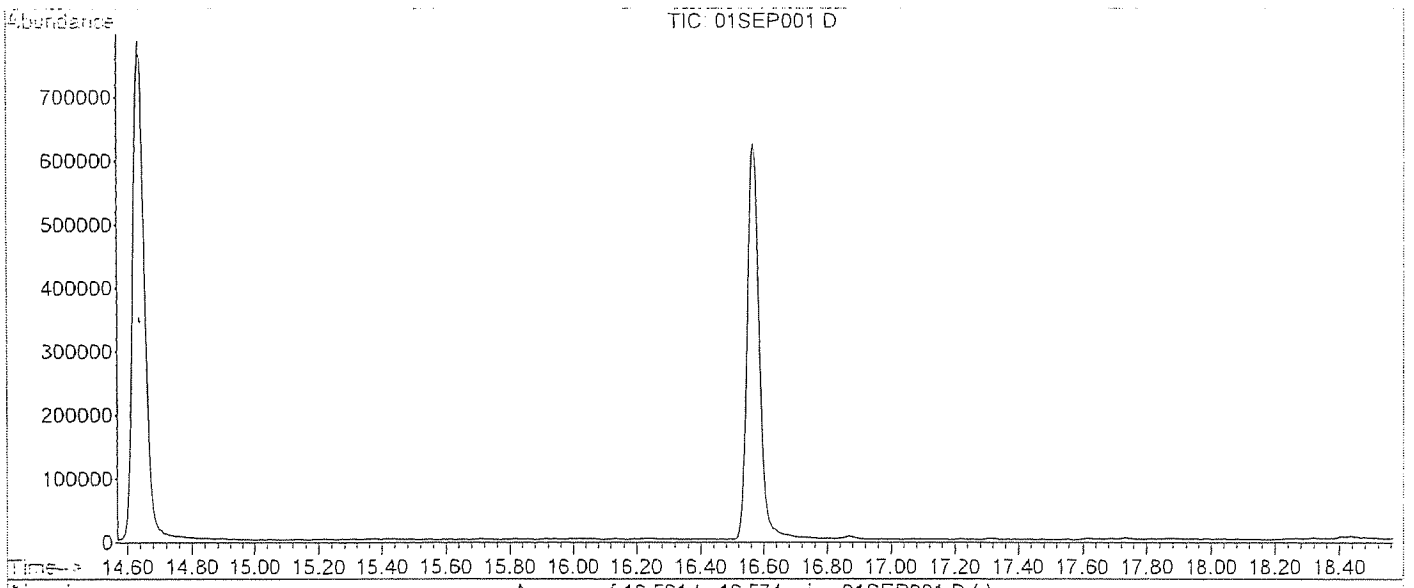
					Daily cali. I.S. response		
					45004	228569	156500
File	Sample	Surrogate Recovery %			Internal Standard Responses		
18OCT004	TO15 LCS	95	92	108	45255	191147	136946
18OCT005	TO15 LCSD	96	91	110	42827	188696	126879
18OCT006	METHOD BLANK	104	88	93	40109	157827	106310
18OCT007	C101004-03 d	105	94	118	38099	155173	119270
18OCT008	C101005-07 d	109	91	99	47825	169555	153650

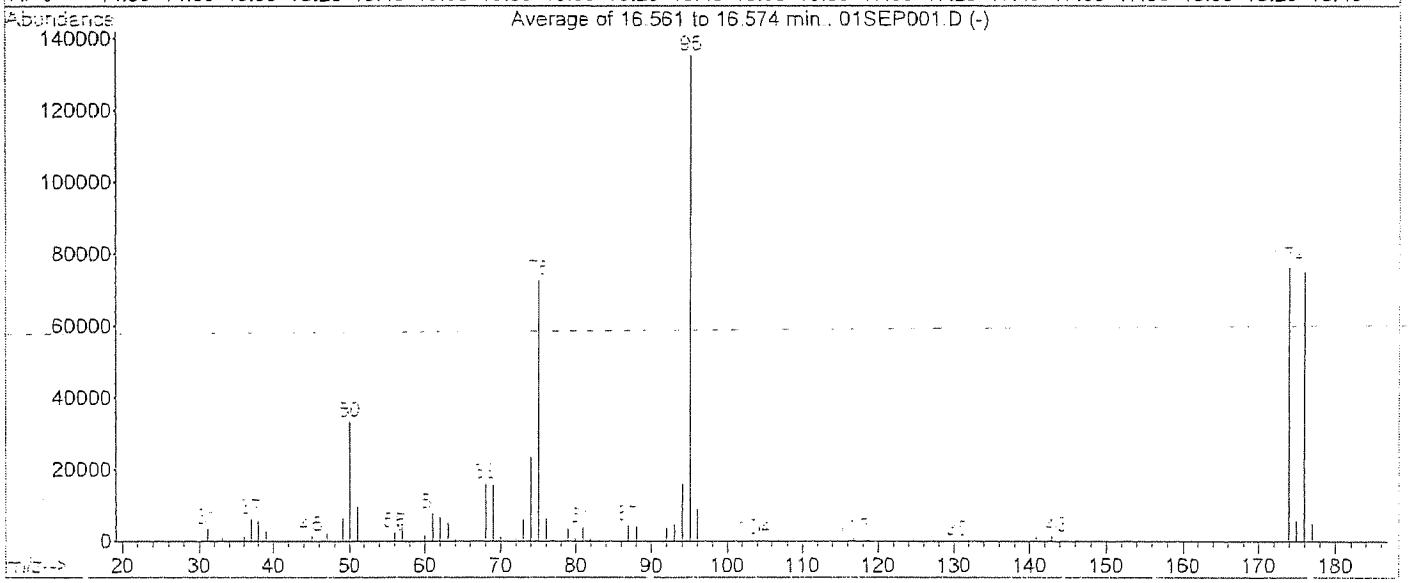
surrogate recovery limits 70-130%
Internal standard response limits 60-40%
t - fails 24hr time check * - fails criteria
Created:Thu Oct 20 14:47:17 2011

BFB

Data File : D:\GCMSB\110829\01SEP001.D
Acq On : 31 Aug 2011 23:06
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 4
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	33312	PASS
75	95	30	60	53.8	72664	PASS
95	95	100	100	100.0	135107	PASS
96	95	5	9	6.6	8964	PASS
173	174	0.00	2	0.4	311	PASS
174	95	50	100	56.6	76413	PASS
175	174	5	9	7.6	5792	PASS
176	174	95	101	98.3	75117	PASS
177	176	5	9	6.6	4934	PASS

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	7.505	7.130	6.709	6.545	6.058	4.048	6.332	19.33
3)		Chloromethane	2.738	2.615	2.562	2.516	2.468	1.745	2.441	14.47
4)		1,2-Cl-1,1,2,2-F et	6.700	6.378	6.054	5.933	5.629	3.916	5.768	16.98
5)		Vinyl Chloride	2.578	2.501	2.453	2.441	2.466	1.735	2.362	13.18
6)		Bromomethane	1.355	1.051	1.046	0.976	1.019	0.731	1.030	19.35
7)		Chloroethane	1.378	1.158	1.044	0.984	0.963	0.681	1.034	22.31
8)		Trichlorofluorometh	6.825	6.479	6.183	6.020	5.709	4.129	5.891	16.03
9)	M	1,1-Dichloroethene	3.788	4.037	4.089	4.175	4.124	2.945	3.860	12.12
10)		Carbon Disulfide	4.959	5.118	5.188	5.365	5.407	3.828	4.977	11.78
11)		1,1,2-Cl 1,2,2-F et	3.079	2.999	2.859	2.848	2.704	1.929	2.736	15.21
12)		Acetone		4.660	4.549	4.428	4.098	2.900	4.127	17.39
13)	M	Methylene Chloride	1.771	1.775	1.697	1.743	1.736	1.244	1.661	12.42
14)		t-1,2-Dichloroethen	1.665	1.812	1.807	1.887	1.893	1.392	1.743	10.93
15)		1,1-Dichloroethane	4.429	4.529	4.462	4.518	4.412	3.133	4.247	12.90
16)		Vinyl Acetate	6.157	7.514	8.204	8.415	8.246	5.492	7.338	16.76
17)		c-1,2-Dichloroethen	1.804	1.952	1.996	1.996	1.986	1.435	1.862	11.89
18)		2-Butanone	0.454	0.934	0.988	1.029	1.042	0.739	0.864	26.54
19)		t-Butyl Methyl Ethe	4.634	5.070	5.492	5.809	5.919	4.067	5.165	13.92
20)	t	Chloroform	4.957	4.914	4.781	4.768	4.634	3.319	4.562	13.58
21)		1,1,1-Trichloroetha	4.584	4.643	4.503	4.638	4.635	3.368	4.395	11.52
22)		1,1-Dichloropropene	2.979	3.397	3.494	3.584	3.566	2.571	3.265	12.45
23)	t	Carbon Tetrachlorid	3.485	4.021	3.962	4.252	4.278	3.138	3.856	11.75
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.510	1.415	1.432	1.350	1.455	1.334	1.416	4.65
26)	S	1,2-Dichloroethane-	0.386	0.363	0.378	0.380	0.399	0.645	0.425	25.49
27)		1,2-Dichloroethane	0.925	0.880	0.892	0.841	0.887	0.829	0.876	4.03
28)	M	Trichloroethene	0.477	0.474	0.489	0.480	0.528	0.496	0.491	4.07
29)		1,2-Dichloropropane	0.611	0.573	0.595	0.586	0.652	0.609	0.604	4.55
30)		Bromodichloromethan	0.911	1.016	1.049	1.056	1.169	1.057	1.043	7.95
31)		Dibromomethane	0.476	0.526	0.553	0.538	0.584	0.549	0.538	6.70
32)		c-1,3-Dichloroprope	0.465	0.628	0.699	0.740	0.901	0.872	0.717	22.48
33)		4-Methyl-2-Pentanon	0.932	1.031	1.204	1.199	1.337	1.202	1.151	12.58
34)	S	Toluene-d8	0.703	0.699	0.744	0.717	0.747	0.756	0.728	3.36
35)	M	Toluene	1.485	1.521	1.603	1.563	1.712	1.565	1.575	4.97
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.472	0.726	0.846	0.962	1.176	1.116	0.883	29.57
38)		1,1,2-Trichloroetha	0.780	0.827	0.803	0.802	0.848	0.766	0.804	3.71
39)		1,3-Dichloropropane	1.119	1.216	1.309	1.327	1.405	1.254	1.272	7.79
40)		Tetrachloroethene	0.954	0.905	0.887	0.898	0.917	0.815	0.896	5.11
41)		2-Hexanone		0.684	0.852	0.966	1.082	0.981	0.913	16.64
42)		Dibromochloromethan	0.945	1.103	1.131	1.211	1.360	1.219	1.161	11.97
43)	t	1,2-Dibromoethane	1.002	1.187	1.192	1.226	1.324	1.187	1.186	8.83
44)		Chlorobenzene	1.611	1.653	1.628	1.653	1.777	1.575	1.649	4.19
45)		1,1,1,2-Tetrachloro	0.652	0.738	0.797	0.824	0.903	0.814	0.788	10.81
46)	T	Ethylbenzene	2.518	3.047	3.153	3.185	3.351	2.786	3.007	10.10
47)	T	p,&m-Xylene	2.057	2.505	2.423	2.454	2.462	1.898	2.300	11.13
48)	T	o-Xylene	1.838	2.397	2.449	2.541	2.708	2.386	2.386	12.32
49)		Styrene	0.964	1.506	1.520	1.609	1.828	1.677	1.517	19.49
50)		Bromoform	0.639	0.838	0.852	0.967	1.151	1.050	0.916	19.68

= Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

		Compound	1	5	10	25	100	250	Avg	%RSD
51)		Isopropyl benzene	2.060	2.746	3.181	3.210	3.328	2.883	2.901	16.08
52)	M	1,1,2,2-Tetrachloro	1.903	1.936	1.708	1.707	1.878	1.743	1.813	5.76
53)	S	4-Bromofluorobenzen	0.397	0.420	0.424	0.429	0.428	0.441	0.423	3.44
54)		Benzyl Chloride	0.703	0.875	0.991	1.431	2.180	2.137	1.386	46.52
55)		1,2,3-Trichloroprop	0.451	0.499	0.572	0.577	0.611	0.572	0.547	10.88
56)		n-Propyl Benzene	2.373	2.932	3.658	3.803	4.006	3.344	3.353	18.19
57)		Bromobenzene	1.375	1.559	1.904	1.896	2.085	1.864	1.781	14.69
58)		4-Ethyl Toluene	2.293	3.022	3.048	3.232	3.211	2.797	2.934	11.96
59)	T	1,3,5-Trimethylbenz	2.265	2.910	2.503	2.549	2.832	2.463	2.587	9.34
60)		2-Chlorotoluene	2.375	2.501	2.832	2.930	2.830	2.473	2.657	8.80
61)		4-Chlorotoluene	1.704	1.833	2.399	2.459	2.653	2.357	2.234	16.87
62)		tert-Butylbenzene	1.508	1.917	2.293	2.398	2.540	2.306	2.160	17.63
63)		1,2,4-Trimethylbenz	1.872	2.597	2.468	2.525	2.705	2.392	2.426	12.04
64)		sec-Butylbenzene	2.020	2.649	3.213	3.315	3.443	2.932	2.929	18.06
65)		p-Isopropyltoluene	1.100	1.633	2.170	2.310	2.406	2.133	1.959	25.44
66)		1,3-Dichlorobenzene	1.269	1.420	1.298	1.339	1.493	1.354	1.362	6.05
67)		1,4-Dichlorobenzene	1.282	1.323	1.250	1.318	1.479	1.342	1.332	5.92
68)		n-Butylbenzene	1.108	1.505	2.129	2.225	2.431	2.129	1.921	26.26
69)		1,2-Dichlorobenzene	1.300	1.355	1.207	1.229	1.398	1.271	1.294	5.67
70)		1,2-Dibromo-3-chlor	0.169	0.172	0.267	0.338	0.420	0.412	0.296	37.89
71)		1,2,4-Trichlorobenz	0.391	0.539	0.592	0.681	0.855	0.786	0.641	26.50
72)		Hexachlorobutadiene	0.746	0.783	0.621	0.717	0.796	0.708	0.729	8.66

= Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Initial Calibration

Calibration Files
1 =01SEP019.D 5 =01SEP020.D 10 =01SEP006.D
25 =01SEP007.D 100 =01SEP008.D 250 =01SEP021.D

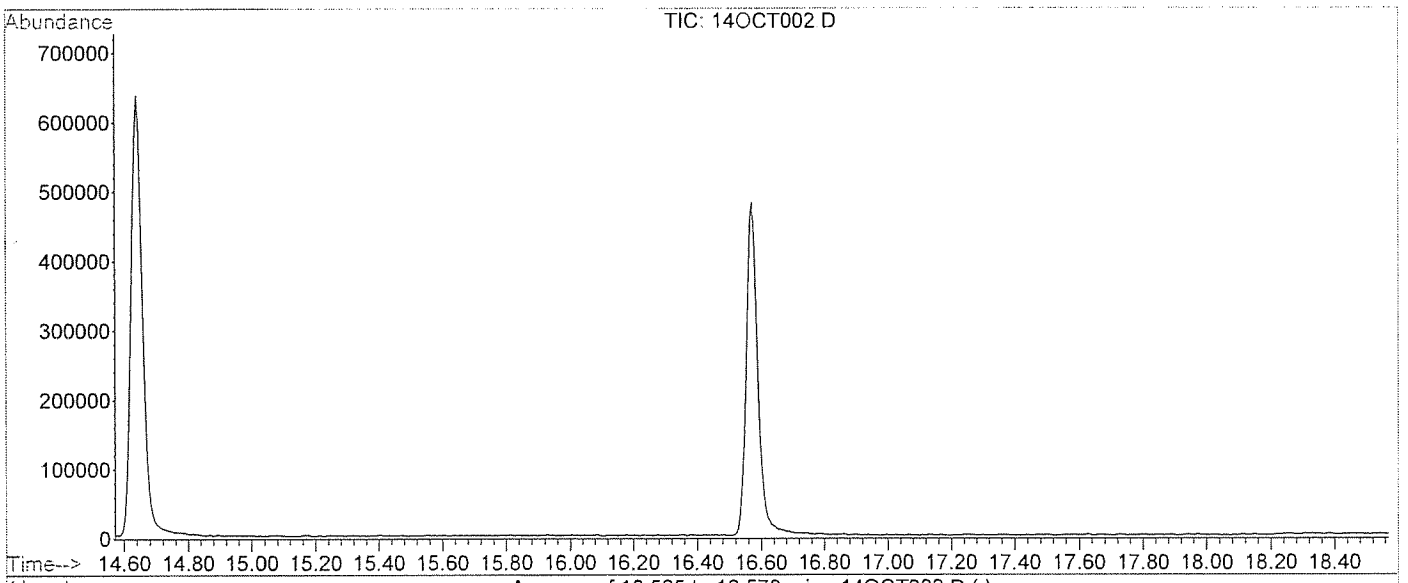
		Compound	1	5	10	25	100	250	Avg	%RSD	
1)	I	Bromochloromethane	----------ISTD----------								
2)		Propene	2.277	1.830	1.774	1.823	1.828	1.234	1.794	18.50	
3)		isobutane		0.087	0.110	0.127	0.121	0.080	0.105	19.74	
4)		1,3-Butadiene	1.817	1.709	1.696	1.828	1.922	1.381	1.725	10.92	
5)		Methanol	1.050	0.294	0.153	0.092	0.082	0.062	0.289	~~132.38~~	NA
6)		Acetaldehyde		0.935	0.827	0.785	0.778	0.528	0.771	19.41	
7)		Ethanol		0.477	0.736	0.674	0.739	0.487	0.623	21.06	
8)		Vinyl Bromide	0.800	0.930	0.948	0.977	1.030	0.782	0.911	10.90	
9)		Isopropanol	2.301	3.186	3.723	3.850	4.077	2.848	3.331	20.34	
10)		Acrolein	0.452	0.646	0.721	0.785	0.823	0.594	0.670	20.37	
11)		t-Butanol	2.359	3.023	3.319	3.654	3.936	2.306	3.100	21.59	
12)		Allyl Chloride	2.042	2.355	2.435	2.561	2.732	1.959	2.347	12.71	
13)		Acrylonitrile	0.714	1.663	1.677	1.983	1.913	1.380	1.555	29.83	
14)		t-Butyl methyl ethe	4.635	5.110	5.491	5.810	5.948	4.084	5.180	13.89	
15)		n-Hexane	3.251	3.746	3.972	4.072	4.035	2.856	3.655	13.57	
16)		Isopropyl ether	6.232	7.172	7.790	8.063	7.771	5.184	7.035	15.90	
17)		t-Butyl ethyl ether	1.648	2.050	2.255	2.447	2.505	1.824	2.122	16.17	
18)		Ethyl Acetate		0.467	0.544	0.560	0.591	0.432	0.519	12.87	
19)		2,2-Dichloropropane	2.754	3.053	3.259	3.482	3.301	2.238	3.014	15.07	
20)		Tetrahydrofuran	0.710	0.851	0.934	1.006	1.015	0.732	0.875	15.22	
21)		Cyclohexane	3.246	3.844	4.014	4.123	4.160	2.938	3.721	13.67	
22)		2,2,4-Trimethylpent	1.120	1.296	1.336	1.341	1.280	0.858	1.205	E1 15.63	
23)	I	1,4-Difluorobenzene	----------ISTD----------								
24)	S	1,2-Dichloroethane-	0.374	0.364	0.373	0.362	0.373	0.382	0.371	1.98	
25)		t-Amyl methyl ether	0.956	1.076	1.155	1.231	1.424	1.336	1.196	14.31	
26)		Heptane	0.438	0.484	0.495	0.489	0.548	0.522	0.496	7.51	
27)		1,4-Dioxane	0.186	0.266	0.313	0.321	0.359		0.289	22.97	
~~28)~~		~~2-chloroethylvinyle~~		~~0.002~~	~~0.007~~	~~0.010~~	~~0.014~~	~~0.015~~	~~0.010~~	~~56.21~~	NA
29)	S	Toluene-d8	0.696	0.699	0.735	0.714	0.744	0.756	0.724	3.40	
30)		Chlorobenzene-d5	----------ISTD----------								
31)		Cyclohexanone		0.601	0.880	0.982	1.055	1.018	0.907	20.17	
32)	S	4-Bromofluorobenzen	0.673	0.729	0.736	0.754	0.781	0.914	0.765	10.65	
33)		Dicyclopentadiene		0.013	0.026	0.032	0.035	0.035	0.028	~~32.25~~	NA
34)		Naphthalene		1.158	1.314	1.599	2.045	1.852	1.594	23.04	
35)		1,2,3-Trichlorobenz				0.000	0.004	0.004	0.003	~~71.56~~	NA

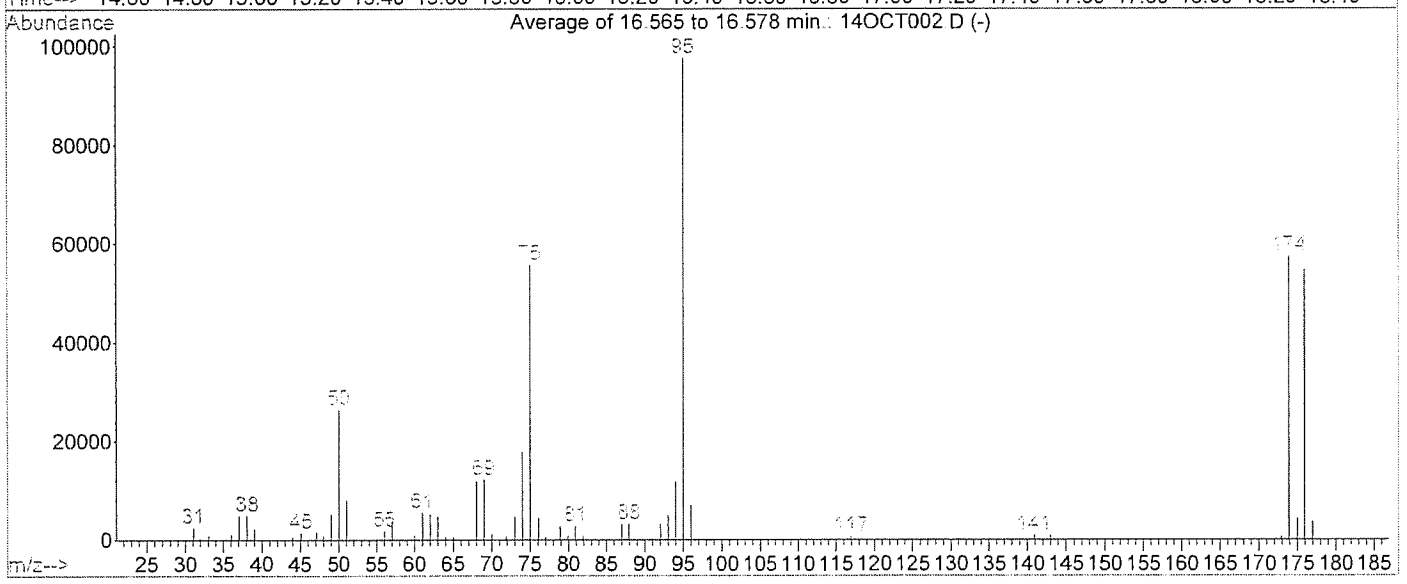
DT 9/2/11

#: = Out of Range

Data File : D:\GCMSB\111010\14OCT002.D
Acq On : 14 Oct 2011 5:24
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 4
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.1	26424	PASS
75	95	30	60	57.1	55667	PASS
95	95	100	100	100.0	97552	PASS
96	95	5	9	7.1	6965	PASS
173	174	0.00	2	1.1	609	PASS
174	95	50	100	58.8	57317	PASS
175	174	5	9	7.4	4228	PASS
176	174	93	101	95.3	54619	PASS
177	176	5	9	6.7	3667	PASS

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111010\14OCT003.D Vial: 4
Acq On : 14 Oct 2011 6:00 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	105	-0.01
2		Dichlorodifluoromethane (12	6.332	5.884	7.1	92	-0.02
3		Chloromethane	2.441	2.284	6.4	94	-0.02
4		1,2-Cl-1,1,2,2-F ethane (11	5.768	5.414	6.1	94	-0.02
5		Vinyl Chloride	2.362	2.130	9.8	91	-0.02
6		Bromomethane	1.030	0.916	11.1	92	-0.01
7		Chloroethane	1.034	0.945	8.6	95	-0.02
8		Trichlorofluoromethane (11)	5.891	5.790	1.7	98	-0.01
9	M	1,1-Dichloroethene	3.860	3.860	0.0	99	-0.02
10		Carbon Disulfide	4.977	5.080	-2.1	103	-0.02
11		1,1,2-Cl 1,2,2-F ethane (11	2.736	2.625	4.1	96	-0.01
12		Acetone	4.127	4.488	-8.7	104	-0.01
13	M	Methylene Chloride	1.661	1.657	0.2	103	-0.01
14		t-1,2-Dichloroethene	1.743	1.714	1.7	100	-0.02
15		1,1-Dichloroethane	4.247	4.317	-1.6	102	-0.01
16		Vinyl Acetate	7.338	7.890	-7.5	101	-0.01
17		c-1,2-Dichloroethene	1.862	1.901	-2.1	100	0.00
18		2-Butanone	0.864	0.930	-7.6	99	0.00
19		t-Butyl Methyl Ether	5.165	5.017	2.9	96	-0.01
20	t	Chloroform	4.562	4.509	1.2	99	0.00
21		1,1,1-Trichloroethane	4.395	4.252	3.3	99	0.00
22		1,1-Dichloropropene	3.265	3.245	0.6	98	0.00
23	t	Carbon Tetrachloride	3.856	3.559	7.7	94	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
25	T	Benzene	1.416	1.371	3.2	99	0.00
26	S	1,2-Dichloroethane-d4	0.425	0.410	3.5	112	0.00
27		1,2-Dichloroethane	0.876	0.876	0.0	102	0.00
28	M	Trichloroethene	0.491	0.428	12.8	91	0.00
29		1,2-Dichloropropane	0.604	0.582	3.6	101	0.00
30		Bromodichloromethane	1.043	0.979	6.1	97	0.00
31		Dibromomethane	0.538	0.565	-5.0	106	0.00
32		c-1,3-Dichloropropene	0.717	0.628	12.4	93	0.00
33		4-Methyl-2-Pentanone	1.151	1.124	2.3	97	0.00
34	S	Toluene-d8	0.728	0.640	12.1	89	0.00
35	M	Toluene	1.575	1.422	9.7	92	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
37		t-1,3-Dichloropropene	0.883	0.832	5.8	95	0.00
38		1,1,2-Trichloroethane	0.804	0.816	-1.5	98	0.00
39		1,3-Dichloropropane	1.272	1.305	-2.6	96	0.00
40		Tetrachloroethene	0.896	0.849	5.2	92	0.00
41		2-Hexanone	0.913	0.835	8.5	94	0.00
42		Dibromochloromethane	1.161	1.048	9.7	89	0.00
43	t	1,2-Dibromoethane	1.186	1.117	5.8	90	0.00
44		Chlorobenzene	1.649	1.540	6.6	91	0.00
45		1,1,1,2-Tetrachloroethane	0.788	0.771	2.2	93	0.00
46	T	Ethylbenzene	3.007	2.935	2.4	90	0.00
47	T	p,&m-Xylene	2.300	2.323	-1.0	92	0.00
48	T	o-Xylene	2.386	2.223	6.8	88	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111010\14OCT003.D Vial: 4
Acq On : 14 Oct 2011 6:00 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.517	1.354	10.7	86	0.00
50		Bromoform	0.916	0.757	17.4	86	0.00
51		Isopropyl benzene	2.901	3.105	-7.0	94	0.00
52	M	1,1,2,2-Tetrachloroethane	1.813	1.810	0.2	102	0.00
53	S	4-Bromofluorobenzene	0.423	0.420	0.7	96	0.00
54		Benzyl Chloride	1.386	1.041	24.9	101	0.00
55		1,2,3-Trichloropropane	0.547	0.572	-4.6	96	0.00
56		n-Propyl Benzene	3.353	3.392	-1.2	89	0.00
57		Bromobenzene	1.781	1.850	-3.9	94	0.00
58		4-Ethyl Toluene	2.934	2.630	10.4	83	0.00
59	T	1,3,5-Trimethylbenzene	2.587	2.245	13.2	86	0.00
60		2-Chlorotoluene	2.657	3.175	-19.5	108	0.00
61		4-Chlorotoluene	2.234	2.046	8.4	82	0.00
62		tert-Butylbenzene	2.160	2.044	5.4	86	0.00
63		1,2,4-Trimethylbenzene	2.426	2.227	8.2	87	0.00
64		sec-Butylbenzene	2.929	2.963	-1.2	89	0.00
65		p-Isopropyltoluene	1.959	1.926	1.7	86	0.00
66		1,3-Dichlorobenzene	1.362	1.243	8.7	92	0.00
67		1,4-Dichlorobenzene	1.332	1.140	14.4	88	0.00
68		n-Butylbenzene	1.921	1.884	1.9	85	0.00
69		1,2-Dichlorobenzene	1.294	1.168	9.7	93	0.00
70		1,2-Dibromo-3-chloropropane	0.296	0.211	28.7	76	0.00
71		1,2,4-Trichlorobenzene	0.641	0.378	41.0#	62	0.00
72		Hexachlorobutadiene	0.729	0.546	25.1	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111010\14OCT003.D Vial: 4
Acq On : 14 Oct 2011 6:00 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Multiple Level Calibration

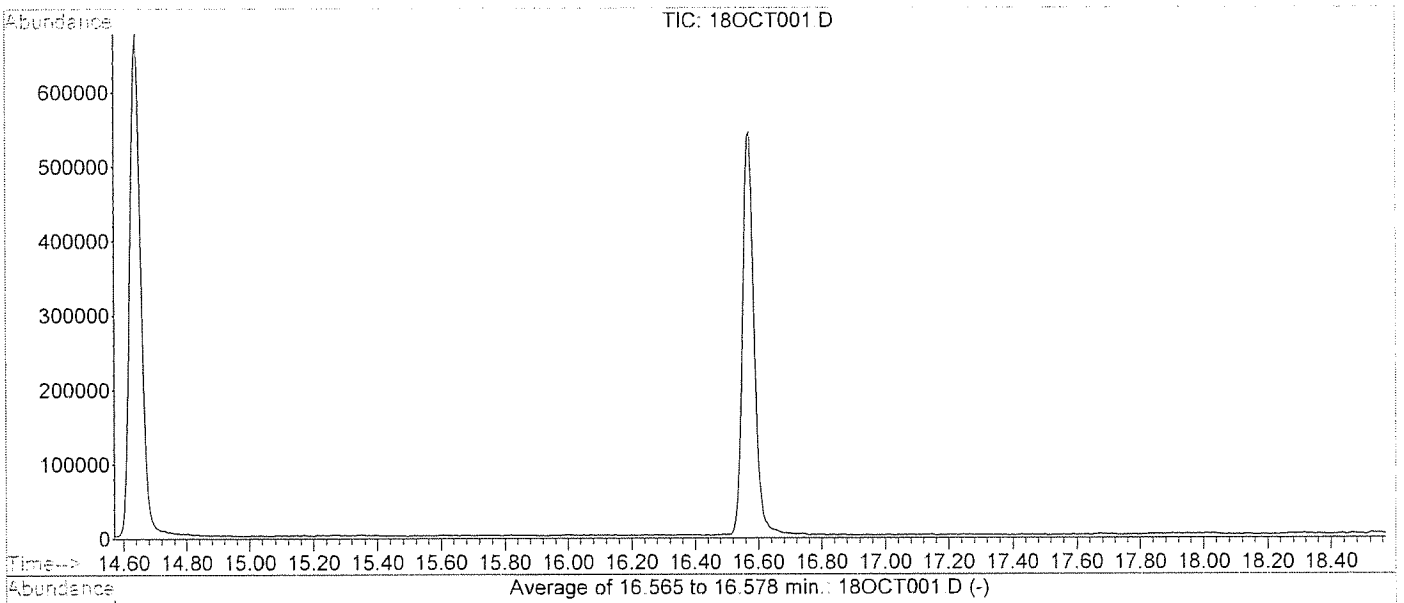
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

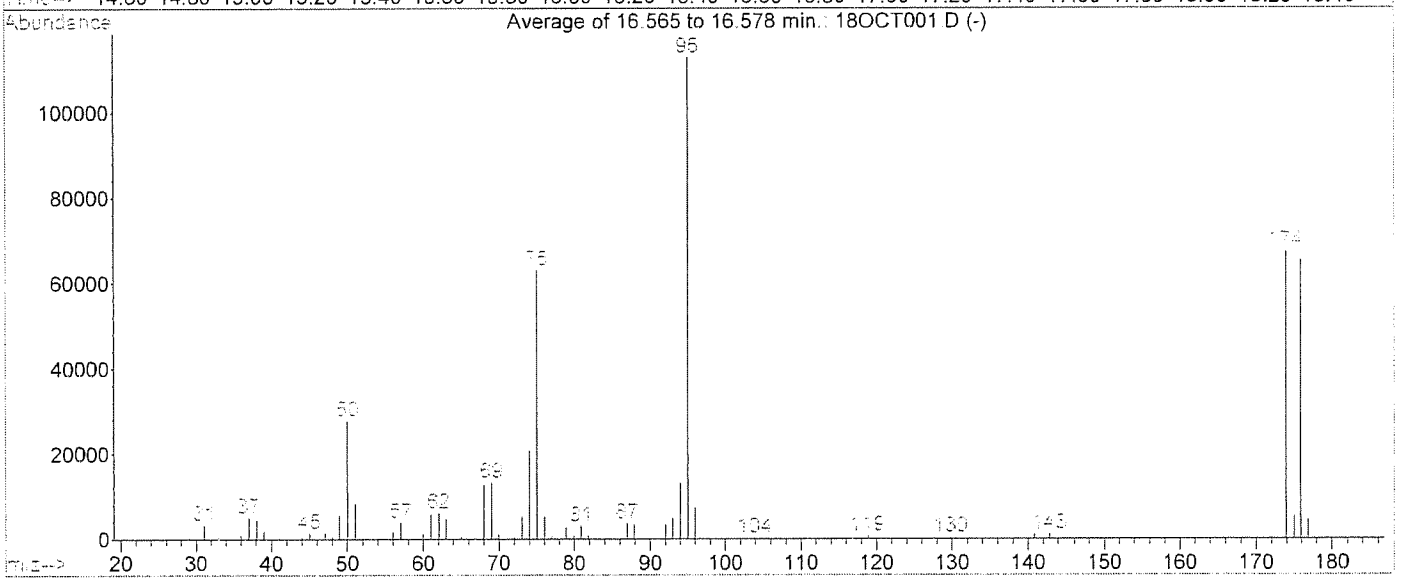
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	105	0.00
2		Propene	1.794	1.640	8.6	97	0.02
3		isobutane	0.105	0.110	-4.8	106	0.00
4		1,3-Butadiene	1.725	1.528	11.4	95	0.01
5		Methanol	0.289	0.199	31.1#	137	0.01
6		Acetaldehyde	0.771	0.746	3.2	95	0.02
7		Ethanol	0.623	0.745	-19.6	107	0.01
8		Vinyl Bromide	0.911	0.620	31.9#	69	0.00
9		Isopropanol	3.331	3.672	-10.2	104	0.00
10		Acrolein	0.670	0.688	-2.7	100	0.02
11		t-Butanol	3.100	3.251	-4.9	103	0.12
12		Allyl Chloride	2.347	2.687	-14.5	116	0.00
13		Acrylonitrile	1.555	1.900	-22.2	119	0.01
14		t-Butyl methyl ether	5.180	4.992	3.6	96	0.01
15		n-Hexane	3.655	3.642	0.4	97	0.01
16		Isopropyl ether	7.035	7.622	-8.3	103	0.00
17		t-Butyl ethyl ether	2.122	2.103	0.9	98	0.00
18		Ethyl Acetate	0.519	0.511	1.5	99	0.00
19		2,2-Dichloropropane	3.014	3.359	-11.4	109	0.00
20		Tetrahydrofuran	0.875	0.880	-0.6	99	0.01
21		Cyclohexane	3.721	3.699	0.6	97	0.01
22		2,2,4-Trimethylpentane	12.053	12.944	-7.4	102	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
24	S	1,2-Dichloroethane-d4	0.371	0.406	-9.4	112	0.00
25		t-Amyl methyl ether	1.196	1.151	3.8	102	0.01
26		Heptane	0.496	0.464	6.5	96	0.00
27		1,4-Dioxane	0.289	0.293	-1.4	96	0.00
28		2-chloroethylvinylether	0.010	0.009	10.0	131	0.00
29	S	Toluene-d8	0.724	0.640	11.6	89	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
31		Cyclohexanone	0.907	0.850	6.3	94	0.00
32	S	4-Bromofluorobenzene	0.765	0.740	3.3	98	0.00
33		Dicyclopentadiene	0.028	0.025	10.7	93	0.00
34		Naphthalene	1.594	0.797	50.0#	59	0.01
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : D:\GCMSB\111017\18OCT001.D
Acq On : 18 Oct 2011 8:35
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 4
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	27723	PASS
75	95	30	60	55.8	63021	PASS
95	95	100	100	100.0	112893	PASS
96	95	5	9	6.5	7389	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	59.6	67325	PASS
175	174	5	9	7.8	5245	PASS
176	174	95	101	97.0	65288	PASS
177	176	5	9	6.8	4449	PASS

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\18OCT002.D Vial: 4
Acq On : 18 Oct 2011 9:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	85	-0.01
2		Dichlorodifluoromethane (12	6.332	7.552	-19.3	96	-0.02
3		Chloromethane	2.441	2.873	-17.7	96	-0.01
4		1,2-Cl-1,1,2,2-F ethane (11	5.768	6.892	-19.5	97	-0.02
5		Vinyl Chloride	2.362	2.716	-15.0	95	-0.02
6		Bromomethane	1.030	1.150	-11.7	94	-0.01
7		Chloroethane	1.034	1.147	-10.9	94	-0.01
8		Trichlorofluoromethane (11)	5.891	7.255	-23.2	100	-0.01
9	M	1,1-Dichloroethene	3.860	4.120	-6.7	86	-0.01
10		Carbon Disulfide	4.977	5.724	-15.0	94	-0.01
11		1,1,2-Cl 1,2,2-F ethane (11	2.736	3.172	-15.9	95	-0.02
12		Acetone	4.127	5.221	-26.5	98	-0.01
13	M	Methylene Chloride	1.661	1.840	-10.8	93	-0.01
14		t-1,2-Dichloroethene	1.743	1.750	-0.4	83	-0.01
15		1,1-Dichloroethane	4.247	4.285	-0.9	82	-0.01
16		Vinyl Acetate	7.338	7.332	0.1	76	-0.01
17		c-1,2-Dichloroethene	1.862	1.868	-0.3	80	0.00
18		2-Butanone	0.864	0.938	-8.6	81	-0.01
19		t-Butyl Methyl Ether	5.165	5.384	-4.2	84	-0.01
20	t	Chloroform	4.562	4.758	-4.3	85	0.00
21		1,1,1-Trichloroethane	4.395	4.928	-12.1	93	0.00
22		1,1-Dichloropropene	3.265	3.767	-15.4	92	0.00
23	t	Carbon Tetrachloride	3.856	4.370	-13.3	94	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
25	T	Benzene	1.416	1.247	11.9	85	0.00
26	S	1,2-Dichloroethane-d4	0.425	0.385	9.4	99	0.00
27		1,2-Dichloroethane	0.876	0.838	4.3	92	0.00
28	M	Trichloroethene	0.491	0.422	14.1	84	0.00
29		1,2-Dichloropropane	0.604	0.532	11.9	87	-0.01
30		Bromodichloromethane	1.043	0.972	6.8	90	0.00
31		Dibromomethane	0.538	0.525	2.4	93	0.00
32		c-1,3-Dichloropropene	0.717	0.624	13.0	87	0.00
33		4-Methyl-2-Pentanone	1.151	1.032	10.3	84	0.00
34	S	Toluene-d8	0.728	0.647	11.1	85	0.00
35	M	Toluene	1.575	1.374	12.8	84	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
37		t-1,3-Dichloropropene	0.883	0.817	7.5	94	0.00
38		1,1,2-Trichloroethane	0.804	0.746	7.2	91	0.00
39		1,3-Dichloropropane	1.272	1.186	6.8	88	0.00
40		Tetrachloroethene	0.896	0.820	8.5	90	0.00
41		2-Hexanone	0.913	0.745	18.4	85	0.00
42		Dibromochloromethane	1.161	1.036	10.8	89	0.00
43	t	1,2-Dibromoethane	1.186	1.069	9.9	87	0.00
44		Chlorobenzene	1.649	1.556	5.6	93	0.00
45		1,1,1,2-Tetrachloroethane	0.788	0.793	-0.6	97	0.00
46	T	Ethylbenzene	3.007	2.746	8.7	85	0.00
47	T	p,&m-Xylene	2.300	2.248	2.3	90	0.00
48	T	o-Xylene	2.386	2.114	11.4	84	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\18OCT002.D Vial: 4
Acq On : 18 Oct 2011 9:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO110901.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Fri Sep 02 07:41:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.517	1.348	11.1	86	0.00
50		Bromoform	0.916	0.831	9.3	95	0.00
51		Isopropyl benzene	2.901	3.005	-3.6	92	0.00
52	M	1,1,2,2-Tetrachloroethane	1.813	1.739	4.1	99	0.00
53	S	4-Bromofluorobenzene	0.423	0.457	-8.0	105	0.00
54		Benzyl Chloride	1.386	1.147	17.2	113	0.00
55		1,2,3-Trichloropropane	0.547	0.569	-4.0	97	0.00
56		n-Propyl Benzene	3.353	3.257	2.9	87	0.00
57		Bromobenzene	1.781	1.776	0.3	91	0.00
58		4-Ethyl Toluene	2.934	2.552	13.0	82	0.00
59	T	1,3,5-Trimethylbenzene	2.587	2.274	12.1	89	0.00
60		2-Chlorotoluene	2.657	3.043	-14.5	105	0.00
61		4-Chlorotoluene	2.234	1.966	12.0	80	0.00
62		tert-Butylbenzene	2.160	2.061	4.6	88	0.00
63		1,2,4-Trimethylbenzene	2.426	2.338	3.6	92	0.00
64		sec-Butylbenzene	2.929	2.956	-0.9	90	0.00
65		p-Isopropyltoluene	1.959	1.892	3.4	85	0.00
66		1,3-Dichlorobenzene	1.362	1.217	10.6	91	0.00
67		1,4-Dichlorobenzene	1.332	1.166	12.5	91	0.00
68		n-Butylbenzene	1.921	1.848	3.8	85	0.00
69		1,2-Dichlorobenzene	1.294	1.148	11.3	93	0.00
70		1,2-Dibromo-3-chloropropane	0.296	0.229	22.6	83	0.00
71		1,2,4-Trichlorobenzene	0.641	0.391	39.0#	64	0.00
72		Hexachlorobutadiene	0.729	0.582	20.2	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111017\18OCT002.D Vial: 4
Acq On : 18 Oct 2011 9:22 Operator: DT
Sample : TO15 CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\AL110901.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Fri Sep 02 08:02:39 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	85	0.00
2		Propene	1.794	1.946	-8.5	94	0.02
3		isobutane	0.105	0.123	-17.1	96	0.02
4		1,3-Butadiene	1.725	1.913	-10.9	96	0.00
5		Methanol	0.289	0.266	8.0	148	0.00
6		Acetaldehyde	0.771	0.898	-16.5	93	0.00
7		Ethanol	0.623	0.964	-54.7#	112	0.00
8		Vinyl Bromide	0.911	0.818	10.2	74	0.00
9		Isopropanol	3.331	4.095	-22.9	94	0.00
10		Acrolein	0.670	0.781	-16.6	92	0.00
11		t-Butanol	3.100	3.739	-20.6	96	0.15
12		Allyl Chloride	2.347	2.586	-10.2	91	0.00
13		Acrylonitrile	1.555	1.632	-5.0	83	0.00
14		t-Butyl methyl ether	5.180	5.384	-3.9	84	0.00
15		n-Hexane	3.655	3.381	7.5	73	0.00
16		Isopropyl ether	7.035	6.800	3.3	75	0.00
17		t-Butyl ethyl ether	2.122	2.261	-6.6	86	0.00
18		Ethyl Acetate	0.519	0.510	1.7	80	0.00
19		2,2-Dichloropropane	3.014	3.760	-24.8	98	0.00
20		Tetrahydrofuran	0.875	0.830	5.1	76	0.00
21		Cyclohexane	3.721	3.757	-1.0	80	0.00
22		2,2,4-Trimethylpentane	12.053	13.390	-11.1	86	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
24	S	1,2-Dichloroethane-d4	0.371	0.383	-3.2	99	0.00
25		t-Amyl methyl ether	1.196	1.177	1.6	98	0.00
26		Heptane	0.496	0.417	15.9	81	0.00
27		1,4-Dioxane	0.289	0.266	8.0	82	0.00
28		2-chloroethylvinylether	0.010	0.007	30.0	97	0.00
29	S	Toluene-d8	0.724	0.643	11.2	84	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
31		Cyclohexanone	0.907	0.785	13.5	88	0.01
32	S	4-Bromofluorobenzene	0.765	0.773	-1.0	103	0.00
33		Dicyclopentadiene	0.028	0.030	-7.1	110	0.00
34		Naphthalene	1.594	0.859	46.1#	64	0.00
35		1,2,3-Trichlorobenzene	0.003	0.000	100.0#	0#	-22.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

C110702

AirTECHNOLOGY Laboratories, Inc.

November 22, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – ISVE System; E742
Lab Number: C110702-01/10

Enclosed are results for sample(s) received 11/07/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Isopropanol recovery in the continuing calibration verification was high. Results in the samples were ND and were not affected.
- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Total Number of Pages: 198

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME

Standard	☒	48 hours	☐
Same Day	☐	72 hours	☐
24 hours	☐	96 hours	☐
Other:			

DELIVERABLES

EDD	☐
EDF	☐
LEVEL 3	☐
LEVEL 4	☐

PAGE: OF

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.: E742
Project Name: Omega - ISVE System
Report To: Ken Hawlett
Company: da maximis Inc.
Street: 1322 Scott Street, Suite 104
City/State/Zip: San Diego, CA. 92106
Phone& Fax: (310) 926-5368
e-mail: khawlett@damaximis.com

BILLING

P.O. No.:
Bill to: da maximis, Inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	TO-15 (TAL 2.4)					
C110702-01	OC_SVE_VE-1S_11711	11/7/11	1305	Air	Summa	X					
-02	OC_SVE_VE-5S_11711	11/7/11	1307	Air	Summa	X					
-03	OC_SVE_VE-6S_11711	11/7/11	1309	Air	Summa	X					
-04	OC_SVE_VE-8S_11711	11/7/11	1335	Air	Summa	X					
-05	OC_SVE_VE-9S_11711	11/7/11	1337	Air	Summa	X					
-06	OC_SVE_VE-10S_11711	11/7/11	1339	Air	Summa	X					
-07	OC_SVE_VE-11S_11711	11/7/11	1345	Air	Summa	X					
-08	OC_SVE_VE-12S_11711	11/7/11	1347	Air	Summa	X					
-09	OC_SVE_VE-14S_11711	11/7/11	1355	Air	Summa	X					
-10	OC_SVE_VE-15S_11711	11/7/11	1357	Air	Summa	X					

AUTHORIZATION TO PERFORM WORK: Carlton Hamm Jr.	COMPANY: JHA.	DATE/TIME: 11/7/11	
SAMPLED BY: Carlton Hamm Jr	COMPANY: JHA.	DATE/TIME: 11/7/11	
RELINQUISHED BY: [signature]	DATE/TIME: 11/7/11 1505	RECEIVED BY: DON THOMPSON	DATE/TIME: 11/7/11 1505
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-in FedEx UPS Courier ATLI Other _____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCL **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other

Rev. 03 - 5/7/09

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110702-01			C110702-02			C110702-03			C110702-04		
Client Sample I.D.:	OC_SVE_VE-1S_11711			OC_SVE_VE-5S_11711			OC_SVE_VE-6S_11711			OC_SVE_VE-8S_11711		
Date Sampled:	11/07/11			11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/18/11			11/18/11			11/18/11		
QC Batch No.:	111119MS2A1			111118MS2A1			111118MS2A1			111118MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.2			2.1			110		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.73 J	2.1	0.100	0.65 J	2.2	0.10	ND	2.1	0.100	ND	110	5.2
Chloromethane	1.0 J	4.2	0.70	ND	4.4	0.73	ND	4.2	0.70	ND	220	37
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.1	0.27	ND	2.2	0.28	ND	2.1	0.27	ND	110	14
Vinyl Chloride	ND	2.1	0.47	ND	2.2	0.49	ND	2.1	0.47	ND	110	24
Bromomethane	ND	2.1	0.23	ND	2.2	0.25	ND	2.1	0.23	ND	110	12
Chloroethane	ND	2.1	0.76	ND	2.2	0.80	ND	2.1	0.76	ND	110	40
Trichlorofluoromethane (11)	ND	2.1	0.86	ND	2.2	0.90	ND	2.1	0.86	ND	110	45
1,1-Dichloroethene	ND	2.1	0.23	ND	2.2	0.24	ND	2.1	0.23	72 J	110	12
Carbon Disulfide	ND	11	0.31	ND	11	0.33	ND	11	0.31	ND	550	16
1,1,2-Cl 1,2,2-F ethane (113)	ND	2.1	0.48	ND	2.2	0.51	ND	2.1	0.48	180	110	25
Acetone	9.5 J	11	0.66	20	11	0.69	7.9 J	11	0.66	230 J	550	34
Methylene Chloride	ND	2.1	0.41	ND	2.2	0.43	ND	2.1	0.41	ND	110	22
t-1,2-Dichloroethene	ND	2.1	0.34	ND	2.2	0.36	ND	2.1	0.34	ND	110	18
1,1-Dichloroethane	ND	2.1	0.25	ND	2.2	0.26	ND	2.1	0.25	ND	110	13
Vinyl Acetate	ND	11	0.37	ND	11	0.38	ND	11	0.37	ND	550	19
c-1,2-Dichloroethene	ND	2.1	0.46	ND	2.2	0.48	ND	2.1	0.46	ND	110	24
2-Butanone	ND	2.1	0.53	ND	2.2	0.56	ND	2.1	0.53	ND	110	28
t-Butyl Methyl Ether (MTBE)	ND	2.1	0.42	ND	2.2	0.44	ND	2.1	0.42	ND	110	22
Chloroform	ND	2.1	0.29	ND	2.2	0.31	ND	2.1	0.29	25 J	110	15
1,1,1-Trichloroethane	ND	2.1	0.24	ND	2.2	0.25	ND	2.1	0.24	92 J	110	13
Carbon Tetrachloride	ND	2.1	0.24	ND	2.2	0.25	ND	2.1	0.24	ND	110	13
Benzene	0.68 J	2.1	0.41	0.75 J	2.2	0.43	0.69 J	2.1	0.41	ND	110	22
1,2-Dichloroethane	ND	2.1	0.55	ND	2.2	0.58	ND	2.1	0.55	93 J	110	29
Trichloroethene	ND	2.1	0.33	ND	2.2	0.34	ND	2.1	0.33	140	110	17
1,2-Dichloropropane	ND	2.1	0.27	ND	2.2	0.28	ND	2.1	0.27	ND	110	14
Bromodichloromethane	ND	2.1	0.32	ND	2.2	0.33	ND	2.1	0.32	ND	110	16
c-1,3-Dichloropropene	ND	2.1	0.47	ND	2.2	0.49	ND	2.1	0.47	ND	110	25
4-Methyl-2-Pentanone	ND	2.1	0.099	ND	2.2	0.10	ND	2.1	0.099	82 J	110	5.2
Toluene	0.77 J	2.1	0.27	0.87 J	2.2	0.28	1.00 J	2.1	0.27	41 J	110	14
t-1,3-Dichloropropene	ND	2.1	0.26	ND	2.2	0.27	ND	2.1	0.26	ND	110	13
1,1,2-Trichloroethane	ND	2.1	0.43	ND	2.2	0.45	ND	2.1	0.43	ND	110	22
Tetrachloroethene	ND	2.1	0.24	1.2 J	2.2	0.25	ND	2.1	0.24	22,000	110	12
2-Hexanone	ND	2.1	0.21	ND	2.2	0.22	ND	2.1	0.21	ND	110	11
Dibromochloromethane	ND	2.1	0.36	ND	2.2	0.38	ND	2.1	0.36	ND	110	19
1,2-Dibromoethane	ND	2.1	0.28	ND	2.2	0.29	ND	2.1	0.28	ND	110	14
Chlorobenzene	ND	2.1	0.30	ND	2.2	0.32	ND	2.1	0.30	ND	110	16

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

PAGE 06/13

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110702-01			C110702-02			C110702-03			C110702-04		
Client Sample I.D.:	OC_SVE_VE-1S_11711			OC_SVE_VE-5S_11711			OC_SVE_VE-6S_11711			OC_SVE_VE-8S_11711		
Date Sampled:	11/07/11			11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/18/11			11/18/11			11/18/11		
QC Batch No.:	111119MS2A1			111118MS2A1			111118MS2A1			111118MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.2			2.1			110		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	2.1	0.064	ND	2.2	0.067	ND	2.1	0.064	19 J	110	3.3
p,&m-Xylene	ND	2.1	0.48	0.51 J	2.2	0.50	ND	2.1	0.48	170	110	25
o-Xylene	ND	2.1	0.29	ND	2.2	0.30	ND	2.1	0.29	76 J	110	15
Isopropanol	ND	11	1.4	ND	11	1.5	ND	11	1.4	ND	550	75
n-Hexane	ND	11	0.53	ND	11	0.55	ND	11	0.53	ND	550	28
1,4-Dioxane	ND	11	1.4	ND	11	1.4	ND	11	1.4	ND	550	72
Total VOC's	13			24			9.6			23,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	89%	70-130%	85%	70-130%	88%	70-130%	90%	70-130%
Toluene-d8	92%	70-130%	94%	70-130%	97%	70-130%	96%	70-130%
4-Bromofluorobenzene	90%	70-130%	93%	70-130%	93%	70-130%	101%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 11/21/11
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110702-05			C110702-06			C110702-07			C110702-08		
Client Sample I.D.:	OC_SVE_VE-9S_11711			OC_SVE_VE-10S_11711			OC_SVE_VE-11S_11711			OC_SVE_VE-12S_11711		
Date Sampled:	11/07/11			11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/18/11			11/18/11			11/18/11			11/19/11		
QC Batch No.:	111118MS2A1			111118MS2A1			111118MS2A1			111119MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.2			2.2			2.2			2.2		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.76 J	2.2	0.10	ND	2.2	0.10	0.69 J	2.2	0.10	0.76 J	2.2	0.10
Chloromethane	0.84 J	4.3	0.72	ND	4.4	0.73	ND	4.4	0.73	ND	4.3	0.72
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.2	0.28	ND	2.2	0.28	ND	2.2	0.28	ND	2.2	0.28
Vinyl Chloride	ND	2.2	0.48	ND	2.2	0.49	ND	2.2	0.49	ND	2.2	0.48
Bromomethane	ND	2.2	0.24	ND	2.2	0.25	ND	2.2	0.25	ND	2.2	0.24
Chloroethane	ND	2.2	0.78	ND	2.2	0.80	ND	2.2	0.80	ND	2.2	0.78
Trichlorofluoromethane (11)	ND	2.2	0.88	ND	2.2	0.90	ND	2.2	0.90	ND	2.2	0.88
1,1-Dichloroethene	ND	2.2	0.23	ND	2.2	0.24	ND	2.2	0.24	ND	2.2	0.23
Carbon Disulfide	ND	11	0.32	ND	11	0.33	ND	11	0.33	ND	11	0.32
1,1,2-Cl 1,2,2-F ethane (113)	ND	2.2	0.49	ND	2.2	0.51	ND	2.2	0.51	ND	2.2	0.49
Acetone	12	11	0.67	13	11	0.69	6.1 J	11	0.69	11	11	0.67
Methylene Chloride	ND	2.2	0.42	ND	2.2	0.43	ND	2.2	0.43	ND	2.2	0.42
t-1,2-Dichloroethene	ND	2.2	0.35	ND	2.2	0.36	ND	2.2	0.36	ND	2.2	0.35
1,1-Dichloroethane	ND	2.2	0.25	ND	2.2	0.26	ND	2.2	0.26	ND	2.2	0.25
Vinyl Acetate	ND	11	0.37	ND	11	0.38	ND	11	0.38	ND	11	0.37
c-1,2-Dichloroethene	ND	2.2	0.47	ND	2.2	0.48	ND	2.2	0.48	ND	2.2	0.47
2-Butanone	ND	2.2	0.55	ND	2.2	0.56	ND	2.2	0.56	ND	2.2	0.55
t-Butyl Methyl Ether (MTBE)	ND	2.2	0.43	ND	2.2	0.44	ND	2.2	0.44	ND	2.2	0.43
Chloroform	ND	2.2	0.30	ND	2.2	0.31	ND	2.2	0.31	ND	2.2	0.30
1,1,1-Trichloroethane	ND	2.2	0.24	ND	2.2	0.25	ND	2.2	0.25	ND	2.2	0.24
Carbon Tetrachloride	ND	2.2	0.25	ND	2.2	0.25	ND	2.2	0.25	ND	2.2	0.25
Benzene	0.53 J	2.2	0.42	0.67 J	2.2	0.43	0.44 J	2.2	0.43	ND	2.2	0.42
1,2-Dichloroethane	ND	2.2	0.56	ND	2.2	0.58	ND	2.2	0.58	ND	2.2	0.56
Trichloroethene	ND	2.2	0.33	ND	2.2	0.34	ND	2.2	0.34	ND	2.2	0.33
1,2-Dichloropropane	ND	2.2	0.27	ND	2.2	0.28	ND	2.2	0.28	ND	2.2	0.27
Bromodichloromethane	ND	2.2	0.32	ND	2.2	0.33	ND	2.2	0.33	ND	2.2	0.32
c-1,3-Dichloropropene	ND	2.2	0.48	ND	2.2	0.49	ND	2.2	0.49	ND	2.2	0.48
4-Methyl-2-Pentanone	ND	2.2	0.10	ND	2.2	0.10	ND	2.2	0.10	ND	2.2	0.10
Toluene	0.50 J	2.2	0.27	0.47 J	2.2	0.28	0.44 J	2.2	0.28	0.40 J	2.2	0.27
t-1,3-Dichloropropene	ND	2.2	0.26	ND	2.2	0.27	ND	2.2	0.27	ND	2.2	0.26
1,1,2-Trichloroethane	ND	2.2	0.44	ND	2.2	0.45	ND	2.2	0.45	ND	2.2	0.44
Tetrachloroethene	ND	2.2	0.24	ND	2.2	0.25	ND	2.2	0.25	ND	2.2	0.24
2-Hexanone	ND	2.2	0.22	ND	2.2	0.22	ND	2.2	0.22	ND	2.2	0.22
Dibromochloromethane	ND	2.2	0.37	ND	2.2	0.38	ND	2.2	0.38	ND	2.2	0.37
1,2-Dibromoethane	ND	2.2	0.28	ND	2.2	0.29	ND	2.2	0.29	ND	2.2	0.28
Chlorobenzene	ND	2.2	0.31	ND	2.2	0.32	ND	2.2	0.32	ND	2.2	0.31

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

PAGE 005

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110702-05			C110702-06			C110702-07			C110702-08		
Client Sample I.D.:	OC_SVE_VE-9S_11711			OC_SVE_VE-10S_11711			OC_SVE_VE-11S_11711			OC_SVE_VE-12S_11711		
Date Sampled:	11/07/11			11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/18/11			11/18/11			11/18/11			11/19/11		
QC Batch No.:	111118MS2A1			111118MS2A1			111118MS2A1			111119MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.2			2.2			2.2			2.2		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	2.2	0.065	ND	2.2	0.067	ND	2.2	0.067	ND	2.2	0.065
p,&m-Xylene	ND	2.2	0.49	ND	2.2	0.50	ND	2.2	0.50	ND	2.2	0.49
o-Xylene	ND	2.2	0.30	ND	2.2	0.30	ND	2.2	0.30	ND	2.2	0.30
Isopropanol	ND	11	1.5	ND	11	1.5	ND	11	1.5	ND	11	1.5
n-Hexane	ND	11	0.54	ND	11	0.55	ND	11	0.55	ND	11	0.54
1,4-Dioxane	ND	11	1.4	ND	11	1.4	ND	11	1.4	ND	11	1.4
Total VOC's	15			14			7.7			12		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	84%	70-130%	90%	70-130%	93%	70-130%	93%	70-130%
Toluene-d8	90%	70-130%	93%	70-130%	95%	70-130%	97%	70-130%
4-Bromofluorobenzene	91%	70-130%	95%	70-130%	90%	70-130%	96%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 11/21/11
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

PAGE 005

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110702-09			C110702-10		
Client Sample I.D.:	OC_SVE_VE-14S_11711			OC_SVE_VE-15S_11711		
Date Sampled:	11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/19/11		
QC Batch No.:	111119MS2A1			111119MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	2.1			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	ND	2.1	0.100	ND	2.1	0.100
Chloromethane	ND	4.2	0.70	ND	4.2	0.70
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.1	0.27	ND	2.1	0.27
Vinyl Chloride	ND	2.1	0.47	ND	2.1	0.47
Bromomethane	ND	2.1	0.23	ND	2.1	0.23
Chloroethane	ND	2.1	0.76	ND	2.1	0.76
Trichlorofluoromethane (11)	ND	2.1	0.86	6.9	2.1	0.86
1,1-Dichloroethene	ND	2.1	0.23	51	2.1	0.23
Carbon Disulfide	ND	11	0.31	ND	11	0.31
1,1,2-Cl 1,2,2-F ethane (113)	ND	2.1	0.48	9.6	2.1	0.48
Acetone	23	11	0.66	11	11	0.66
Methylene Chloride	ND	2.1	0.41	ND	2.1	0.41
t-1,2-Dichloroethene	ND	2.1	0.34	ND	2.1	0.34
1,1-Dichloroethane	ND	2.1	0.25	ND	2.1	0.25
Vinyl Acetate	ND	11	0.37	ND	11	0.37
c-1,2-Dichloroethene	ND	2.1	0.46	ND	2.1	0.46
2-Butanone	ND	2.1	0.53	ND	2.1	0.53
t-Butyl Methyl Ether (MTBE)	ND	2.1	0.42	ND	2.1	0.42
Chloroform	ND	2.1	0.29	0.87 J	2.1	0.29
1,1,1-Trichloroethane	ND	2.1	0.24	ND	2.1	0.24
Carbon Tetrachloride	ND	2.1	0.24	ND	2.1	0.24
Benzene	0.88 J	2.1	0.41	0.68 J	2.1	0.41
1,2-Dichloroethane	ND	2.1	0.55	1.0 J	2.1	0.55
Trichloroethene	ND	2.1	0.33	120	2.1	0.33
1,2-Dichloropropane	ND	2.1	0.27	ND	2.1	0.27
Bromodichloromethane	ND	2.1	0.32	ND	2.1	0.32
c-1,3-Dichloropropene	ND	2.1	0.47	ND	2.1	0.47
4-Methyl-2-Pentanone	ND	2.1	0.099	ND	2.1	0.099
Toluene	1.0 J	2.1	0.27	0.52 J	2.1	0.27
t-1,3-Dichloropropene	ND	2.1	0.26	ND	2.1	0.26
1,1,2-Trichloroethane	ND	2.1	0.43	ND	2.1	0.43
Tetrachloroethene	ND	2.1	0.24	140	2.1	0.24
2-Hexanone	ND	2.1	0.21	ND	2.1	0.21
Dibromochloromethane	ND	2.1	0.36	ND	2.1	0.36
1,2-Dibromoethane	ND	2.1	0.28	ND	2.1	0.28
Chlorobenzene	ND	2.1	0.30	ND	2.1	0.30

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18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

PAGE 007

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C110702-09			C110702-10		
Client Sample I.D.:	OC_SVE_VE-14S_11711			OC_SVE_VE-15S_11711		
Date Sampled:	11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/19/11		
QC Batch No.:	111119MS2A1			111119MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	2.1			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	2.1	0.064	ND	2.1	0.064
p,&m-Xylene	0.51 J	2.1	0.48	0.54 J	2.1	0.48
o-Xylene	ND	2.1	0.29	ND	2.1	0.29
Isopropanol	ND	11	1.4	ND	11	1.4
n-Hexane	0.57 J	11	0.53	ND	11	0.53
1,4-Dioxane	ND	11	1.4	ND	11	1.4
Total VOC's	26			340		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	96%	70-130%	94%	70-130%
Toluene-d8	94%	70-130%	93%	70-130%
4-Bromofluorobenzene	95%	70-130%	89%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 11/21/11
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

PAGE 006

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110702-01			C110702-02			C110702-03			C110702-04		
Client Sample I.D.:	OC_SVE_VE-1S_11711			OC_SVE_VE-5S_11711			OC_SVE_VE-6S_11711			OC_SVE_VE-8S_11711		
Date Sampled:	11/07/11			11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/18/11			11/18/11			11/18/11		
QC Batch No.:	111119MS2A1			111118MS2A1			111118MS2A1			111118MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.2			2.1			110		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.6 J	10	0.49	3.2 J	11	0.52	ND	10	0.49	ND	540	26
Chloromethane	2.1 J	8.7	1.4	ND	9.1	1.5	ND	8.7	1.4	ND	450	76
1,2-Cl-1,1,2,2-F ethane (114)	ND	15	1.9	ND	15	2.0	ND	15	1.9	ND	770	99
Vinyl Chloride	ND	5.4	1.2	ND	5.6	1.2	ND	5.4	1.2	ND	280	62
Bromomethane	ND	8.2	0.91	ND	8.5	0.95	ND	8.2	0.91	ND	430	48
Chloroethane	ND	5.6	2.0	ND	5.8	2.1	ND	5.6	2.0	ND	290	110
Trichlorofluoromethane (11)	ND	12	4.8	ND	12	5.1	ND	12	4.8	ND	620	250
1,1-Dichloroethene	ND	8.4	0.90	ND	8.7	0.94	ND	8.4	0.90	280 J	440	47
Carbon Disulfide	ND	33	0.97	ND	34	1.0	ND	33	0.97	ND	1,700	51
1,1,2-Cl 1,2,2-F ethane (113)	ND	16	3.7	ND	17	3.9	ND	16	3.7	1,400	840	190
Acetone	23 J	25	1.6	48	26	1.6	19 J	25	1.6	540 J	1,300	82
Methylene Chloride	ND	7.3	1.4	ND	7.6	1.5	ND	7.3	1.4	ND	380	75
t-1,2-Dichloroethene	ND	8.4	1.4	ND	8.7	1.4	ND	8.4	1.4	ND	440	70
1,1-Dichloroethane	ND	8.5	1.0	ND	8.9	1.1	ND	8.5	1.0	ND	440	53
Vinyl Acetate	ND	37	1.3	ND	39	1.3	ND	37	1.3	ND	1,900	67
c-1,2-Dichloroethene	ND	8.4	1.8	ND	8.7	1.9	ND	8.4	1.8	ND	440	96
2-Butanone	ND	6.2	1.6	ND	6.5	1.6	ND	6.2	1.6	ND	320	82
t-Butyl Methyl Ether (MTBE)	ND	7.6	1.5	ND	7.9	1.6	ND	7.6	1.5	ND	400	79
Chloroform	ND	10	1.4	ND	11	1.5	ND	10	1.4	120 J	540	74
1,1,1-Trichloroethane	ND	11	1.3	ND	12	1.4	ND	11	1.3	500 J	600	68
Carbon Tetrachloride	ND	13	1.5	ND	14	1.6	ND	13	1.5	ND	690	79
Benzene	2.2 J	6.7	1.3	2.4 J	7.0	1.4	2.2 J	6.7	1.3	ND	350	69
1,2-Dichloroethane	ND	8.5	2.2	ND	8.9	2.3	ND	8.5	2.2	380 J	440	120
Trichloroethene	ND	11	1.8	ND	12	1.8	ND	11	1.8	740	590	92
1,2-Dichloropropane	ND	9.7	1.2	ND	10	1.3	ND	9.7	1.2	ND	510	64
Bromodichloromethane	ND	14	2.1	ND	15	2.2	ND	14	2.1	ND	740	110
c-1,3-Dichloropropene	ND	9.6	2.2	ND	10.0	2.2	ND	9.6	2.2	ND	500	110
4-Methyl-2-Pentanone	ND	8.6	0.41	ND	9.0	0.43	ND	8.6	0.41	340 J	450	21
Toluene	2.9 J	7.9	1.0	3.3 J	8.3	1.1	3.8 J	7.9	1.0	150 J	410	53
t-1,3-Dichloropropene	ND	9.6	1.2	ND	10.0	1.2	ND	9.6	1.2	ND	500	61
1,1,2-Trichloroethane	ND	11	2.4	ND	12	2.5	ND	11	2.4	ND	600	120
Tetrachloroethene	ND	14	1.6	7.9 J	15	1.7	ND	14	1.6	150,000	750	84
2-Hexanone	ND	8.6	0.87	ND	9.0	0.91	ND	8.6	0.87	ND	450	46
Dibromochloromethane	ND	18	3.1	ND	19	3.2	ND	18	3.1	ND	940	160
1,2-Dibromoethane	ND	16	2.1	ND	17	2.2	ND	16	2.1	ND	840	110
Chlorobenzene	ND	9.7	1.4	ND	10	1.5	ND	9.7	1.4	ND	510	73

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110702-01			C110702-02			C110702-03			C110702-04		
Client Sample I.D.:	OC_SVE_VE-1S_11711			OC_SVE_VE-5S_11711			OC_SVE_VE-6S_11711			OC_SVE_VE-8S_11711		
Date Sampled:	11/07/11			11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/18/11			11/18/11			11/18/11		
QC Batch No.:	111119MS2A1			111118MS2A1			111118MS2A1			111118MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.2			2.1			110		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	9.1	0.28	ND	9.5	0.29	ND	9.1	0.28	84 J	480	14
p,&m-Xylene	ND	9.1	2.1	2.2 J	9.5	2.2	ND	9.1	2.1	760	480	110
o-Xylene	ND	9.1	1.3	ND	9.5	1.3	ND	9.1	1.3	330 J	480	66
Isopropanol	ND	26	3.5	ND	27	3.7	ND	26	3.5	ND	1,400	180
n-Hexane	ND	37	1.9	ND	39	2.0	ND	37	1.9	ND	1,900	98
1,4-Dioxane	ND	38	5.0	ND	40	5.2	ND	38	5.0	ND	2,000	260
Total VOC's	34			67			25			160,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	89%	70-130%	85%	70-130%	88%	70-130%	90%	70-130%
Toluene-d8	92%	70-130%	94%	70-130%	97%	70-130%	96%	70-130%
4-Bromofluorobenzene	90%	70-130%	93%	70-130%	93%	70-130%	101%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 11/21/11

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110702-05			C110702-06			C110702-07			C110702-08		
Client Sample I.D.:	OC_SVE_VE-9S_11711			OC_SVE_VE-10S_11711			OC_SVE_VE-11S_11711			OC_SVE_VE-12S_11711		
Date Sampled:	11/07/11			11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/18/11			11/18/11			11/18/11			11/19/11		
QC Batch No.:	111118MS2A1			111118MS2A1			111118MS2A1			111119MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.2			2.2			2.2			2.2		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.7 J	11	0.51	ND	11	0.52	3.4 J	11	0.52	3.8 J	11	0.51
Chloromethane	1.7 J	8.9	1.5	ND	9.1	1.5	ND	9.1	1.5	ND	8.9	1.5
1,2-Cl-1,1,2,2-F ethane (114)	ND	15	1.9	ND	15	2.0	ND	15	2.0	ND	15	1.9
Vinyl Chloride	ND	5.5	1.2	ND	5.6	1.2	ND	5.6	1.2	ND	5.5	1.2
Bromomethane	ND	8.4	0.93	ND	8.5	0.95	ND	8.5	0.95	ND	8.4	0.93
Chloroethane	ND	5.7	2.1	ND	5.8	2.1	ND	5.8	2.1	ND	5.7	2.1
Trichlorofluoromethane (11)	ND	12	4.9	ND	12	5.1	ND	12	5.1	ND	12	4.9
1,1-Dichloroethene	ND	8.5	0.92	ND	8.7	0.94	ND	8.7	0.94	ND	8.5	0.92
Carbon Disulfide	ND	33	0.99	ND	34	1.0	ND	34	1.0	ND	33	0.99
1,1,2-Cl 1,2,2-F ethane (113)	ND	16	3.8	ND	17	3.9	ND	17	3.9	ND	16	3.8
Acetone	27	26	1.6	31	26	1.6	14 J	26	1.6	27	26	1.6
Methylene Chloride	ND	7.5	1.5	ND	7.6	1.5	ND	7.6	1.5	ND	7.5	1.5
t-1,2-Dichloroethene	ND	8.5	1.4	ND	8.7	1.4	ND	8.7	1.4	ND	8.5	1.4
1,1-Dichloroethane	ND	8.7	1.0	ND	8.9	1.1	ND	8.9	1.1	ND	8.7	1.0
Vinyl Acetate	ND	38	1.3	ND	39	1.3	ND	39	1.3	ND	38	1.3
c-1,2-Dichloroethene	ND	8.5	1.9	ND	8.7	1.9	ND	8.7	1.9	ND	8.5	1.9
2-Butanone	ND	6.3	1.6	ND	6.5	1.6	ND	6.5	1.6	ND	6.3	1.6
t-Butyl Methyl Ether (MTBE)	ND	7.8	1.5	ND	7.9	1.6	ND	7.9	1.6	ND	7.8	1.5
Chloroform	ND	11	1.5	ND	11	1.5	ND	11	1.5	ND	11	1.5
1,1,1-Trichloroethane	ND	12	1.3	ND	12	1.4	ND	12	1.4	ND	12	1.3
Carbon Tetrachloride	ND	14	1.6	ND	14	1.6	ND	14	1.6	ND	14	1.6
Benzene	1.7 J	6.9	1.3	2.1 J	7.0	1.4	1.4 J	7.0	1.4	ND	6.9	1.3
1,2-Dichloroethane	ND	8.7	2.3	ND	8.9	2.3	ND	8.9	2.3	ND	8.7	2.3
Trichloroethene	ND	12	1.8	ND	12	1.8	ND	12	1.8	ND	12	1.8
1,2-Dichloropropane	ND	9.9	1.3	ND	10	1.3	ND	10	1.3	ND	9.9	1.3
Bromodichloromethane	ND	14	2.2	ND	15	2.2	ND	15	2.2	ND	14	2.2
c-1,3-Dichloropropene	ND	9.8	2.2	ND	10.0	2.2	ND	10.0	2.2	ND	9.8	2.2
4-Methyl-2-Pentanone	ND	8.8	0.42	ND	9.0	0.43	ND	9.0	0.43	ND	8.8	0.42
Toluene	1.9 J	8.1	1.0	1.8 J	8.3	1.1	1.7 J	8.3	1.1	1.5 J	8.1	1.0
t-1,3-Dichloropropene	ND	9.8	1.2	ND	10.0	1.2	ND	10.0	1.2	ND	9.8	1.2
1,1,2-Trichloroethane	ND	12	2.4	ND	12	2.5	ND	12	2.5	ND	12	2.4
Tetrachloroethene	ND	15	1.6	ND	15	1.7	ND	15	1.7	ND	15	1.6
2-Hexanone	ND	8.8	0.89	ND	9.0	0.91	ND	9.0	0.91	ND	8.8	0.89
Dibromochloromethane	ND	18	3.2	ND	19	3.2	ND	19	3.2	ND	18	3.2
1,2-Dibromoethane	ND	17	2.2	ND	17	2.2	ND	17	2.2	ND	17	2.2
Chlorobenzene	ND	9.9	1.4	ND	10	1.5	ND	10	1.5	ND	9.9	1.4

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110702-05			C110702-06			C110702-07			C110702-08		
Client Sample I.D.:	OC_SVE_VE-9S_11711			OC_SVE_VE-10S_11711			OC_SVE_VE-11S_11711			OC_SVE_VE-12S_11711		
Date Sampled:	11/07/11			11/07/11			11/07/11			11/07/11		
Date Analyzed:	11/18/11			11/18/11			11/18/11			11/19/11		
QC Batch No.:	111118MS2A1			111118MS2A1			111118MS2A1			111119MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.2			2.2			2.2			2.2		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	9.3	0.28	ND	9.5	0.29	ND	9.5	0.29	ND	9.3	0.28
p,&m-Xylene	ND	9.3	2.1	ND	9.5	2.2	ND	9.5	2.2	ND	9.3	2.1
o-Xylene	ND	9.3	1.3	ND	9.5	1.3	ND	9.5	1.3	ND	9.3	1.3
Isopropanol	ND	26	3.6	ND	27	3.7	ND	27	3.7	ND	26	3.6
n-Hexane	ND	38	1.9	ND	39	2.0	ND	39	2.0	ND	38	1.9
1,4-Dioxane	ND	39	5.1	ND	40	5.2	ND	40	5.2	ND	39	5.1
Total VOC's	36			35			21			32		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	84%	70-130%	90%	70-130%	93%	70-130%	93%	70-130%
Toluene-d8	90%	70-130%	93%	70-130%	95%	70-130%	97%	70-130%
4-Bromofluorobenzene	91%	70-130%	95%	70-130%	90%	70-130%	96%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amouut. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 11/21/11

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110702-09			C110702-10		
Client Sample I.D.:	OC_SVE_VE-14S_11711			OC_SVE_VE-15S_11711		
Date Sampled:	11/07/11			11/07/11		
Date Analyzed:	11/19/11			11/19/11		
QC Batch No.:	111119MS2A1			111119MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	2.1			2.1		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	ND	10	0.49	ND	10	0.49
Chloromethane	ND	8.7	1.4	ND	8.7	1.4
1,2-Cl-1,1,2,2-F ethane (114)	ND	15	1.9	ND	15	1.9
Vinyl Chloride	ND	5.4	1.2	ND	5.4	1.2
Bromomethane	ND	8.2	0.91	ND	8.2	0.91
Chloroethane	ND	5.6	2.0	ND	5.6	2.0
Trichlorofluoromethane (11)	ND	12	4.8	39	12	4.8
1,1-Dichloroethene	ND	8.4	0.90	200	8.4	0.90
Carbon Disulfide	ND	33	0.97	ND	33	0.97
1,1,2-Cl 1,2,2-F ethane (113)	ND	16	3.7	73	16	3.7
Acetone	55	25	1.6	27	25	1.6
Methylene Chloride	ND	7.3	1.4	ND	7.3	1.4
t-1,2-Dichloroethene	ND	8.4	1.4	ND	8.4	1.4
1,1-Dichloroethane	ND	8.5	1.0	ND	8.5	1.0
Vinyl Acetate	ND	37	1.3	ND	37	1.3
c-1,2-Dichloroethene	ND	8.4	1.8	ND	8.4	1.8
2-Butanone	ND	6.2	1.6	ND	6.2	1.6
t-Butyl Methyl Ether (MTBE)	ND	7.6	1.5	ND	7.6	1.5
Chloroform	ND	10	1.4	4.2 J	10	1.4
1,1,1-Trichloroethane	ND	11	1.3	ND	11	1.3
Carbon Tetrachloride	ND	13	1.5	ND	13	1.5
Benzene	2.8 J	6.7	1.3	2.2 J	6.7	1.3
1,2-Dichloroethane	ND	8.5	2.2	4.1 J	8.5	2.2
Trichloroethene	ND	11	1.8	650	11	1.8
1,2-Dichloropropane	ND	9.7	1.2	ND	9.7	1.2
Bromodichloromethane	ND	14	2.1	ND	14	2.1
c-1,3-Dichloropropene	ND	9.6	2.2	ND	9.6	2.2
4-Methyl-2-Pentanone	ND	8.6	0.41	ND	8.6	0.41
Toluene	3.8 J	7.9	1.0	2.0 J	7.9	1.0
t-1,3-Dichloropropene	ND	9.6	1.2	ND	9.6	1.2
1,1,2-Trichloroethane	ND	11	2.4	ND	11	2.4
Tetrachloroethene	ND	14	1.6	980	14	1.6
2-Hexanone	ND	8.6	0.87	ND	8.6	0.87
Dibromochloromethane	ND	18	3.1	ND	18	3.1
1,2-Dibromoethane	ND	16	2.1	ND	16	2.1
Chlorobenzene	ND	9.7	1.4	ND	9.7	1.4

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 11/07/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C110702-09			C110702-10								
Client Sample I.D.:	OC_SVE_VE-14S_11711			OC_SVE_VE-15S_11711								
Date Sampled:	11/07/11			11/07/11								
Date Analyzed:	11/19/11			11/19/11								
QC Batch No.:	111119MS2A1			111119MS2A1								
Analyst Initials:	DT			DT								
Dilution Factor:	2.1			2.1								
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3						
Ethylbenzene	ND	9.1	0.28	ND	9.1	0.28						
p,&m-Xylene	2.2 J	9.1	2.1	2.4 J	9.1	2.1						
o-Xylene	ND	9.1	1.3	ND	9.1	1.3						
Isopropanol	ND	26	3.5	ND	26	3.5						
n-Hexane	2.0 J	37	1.9	ND	37	1.9						
1,4-Dioxane	ND	38	5.0	ND	38	5.0						
Total VOC's	66			2,000								

Surrogate	Result	QC Criteria	Result	QC Criteria				
1,2-Dichloroethane-d4	96%	70-130%	94%	70-130%				
Toluene-d8	94%	70-130%	93%	70-130%				
4-Bromofluorobenzene	95%	70-130%	89%	70-130%				

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager

Date 11/21/11

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111118MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	11/18/11		11/18/11		11/18/11						
Data File ID:	18NOV015.D		18NOV008.D		18NOV009.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.0	110	11.1	111	0.5	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.9	109	10.3	103	5.5	70	130	30	Pass
Trichloroethene	0.0	10.0	9.6	96	9.7	97	0.6	70	130	30	Pass
Toluene	0.0	10.0	9.2	92	9.2	92	0.4	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.5	115	11.5	115	0.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 11/21/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111119MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	11/19/11		11/19/11		11/19/11						
Data File ID:	19NOV006.D		19NOV004.D		19NOV013.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.3	113	11.4	114	1.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.2	112	11.1	111	1.3	70	130	30	Pass
Trichloroethene	0.0	10.0	10.3	103	10.0	100	2.7	70	130	30	Pass
Toluene	0.0	10.0	9.3	93	9.6	96	3.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.9	119	11.4	114	4.6	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 11/21/11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY
Laboratories, Inc.

January 11, 2012

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – ISVE System; E742
Lab Number: C122106-01/10

Enclosed are **revised** results for sample(s) received 12/21/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Report revised to correct a laboratory generated error in the sample identifications, as indicated by the client.
- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Total Number of Pages: 29

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 1 OF 1
Standard ■	48 hours ☐	EDD ■	Condition upon receipt:
Same Day ☐	72 hours ☐	EDF ☐	Sealed Yes ☐ No ☐
24 hours ☐	96 hours ☐	Level 3 ☐	Intact Yes ☐ No ☐
Other:		Level 4 ☐	Chilled _____ deg C

Project No.:	E742
Project Name:	Omega - ISVE System
Report To:	Jaime Dinello
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:
Bill to: de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	TO-15 (TAL 2.4)					
C122106-01	OC_SVE_VE-1S_121911	12/19/2011	1200	Summa	Air	No/C	x					
-02	OC_SVE_VE-5S_121911	12/19/2011	1210	Summa	Air	No/C	x					
-03	OC_SVE_VE-6S_121911	12/19/2011	1220	Summa	Air	No/C	x					
-04	OC_SVE_VE-8S_121911	12/19/2011	1230	Summa	Air	No/C	x					
-05	OC_SVE_VE-9S_121911	12/19/2011	1240	Summa	Air	No/C	x					
-06	OC_SVE_VE-10S_121911	12/19/2011	1250	Summa	Air	No/C	x					
-07	OC_SVE_VE-11S_121911	12/19/2011	1300	Summa	Air	No/C	x					
-08	OC_SVE_VE-12S_121911	12/19/2011	1310	Summa	Air	No/C	x					
-09	OC_SVE_VE-14S_121911	12/19/2011	1320	Summa	Air	No/C	x					
-10	OC_SVE_VE-15S_121911	12/19/2011	1330	Summa	Air	No/C	x					

AUTHORIZATION TO PERFORM WORK: A. MILLER	COMPANY: JKA	DATE/TIME: 12/19/11 0800	
SAMPLED BY: A. MILLER	COMPANY: JKA	DATE/TIME: 12/19/11 1100	
RELINQUISHED BY: [signature]	DATE/TIME: 12/21/11 935	RECEIVED BY: JON THOMPSON	DATE/TIME: 12/21/11 935
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122106-01			C122106-02			C122106-03			C122106-04		
Client Sample I.D.:	OC_SVE_VE-1S_121911			OC_SVE_VE-5S_121911			OC_SVE_VE-6S_121911			OC_SVE_VE-8S_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11			12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1			111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			1.7			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.67 J	2.1	0.13	0.62 J	2.1	0.13	0.60 J	1.7	0.10	0.58 J	2.1	0.13
Chloromethane	ND	4.2	0.70	0.77 J	4.2	0.70	0.68 J	3.4	0.56	ND	4.2	0.70
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.1	0.27	ND	2.1	0.27	ND	1.7	0.22	ND	2.1	0.27
Vinyl Chloride	ND	2.1	0.47	ND	2.1	0.47	ND	1.7	0.37	ND	2.1	0.47
Bromomethane	ND	2.1	0.73	ND	2.1	0.73	ND	1.7	0.58	ND	2.1	0.73
Chloroethane	ND	2.1	1.6	ND	2.1	1.6	ND	1.7	1.3	ND	2.1	1.6
Trichlorofluoromethane (11)	0.98 J	2.1	0.86	ND	2.1	0.86	ND	1.7	0.69	ND	2.1	0.86
1,1-Dichloroethene	0.87 J	2.1	0.23	ND	2.1	0.23	ND	1.7	0.18	ND	2.1	0.23
Carbon Disulfide	ND	11	0.31	1.2 J	11	0.31	ND	8.4	0.25	ND	11	0.31
1,1,2-Cl 1,2,2-F ethane (113)	1.8 J	2.1	0.48	ND	2.1	0.48	ND	1.7	0.39	ND	2.1	0.48
Acetone	15	11	0.66	16	11	0.66	5.1 J	8.4	0.53	21	11	0.66
Methylene Chloride	0.88 J	2.1	0.41	ND	2.1	0.41	ND	1.7	0.33	ND	2.1	0.41
t-1,2-Dichloroethene	ND	2.1	0.34	ND	2.1	0.34	ND	1.7	0.27	ND	2.1	0.34
1,1-Dichloroethane	ND	2.1	0.25	ND	2.1	0.25	ND	1.7	0.20	ND	2.1	0.25
Vinyl Acetate	ND	11	0.37	ND	11	0.37	ND	8.4	0.29	ND	11	0.37
c-1,2-Dichloroethene	ND	2.1	0.46	ND	2.1	0.46	ND	1.7	0.37	ND	2.1	0.46
2-Butanone	3.4	2.1	0.53	2.6	2.1	0.53	ND	1.7	0.43	3.4	2.1	0.53
t-Butyl Methyl Ether (MTBE)	ND	2.1	0.42	ND	2.1	0.42	ND	1.7	0.33	ND	2.1	0.42
Chloroform	ND	2.1	0.29	ND	2.1	0.29	ND	1.7	0.23	ND	2.1	0.29
1,1,1-Trichloroethane	ND	2.1	0.24	ND	2.1	0.24	ND	1.7	0.19	ND	2.1	0.24
Carbon Tetrachloride	ND	2.1	0.24	ND	2.1	0.24	ND	1.7	0.19	ND	2.1	0.24
Benzene	ND	2.1	0.41	ND	2.1	0.41	ND	1.7	0.33	ND	2.1	0.41
1,2-Dichloroethane	ND	2.1	0.55	ND	2.1	0.55	ND	1.7	0.44	ND	2.1	0.55
Trichloroethene	ND	2.1	0.33	ND	2.1	0.33	ND	1.7	0.26	ND	2.1	0.33
1,2-Dichloropropane	ND	2.1	0.27	ND	2.1	0.27	ND	1.7	0.21	ND	2.1	0.27
Bromodichloromethane	ND	2.1	0.32	ND	2.1	0.32	ND	1.7	0.25	ND	2.1	0.32
c-1,3-Dichloropropene	ND	2.1	0.47	ND	2.1	0.47	ND	1.7	0.38	ND	2.1	0.47
4-Methyl-2-Pentanone	ND	2.1	0.12	ND	2.1	0.12	ND	1.7	0.097	ND	2.1	0.12
Toluene	0.58 J	2.1	0.34	0.79 J	2.1	0.34	0.44 J	1.7	0.28	0.49 J	2.1	0.34
t-1,3-Dichloropropene	ND	2.1	0.56	ND	2.1	0.56	ND	1.7	0.44	ND	2.1	0.56
1,1,2-Trichloroethane	ND	2.1	0.43	ND	2.1	0.43	ND	1.7	0.34	ND	2.1	0.43
Tetrachloroethene	0.46 J	2.1	0.44	ND	2.1	0.44	ND	1.7	0.35	ND	2.1	0.44
2-Hexanone	ND	2.1	0.30	ND	2.1	0.30	ND	1.7	0.24	ND	2.1	0.30
Dibromochloromethane	ND	2.1	0.36	ND	2.1	0.36	ND	1.7	0.29	ND	2.1	0.36

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122106-01			C122106-02			C122106-03			C122106-04		
Client Sample I.D.:	OC_SVE_VE-1S_121911			OC_SVE_VE-5S_121911			OC_SVE_VE-6S_121911			OC_SVE_VE-8S_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11			12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1			111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			1.7			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
1,2-Dibromoethane	ND	2.1	0.28	ND	2.1	0.28	ND	1.7	0.22	ND	2.1	0.28
Chlorobenzene	ND	2.1	0.30	ND	2.1	0.30	ND	1.7	0.24	ND	2.1	0.30
Ethylbenzene	ND	2.1	0.076	ND	2.1	0.076	ND	1.7	0.061	ND	2.1	0.076
p,&m-Xylene	ND	2.1	0.48	0.62 J	2.1	0.48	ND	1.7	0.39	ND	2.1	0.48
o-Xylene	ND	2.1	0.29	ND	2.1	0.29	ND	1.7	0.23	ND	2.1	0.29
Isopropanol	ND	11	4.8	ND	11	4.8	ND	8.4	3.9	ND	11	4.8
n-Hexane	ND	11	1.8	ND	11	1.8	ND	8.4	1.5	ND	11	1.8
1,4-Dioxane	ND	11	2.4	ND	11	2.4	ND	8.4	1.9	ND	11	2.4
Total VOC's	25			23			6.8			25		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	91%	70-130%	94%	70-130%	96%	70-130%	92%	70-130%
Toluene-d8	92%	70-130%	93%	70-130%	88%	70-130%	89%	70-130%
4-Bromofluorobenzene	96%	70-130%	99%	70-130%	91%	70-130%	93%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122106-05			C122106-06			C122106-07			C122106-08		
Client Sample I.D.:	OC_SVE_VE-9S_121911			OC_SVE_VE-10S_121911			OC_SVE_VE-11S_121911			OC_SVE_VE-12S_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11			12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1			111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			2.1			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.61 J	2.1	0.13	0.64 J	2.1	0.13	0.62 J	2.1	0.13	0.64 J	2.1	0.13
Chloromethane	ND	4.2	0.70	ND	4.2	0.70	ND	4.2	0.70	ND	4.2	0.70
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.1	0.27	ND	2.1	0.27	ND	2.1	0.27	ND	2.1	0.27
Vinyl Chloride	ND	2.1	0.47	ND	2.1	0.47	ND	2.1	0.47	ND	2.1	0.47
Bromomethane	ND	2.1	0.73	ND	2.1	0.73	ND	2.1	0.73	ND	2.1	0.73
Chloroethane	ND	2.1	1.6	ND	2.1	1.6	ND	2.1	1.6	ND	2.1	1.6
Trichlorofluoromethane (11)	ND	2.1	0.86	ND	2.1	0.86	ND	2.1	0.86	ND	2.1	0.86
1,1-Dichloroethene	ND	2.1	0.23	1.4 J	2.1	0.23	ND	2.1	0.23	ND	2.1	0.23
Carbon Disulfide	ND	11	0.31	ND	11	0.31	ND	11	0.31	ND	11	0.31
1,1,2-Cl 1,2,2-F ethane (113)	ND	2.1	0.48	ND	2.1	0.48	ND	2.1	0.48	ND	2.1	0.48
Acetone	16	11	0.66	9.1 J	11	0.66	14	11	0.66	15	11	0.66
Methylene Chloride	ND	2.1	0.41	ND	2.1	0.41	ND	2.1	0.41	ND	2.1	0.41
t-1,2-Dichloroethene	ND	2.1	0.34	ND	2.1	0.34	ND	2.1	0.34	ND	2.1	0.34
1,1-Dichloroethane	ND	2.1	0.25	ND	2.1	0.25	ND	2.1	0.25	ND	2.1	0.25
Vinyl Acetate	ND	11	0.37	ND	11	0.37	ND	11	0.37	ND	11	0.37
c-1,2-Dichloroethene	ND	2.1	0.46	ND	2.1	0.46	ND	2.1	0.46	ND	2.1	0.46
2-Butanone	ND	2.1	0.53	ND	2.1	0.53	3.1	2.1	0.53	ND	2.1	0.53
t-Butyl Methyl Ether (MTBE)	ND	2.1	0.42	ND	2.1	0.42	ND	2.1	0.42	ND	2.1	0.42
Chloroform	ND	2.1	0.29	ND	2.1	0.29	ND	2.1	0.29	ND	2.1	0.29
1,1,1-Trichloroethane	ND	2.1	0.24	ND	2.1	0.24	ND	2.1	0.24	ND	2.1	0.24
Carbon Tetrachloride	ND	2.1	0.24	ND	2.1	0.24	ND	2.1	0.24	ND	2.1	0.24
Benzene	ND	2.1	0.41	ND	2.1	0.41	ND	2.1	0.41	ND	2.1	0.41
1,2-Dichloroethane	ND	2.1	0.55	ND	2.1	0.55	ND	2.1	0.55	ND	2.1	0.55
Trichloroethene	ND	2.1	0.33	ND	2.1	0.33	ND	2.1	0.33	ND	2.1	0.33
1,2-Dichloropropane	ND	2.1	0.27	ND	2.1	0.27	ND	2.1	0.27	ND	2.1	0.27
Bromodichloromethane	ND	2.1	0.32	ND	2.1	0.32	ND	2.1	0.32	ND	2.1	0.32
c-1,3-Dichloropropene	ND	2.1	0.47	ND	2.1	0.47	ND	2.1	0.47	ND	2.1	0.47
4-Methyl-2-Pentanone	ND	2.1	0.12	ND	2.1	0.12	ND	2.1	0.12	ND	2.1	0.12
Toluene	0.49 J	2.1	0.34	0.52 J	2.1	0.34	0.54 J	2.1	0.34	ND	2.1	0.34
t-1,3-Dichloropropene	ND	2.1	0.56	ND	2.1	0.56	ND	2.1	0.56	ND	2.1	0.56
1,1,2-Trichloroethane	ND	2.1	0.43	ND	2.1	0.43	ND	2.1	0.43	ND	2.1	0.43
Tetrachloroethene	ND	2.1	0.44	ND	2.1	0.44	ND	2.1	0.44	ND	2.1	0.44
2-Hexanone	ND	2.1	0.30	ND	2.1	0.30	ND	2.1	0.30	ND	2.1	0.30
Dibromochloromethane	ND	2.1	0.36	ND	2.1	0.36	ND	2.1	0.36	ND	2.1	0.36
1,2-Dibromoethane	ND	2.1	0.28	ND	2.1	0.28	ND	2.1	0.28	ND	2.1	0.28
Chlorobenzene	ND	2.1	0.30	ND	2.1	0.30	ND	2.1	0.30	ND	2.1	0.30

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122106-05			C122106-06			C122106-07			C122106-08		
Client Sample I.D.:	OC_SVE_VE-9S_121911			OC_SVE_VE-10S_121911			OC_SVE_VE-11S_121911			OC_SVE_VE-12S_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11			12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1			111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			2.1			2.1		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	2.1	0.076	ND	2.1	0.076	ND	2.1	0.076	ND	2.1	0.076
p,&m-Xylene	ND	2.1	0.48	ND	2.1	0.48	ND	2.1	0.48	ND	2.1	0.48
o-Xylene	ND	2.1	0.29	ND	2.1	0.29	ND	2.1	0.29	ND	2.1	0.29
Isopropanol	ND	11	4.8	ND	11	4.8	ND	11	4.8	ND	11	4.8
n-Hexane	ND	11	1.8	ND	11	1.8	ND	11	1.8	ND	11	1.8
1,4-Dioxane	ND	11	2.4	ND	11	2.4	ND	11	2.4	ND	11	2.4
Total VOC's	17			12			18			16		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	101%	70-130%	113%	70-130%	111%	70-130%	115%	70-130%
Toluene-d8	88%	70-130%	88%	70-130%	86%	70-130%	87%	70-130%
4-Bromofluorobenzene	95%	70-130%	95%	70-130%	93%	70-130%	107%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
*** = Surrogate recovery exceeds QC Criteria**

Reviewed/Approved By: _____ **Date** 1/11/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

PAGE 006

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122106-09			C122106-10		
Client Sample I.D.:	OC_SVE_VE-14S_121911			OC_SVE_VE-15S_121911		
Date Sampled:	12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	2.1			2.1		
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**
Dichlorodifluoromethane (12)	0.62 J	2.1	0.13	0.69 J	2.1	0.13
Chloromethane	ND	4.2	0.70	ND	4.2	0.70
1,2-Cl-1,1,2,2-F ethane (114)	ND	2.1	0.27	ND	2.1	0.27
Vinyl Chloride	ND	2.1	0.47	ND	2.1	0.47
Bromomethane	ND	2.1	0.73	ND	2.1	0.73
Chloroethane	ND	2.1	1.6	ND	2.1	1.6
Trichlorofluoromethane (11)	ND	2.1	0.86	3.6	2.1	0.86
1,1-Dichloroethene	ND	2.1	0.23	24	2.1	0.23
Carbon Disulfide	ND	11	0.31	ND	11	0.31
1,1,2-Cl 1,2,2-F ethane (113)	ND	2.1	0.48	5.1	2.1	0.48
Acetone	17	11	0.66	20	11	0.66
Methylene Chloride	ND	2.1	0.41	ND	2.1	0.41
t-1,2-Dichloroethene	ND	2.1	0.34	ND	2.1	0.34
1,1-Dichloroethane	ND	2.1	0.25	ND	2.1	0.25
Vinyl Acetate	ND	11	0.37	ND	11	0.37
c-1,2-Dichloroethene	ND	2.1	0.46	ND	2.1	0.46
2-Butanone	3.9	2.1	0.53	4.9	2.1	0.53
t-Butyl Methyl Ether (MTBE)	ND	2.1	0.42	ND	2.1	0.42
Chloroform	ND	2.1	0.29	0.48 J	2.1	0.29
1,1,1-Trichloroethane	ND	2.1	0.24	ND	2.1	0.24
Carbon Tetrachloride	ND	2.1	0.24	ND	2.1	0.24
Benzene	ND	2.1	0.41	ND	2.1	0.41
1,2-Dichloroethane	ND	2.1	0.55	ND	2.1	0.55
Trichloroethene	ND	2.1	0.33	56	2.1	0.33
1,2-Dichloropropane	ND	2.1	0.27	ND	2.1	0.27
Bromodichloromethane	ND	2.1	0.32	ND	2.1	0.32
c-1,3-Dichloropropene	ND	2.1	0.47	ND	2.1	0.47
4-Methyl-2-Pentanone	ND	2.1	0.12	ND	2.1	0.12
Toluene	0.59 J	2.1	0.34	0.38 J	2.1	0.34
t-1,3-Dichloropropene	ND	2.1	0.56	ND	2.1	0.56
1,1,2-Trichloroethane	ND	2.1	0.43	ND	2.1	0.43
Tetrachloroethene	ND	2.1	0.44	57	2.1	0.44
2-Hexanone	ND	2.1	0.30	ND	2.1	0.30
Dibromochloromethane	ND	2.1	0.36	ND	2.1	0.36
1,2-Dibromoethane	ND	2.1	0.28	ND	2.1	0.28
Chlorobenzene	ND	2.1	0.30	ND	2.1	0.30

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Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122106-09			C122106-10								
Client Sample I.D.:	OC_SVE_VE-14S_121911			OC_SVE_VE-15S_121911								
Date Sampled:	12/19/11			12/19/11								
Date Analyzed:	12/28/11			12/28/11								
QC Batch No.:	111228MS2A1			111228MS2A1								
Analyst Initials:	DT			DT								
Dilution Factor:	2.1			2.1								
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**						
Ethylbenzene	ND	2.1	0.076	ND	2.1	0.076						
p,&m-Xylene	0.66 J	2.1	0.48	ND	2.1	0.48						
o-Xylene	ND	2.1	0.29	ND	2.1	0.29						
Isopropanol	ND	11	4.8	ND	11	4.8						
n-Hexane	ND	11	1.8	ND	11	1.8						
1,4-Dioxane	ND	11	2.4	ND	11	2.4						
Total VOC's	23			170								

Surrogate	Result	QC Criteria	Result	QC Criteria				
1,2-Dichloroethane-d4	111%	70-130%	104%	70-130%				
Toluene-d8	89%	70-130%	88%	70-130%				
4-Bromofluorobenzene	103%	70-130%	104%	70-130%				

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

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PAGE 006

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122106-01			C122106-02			C122106-03			C122106-04		
Client Sample I.D.:	OC_SVE_VE-1S_121911			OC_SVE_VE-5S_121911			OC_SVE_VE-6S_121911			OC_SVE_VE-8S_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11			12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1			111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			1.7			2.1		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.3 J	10	0.63	3.0 J	10	0.63	3.0 J	8.3	0.51	2.9 J	10	0.63
Chloromethane	ND	8.7	1.4	1.6 J	8.7	1.4	1.4 J	7.0	1.2	ND	8.7	1.4
1,2-Cl-1,1,2,2-F ethane (114)	ND	15	1.9	ND	15	1.9	ND	12	1.5	ND	15	1.9
Vinyl Chloride	ND	5.4	1.2	ND	5.4	1.2	ND	4.3	0.95	ND	5.4	1.2
Bromomethane	ND	8.2	2.8	ND	8.2	2.8	ND	6.5	2.3	ND	8.2	2.8
Chloroethane	ND	5.6	4.1	ND	5.6	4.1	ND	4.4	3.3	ND	5.6	4.1
Trichlorofluoromethane (11)	5.5 J	12	4.8	ND	12	4.8	ND	9.5	3.9	ND	12	4.8
1,1-Dichloroethene	3.4 J	8.4	0.90	ND	8.4	0.90	ND	6.7	0.72	ND	8.4	0.90
Carbon Disulfide	ND	33	0.97	3.8 J	33	0.97	ND	26	0.78	ND	33	0.97
1,1,2-Cl 1,2,2-F ethane (113)	14 J	16	3.7	ND	16	3.7	ND	13	3.0	ND	16	3.7
Acetone	35	25	1.6	39	25	1.6	12 J	20	1.3	49	25	1.6
Methylene Chloride	3.0 J	7.3	1.4	ND	7.3	1.4	ND	5.9	1.1	ND	7.3	1.4
t-1,2-Dichloroethene	ND	8.4	1.4	ND	8.4	1.4	ND	6.7	1.1	ND	8.4	1.4
1,1-Dichloroethane	ND	8.5	1.0	ND	8.5	1.0	ND	6.8	0.81	ND	8.5	1.0
Vinyl Acetate	ND	37	1.3	ND	37	1.3	ND	30	1.0	ND	37	1.3
c-1,2-Dichloroethene	ND	8.4	1.8	ND	8.4	1.8	ND	6.7	1.5	ND	8.4	1.8
2-Butanone	10	6.2	1.6	7.5	6.2	1.6	ND	5.0	1.3	10.0	6.2	1.6
t-Butyl Methyl Ether (MTBE)	ND	7.6	1.5	ND	7.6	1.5	ND	6.1	1.2	ND	7.6	1.5
Chloroform	ND	10	1.4	ND	10	1.4	ND	8.2	1.1	ND	10	1.4
1,1,1-Trichloroethane	ND	11	1.3	ND	11	1.3	ND	9.2	1.0	ND	11	1.3
Carbon Tetrachloride	ND	13	1.5	ND	13	1.5	ND	11	1.2	ND	13	1.5
Benzene	ND	6.7	1.3	ND	6.7	1.3	ND	5.4	1.1	ND	6.7	1.3
1,2-Dichloroethane	ND	8.5	2.2	ND	8.5	2.2	ND	6.8	1.8	ND	8.5	2.2
Trichloroethene	ND	11	1.8	ND	11	1.8	ND	9.1	1.4	ND	11	1.8
1,2-Dichloropropane	ND	9.7	1.2	ND	9.7	1.2	ND	7.8	0.99	ND	9.7	1.2
Bromodichloromethane	ND	14	2.1	ND	14	2.1	ND	11	1.7	ND	14	2.1
c-1,3-Dichloropropene	ND	9.6	2.2	ND	9.6	2.2	ND	7.6	1.7	ND	9.6	2.2
4-Methyl-2-Pentanone	ND	8.6	0.50	ND	8.6	0.50	ND	6.9	0.40	ND	8.6	0.50
Toluene	2.2 J	7.9	1.3	3.0 J	7.9	1.3	1.6 J	6.3	1.0	1.9 J	7.9	1.3
t-1,3-Dichloropropene	ND	9.6	2.5	ND	9.6	2.5	ND	7.6	2.0	ND	9.6	2.5
1,1,2-Trichloroethane	ND	11	2.4	ND	11	2.4	ND	9.2	1.9	ND	11	2.4
Tetrachloroethene	3.1 J	14	3.0	ND	14	3.0	ND	11	2.4	ND	14	3.0
2-Hexanone	ND	8.6	1.2	ND	8.6	1.2	ND	6.9	0.98	ND	8.6	1.2
Dibromochloromethane	ND	18	3.1	ND	18	3.1	ND	14	2.5	ND	18	3.1

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832
PAGE 006

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122106-01			C122106-02			C122106-03			C122106-04		
Client Sample I.D.:	OC_SVE_VE-1S_121911			OC_SVE_VE-5S_121911			OC_SVE_VE-6S_121911			OC_SVE_VE-8S_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11			12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1			111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			1.7			2.1		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
1,2-Dibromoethane	ND	16	2.1	ND	16	2.1	ND	13	1.7	ND	16	2.1
Chlorobenzene	ND	9.7	1.4	ND	9.7	1.4	ND	7.8	1.1	ND	9.7	1.4
Ethylbenzene	ND	9.1	0.33	ND	9.1	0.33	ND	7.3	0.26	ND	9.1	0.33
p,&m-Xylene	ND	9.1	2.1	2.7 J	9.1	2.1	ND	7.3	1.7	ND	9.1	2.1
o-Xylene	ND	9.1	1.3	ND	9.1	1.3	ND	7.3	1.0	ND	9.1	1.3
Isopropanol	ND	26	12	ND	26	12	ND	21	9.5	ND	26	12
n-Hexane	ND	37	6.4	ND	37	6.4	ND	30	5.1	ND	37	6.4
1,4-Dioxane	ND	38	8.5	ND	38	8.5	ND	30	6.8	ND	38	8.5
Total VOC's	80			61			18			64		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	91%	70-130%	94%	70-130%	96%	70-130%	92%	70-130%
Toluene-d8	92%	70-130%	93%	70-130%	88%	70-130%	89%	70-130%
4-Bromofluorobenzene	96%	70-130%	99%	70-130%	91%	70-130%	93%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1/11/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122106-05			C122106-06			C122106-07			C122106-08		
Client Sample I.D.:	OC_SVE_VE-9S_121911			OC_SVE_VE-10S_121911			OC_SVE_VE-11S_121911			OC_SVE_VE-12S_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11			12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1			111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			2.1			2.1		
ANALYTE	Result ug/m3	RL ug/m3	ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.0 J	10	0.63	3.1 J	10	0.63	3.1 J	10	0.63	3.2 J	10	0.63
Chloromethane	ND	8.7	1.4	ND	8.7	1.4	ND	8.7	1.4	ND	8.7	1.4
1,2-Cl-1,1,2,2-F ethane (114)	ND	15	1.9	ND	15	1.9	ND	15	1.9	ND	15	1.9
Vinyl Chloride	ND	5.4	1.2	ND	5.4	1.2	ND	5.4	1.2	ND	5.4	1.2
Bromomethane	ND	8.2	2.8	ND	8.2	2.8	ND	8.2	2.8	ND	8.2	2.8
Chloroethane	ND	5.6	4.1	ND	5.6	4.1	ND	5.6	4.1	ND	5.6	4.1
Trichlorofluoromethane (11)	ND	12	4.8	ND	12	4.8	ND	12	4.8	ND	12	4.8
1,1-Dichloroethene	ND	8.4	0.90	5.6 J	8.4	0.90	ND	8.4	0.90	ND	8.4	0.90
Carbon Disulfide	ND	33	0.97	ND	33	0.97	ND	33	0.97	ND	33	0.97
1,1,2-Cl 1,2,2-F ethane (113)	ND	16	3.7	ND	16	3.7	ND	16	3.7	ND	16	3.7
Acetone	39	25	1.6	22 J	25	1.6	33	25	1.6	36	25	1.6
Methylene Chloride	ND	7.3	1.4	ND	7.3	1.4	ND	7.3	1.4	ND	7.3	1.4
t-1,2-Dichloroethene	ND	8.4	1.4	ND	8.4	1.4	ND	8.4	1.4	ND	8.4	1.4
1,1-Dichloroethane	ND	8.5	1.0	ND	8.5	1.0	ND	8.5	1.0	ND	8.5	1.0
Vinyl Acetate	ND	37	1.3	ND	37	1.3	ND	37	1.3	ND	37	1.3
c-1,2-Dichloroethene	ND	8.4	1.8	ND	8.4	1.8	ND	8.4	1.8	ND	8.4	1.8
2-Butanone	ND	6.2	1.6	ND	6.2	1.6	9.2	6.2	1.6	ND	6.2	1.6
t-Butyl Methyl Ether (MTBE)	ND	7.6	1.5	ND	7.6	1.5	ND	7.6	1.5	ND	7.6	1.5
Chloroform	ND	10	1.4	ND	10	1.4	ND	10	1.4	ND	10	1.4
1,1,1-Trichloroethane	ND	11	1.3	ND	11	1.3	ND	11	1.3	ND	11	1.3
Carbon Tetrachloride	ND	13	1.5	ND	13	1.5	ND	13	1.5	ND	13	1.5
Benzene	ND	6.7	1.3	ND	6.7	1.3	ND	6.7	1.3	ND	6.7	1.3
1,2-Dichloroethane	ND	8.5	2.2	ND	8.5	2.2	ND	8.5	2.2	ND	8.5	2.2
Trichloroethene	ND	11	1.8	ND	11	1.8	ND	11	1.8	ND	11	1.8
1,2-Dichloropropane	ND	9.7	1.2	ND	9.7	1.2	ND	9.7	1.2	ND	9.7	1.2
Bromodichloromethane	ND	14	2.1	ND	14	2.1	ND	14	2.1	ND	14	2.1
c-1,3-Dichloropropene	ND	9.6	2.2	ND	9.6	2.2	ND	9.6	2.2	ND	9.6	2.2
4-Methyl-2-Pentanone	ND	8.6	0.50	ND	8.6	0.50	ND	8.6	0.50	ND	8.6	0.50
Toluene	1.9 J	7.9	1.3	2.0 J	7.9	1.3	2.0 J	7.9	1.3	ND	7.9	1.3
t-1,3-Dichloropropene	ND	9.6	2.5	ND	9.6	2.5	ND	9.6	2.5	ND	9.6	2.5
1,1,2-Trichloroethane	ND	11	2.4	ND	11	2.4	ND	11	2.4	ND	11	2.4
Tetrachloroethene	ND	14	3.0	ND	14	3.0	ND	14	3.0	ND	14	3.0
2-Hexanone	ND	8.6	1.2	ND	8.6	1.2	ND	8.6	1.2	ND	8.6	1.2
Dibromochloromethane	ND	18	3.1	ND	18	3.1	ND	18	3.1	ND	18	3.1
1,2-Dibromoethane	ND	16	2.1	ND	16	2.1	ND	16	2.1	ND	16	2.1
Chlorobenzene	ND	9.7	1.4	ND	9.7	1.4	ND	9.7	1.4	ND	9.7	1.4

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832
PAGE 011

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122106-05			C122106-06			C122106-07			C122106-08		
Client Sample I.D.:	OC_SVE_VE-9S_121911			OC_SVE_VE-10S_121911			OC_SVE_VE-11S_121911			OC_SVE_VE-12S_121911		
Date Sampled:	12/19/11			12/19/11			12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11			12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1			111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	2.1			2.1			2.1			2.1		
ANALYTE	Result ug/m3	RL ug/m3	ug/m 3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	9.1	0.33	ND	9.1	0.33	ND	9.1	0.33	ND	9.1	0.33
p,&m-Xylene	ND	9.1	2.1	ND	9.1	2.1	ND	9.1	2.1	ND	9.1	2.1
o-Xylene	ND	9.1	1.3	ND	9.1	1.3	ND	9.1	1.3	ND	9.1	1.3
Isopropanol	ND	26	12	ND	26	12	ND	26	12	ND	26	12
n-Hexane	ND	37	6.4	ND	37	6.4	ND	37	6.4	ND	37	6.4
1,4-Dioxane	ND	38	8.5	ND	38	8.5	ND	38	8.5	ND	38	8.5
Total VOC's	44			33			47			39		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	101%	70-130%	113%	70-130%	111%	70-130%	115%	70-130%
Toluene-d8	88%	70-130%	88%	70-130%	86%	70-130%	87%	70-130%
4-Bromofluorobenzene	95%	70-130%	95%	70-130%	93%	70-130%	107%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date _____
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122106-09			C122106-10		
Client Sample I.D.:	OC_SVE_VE-14S_121911			OC_SVE_VE-15S_121911		
Date Sampled:	12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	2.1			2.1		
ANALYTE	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**
Dichlorodifluoromethane (12)	3.1 J	10	0.63	3.4 J	10	0.63
Chloromethane	ND	8.7	1.4	ND	8.7	1.4
1,2-Cl-1,1,2,2-F ethane (114)	ND	15	1.9	ND	15	1.9
Vinyl Chloride	ND	5.4	1.2	ND	5.4	1.2
Bromomethane	ND	8.2	2.8	ND	8.2	2.8
Chloroethane	ND	5.6	4.1	ND	5.6	4.1
Trichlorofluoromethane (11)	ND	12	4.8	20	12	4.8
1,1-Dichloroethene	ND	8.4	0.90	96	8.4	0.90
Carbon Disulfide	ND	33	0.97	ND	33	0.97
1,1,2-Cl 1,2,2-F ethane (113)	ND	16	3.7	39	16	3.7
Acetone	39	25	1.6	47	25	1.6
Methylene Chloride	ND	7.3	1.4	ND	7.3	1.4
t-1,2-Dichloroethene	ND	8.4	1.4	ND	8.4	1.4
1,1-Dichloroethane	ND	8.5	1.0	ND	8.5	1.0
Vinyl Acetate	ND	37	1.3	ND	37	1.3
c-1,2-Dichloroethene	ND	8.4	1.8	ND	8.4	1.8
2-Butanone	11	6.2	1.6	15	6.2	1.6
t-Butyl Methyl Ether (MTBE)	ND	7.6	1.5	ND	7.6	1.5
Chloroform	ND	10	1.4	2.3 J	10	1.4
1,1,1-Trichloroethane	ND	11	1.3	ND	11	1.3
Carbon Tetrachloride	ND	13	1.5	ND	13	1.5
Benzene	ND	6.7	1.3	ND	6.7	1.3
1,2-Dichloroethane	ND	8.5	2.2	ND	8.5	2.2
Trichloroethene	ND	11	1.8	300	11	1.8
1,2-Dichloropropane	ND	9.7	1.2	ND	9.7	1.2
Bromodichloromethane	ND	14	2.1	ND	14	2.1
c-1,3-Dichloropropene	ND	9.6	2.2	ND	9.6	2.2
4-Methyl-2-Pentanone	ND	8.6	0.50	ND	8.6	0.50
Toluene	2.2 J	7.9	1.3	1.4 J	7.9	1.3
t-1,3-Dichloropropene	ND	9.6	2.5	ND	9.6	2.5
1,1,2-Trichloroethane	ND	11	2.4	ND	11	2.4
Tetrachloroethene	ND	14	3.0	380	14	3.0
2-Hexanone	ND	8.6	1.2	ND	8.6	1.2
Dibromochloromethane	ND	18	3.1	ND	18	3.1
1,2-Dibromoethane	ND	16	2.1	ND	16	2.1
Chlorobenzene	ND	9.7	1.4	ND	9.7	1.4

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - ISVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122106-09			C122106-10		
Client Sample I.D.:	OC_SVE_VE-14S_121911			OC_SVE_VE-15S_121911		
Date Sampled:	12/19/11			12/19/11		
Date Analyzed:	12/28/11			12/28/11		
QC Batch No.:	111228MS2A1			111228MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	2.1			2.1		
ANALYTE	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**
Ethylbenzene	ND	9.1	0.33	ND	9.1	0.33
p,&m-Xylene	2.9 J	9.1	2.1	ND	9.1	2.1
o-Xylene	ND	9.1	1.3	ND	9.1	1.3
Isopropanol	ND	26	12	ND	26	12
n-Hexane	ND	37	6.4	ND	37	6.4
1,4-Dioxane	ND	38	8.5	ND	38	8.5
Total VOC's	58			900		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	111%	70-130%	104%	70-130%
Toluene-d8	89%	70-130%	88%	70-130%
4-Bromofluorobenzene	103%	70-130%	104%	70-130%

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 1/11/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111227MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/27/11		12/27/11		12/27/11						
Data File ID:	27DEC015.D		27DEC011.D		27DEC012.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.7	107	10.5	105	1.5	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.0	110	10.5	105	4.1	70	130	30	Pass
Trichloroethene	0.0	10.0	10.2	102	10.2	102	0.4	70	130	30	Pass
Toluene	0.0	10.0	9.5	95	9.4	94	1.4	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.8	88	9.5	95	8.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 1/11/12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111228MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/28/11		12/28/11		12/28/11						
Data File ID:	28DEC006.D		28DEC004.D		28DEC005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.8	108	10.9	109	0.7	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.8	108	11.3	113	4.4	70	130	30	Pass
Trichloroethene	0.0	10.0	10.6	106	9.7	97	8.9	70	130	30	Pass
Toluene	0.0	10.0	9.9	99	9.3	93	5.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.2	92	9.3	93	1.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 1/11/12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111226\27DEC001.D
Tune Time : 27 Dec 2011 8:18

Daily Calibration File : D:\GCMSB\111226\27DEC004.D

					Daily cali. I.S. response		
					48144	206377	128178
File	Sample	Surrogate Recovery %			Internal Standard Responses		
27DEC011	ICV/LCS	93	98	99	51640	218369	122291
27DEC012	LCSD	98	95	101	51161	208945	110463
27DEC015	METHOD BLANK	94	91	94	48012	201574	101077
27DEC029	C122106-01 d	91	92	96	50384	215316	113524
27DEC030	C122106-02 d	94	93	99	50231	212852	108487
27DEC031	C122106-03 d	96	88	91	51297	209146	103682
27DEC032	C122106-04 d	92	89	93	50933	207101	106374

surrogate recovery limits 70-130%
Internal standard response limits 60-140%

t - fails 24hr time check * - fails criteria
Created:Tue Jan 03 14:19:38 2012

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111226\28DEC002.D
Tune Time : 28 Dec 2011 7:34

Daily Calibration File : D:\GCMSB\111226\28DEC003.D

					Daily cali. I.S. response		
					51825	206167	113491
File	Sample	Surrogate Recovery %			Internal Standard Responses		
28DEC004	LCS	97	102	103	49164	206514	115080
28DEC005	LCSD	95	98	100	50245	218594	117476
28DEC006	METHOD BLANK	96	96	95	50883	196280	102032
28DEC007	C122106-05 d	101	88	95	49812	191468	95037
28DEC008	C122106-06 d	113	88	95	48999	176423	88815
28DEC009	C122106-07 d	111	86	93	48867	176470	85380
28DEC010	C122106-08 d	115	87	107	48596	167152	73896
28DEC011	C122106-09 d	111	89	103	49903	174774	89479
28DEC012	C122106-10 d	104	88	104	48521	180582	90010

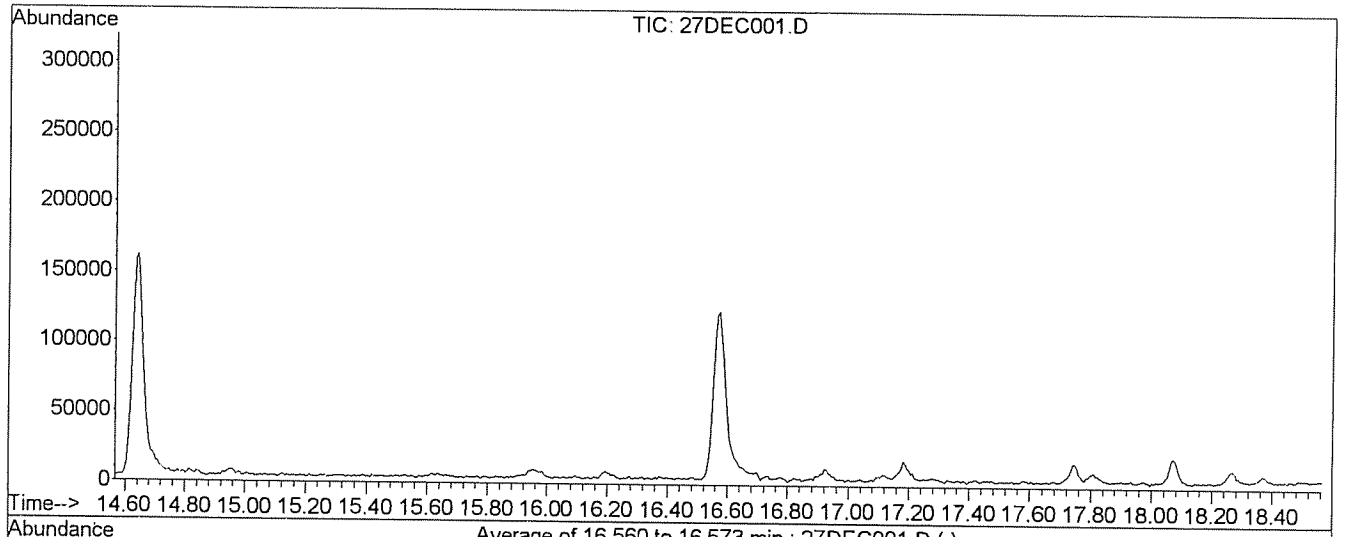
surrogate recovery limits 70-130%
Internal standard response limits 60-140%

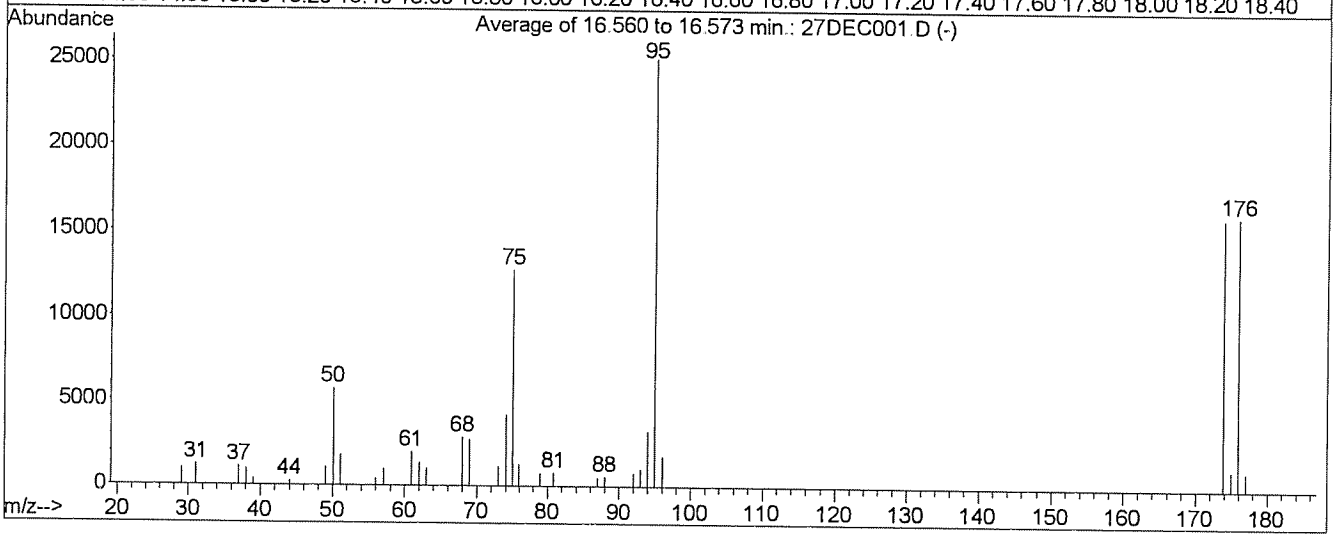
t - fails 24hr time check * - fails criteria
Created:Tue Jan 03 14:22:38 2012

BFB

Data File : D:\GCMSB\111226\27DEC001.D
Acq On : 27 Dec 2011 8:18
Sample : BFB
Misc : 150 ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111211.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00



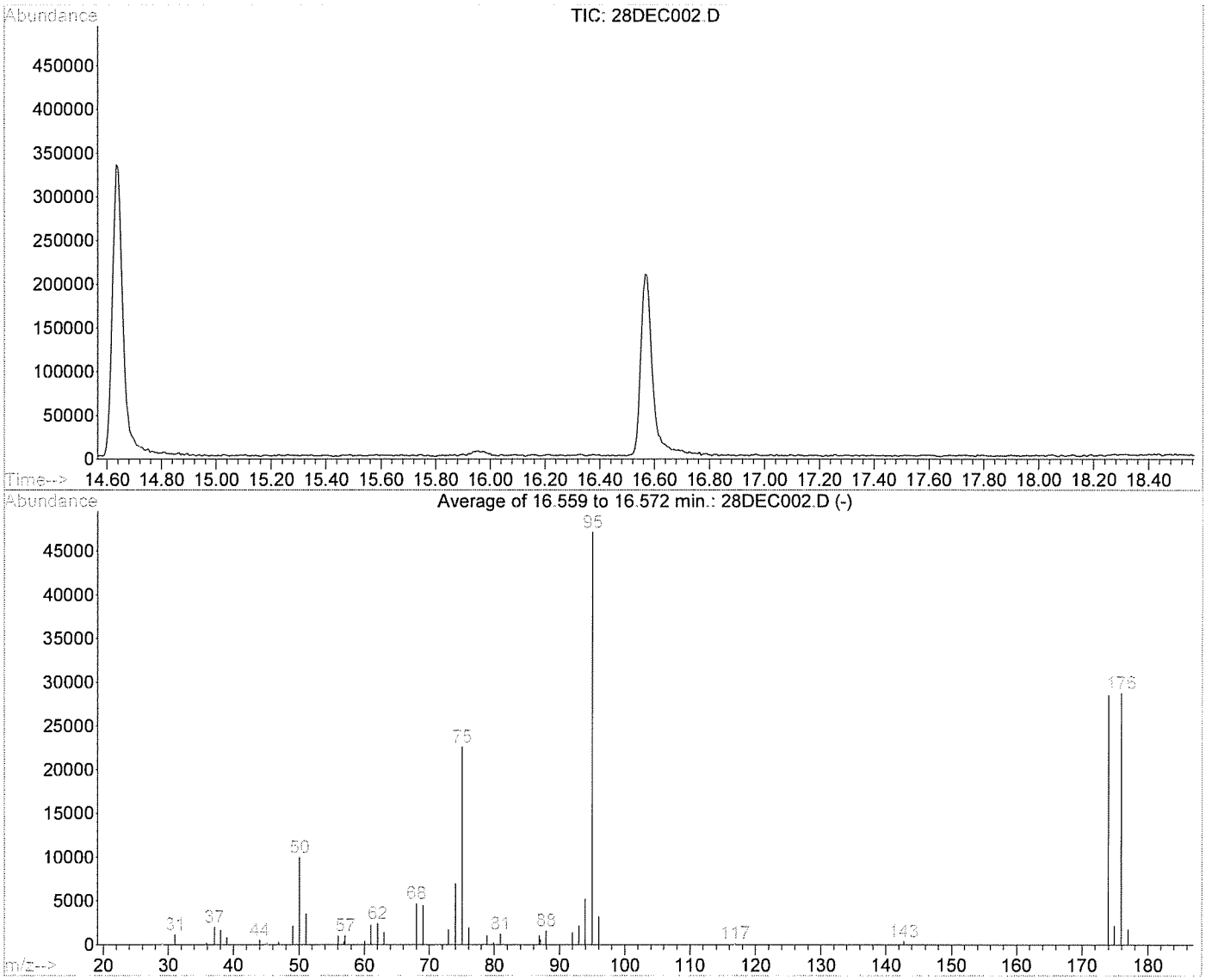


AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2193

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	5755	PASS
75	95	30	60	50.7	12761	PASS
95	95	100	100	100.0	25152	PASS
96	95	5	9	7.1	1787	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.4	15936	PASS
175	174	5	9	7.3	1171	PASS
176	174	95	101	100.8	16061	PASS
177	176	5	9	6.6	1064	PASS

BFB

Data File : D:\GCMSB\111226\28DEC002.D Vial: 15
Acq On : 28 Dec 2011 7:34 Operator: DT
Sample : BFB Inst : GC/MS 597
Misc : 150ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm



AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2193

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	9990	PASS
75	95	30	60	47.9	22603	PASS
95	95	100	100	100.0	47157	PASS
96	95	5	9	6.7	3178	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	60.4	28504	PASS
175	174	5	9	7.6	2158	PASS
176	174	95	101	101.0	28789	PASS
177	176	5	9	6.0	1734	PASS

28DEC002.D TO111227.M Wed Dec 28 13:56:52 2011 GCMSB

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111211.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Initial Calibration

Calibration Files
1 =27DEC005.D 5 =27DEC006.D 10 =27DEC004.D
25 =27DEC007.D 100 =27DEC008.D 250 =27DEC009.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	9.306	7.553	7.491	6.886	6.079	4.129	6.907	25.00
3)		Chloromethane	2.385	2.114	2.267	2.105	1.873	1.396	2.023	17.42
4)		1,2-Cl-1,1,2,2-F et	8.180	6.446	6.635	6.211	5.480	3.809	6.127	23.51
5)		Vinyl Chloride	2.257	1.975	2.012	1.971	1.831	1.315	1.893	16.65
6)		Bromomethane	2.377	1.410	1.827	1.209	1.579	1.021	1.571	30.86
7)		Chloroethane	1.291	1.194	1.171	1.123	0.881	0.778	1.073	18.55
8)		Trichlorofluorometh	8.480	7.086	7.290	6.751	6.128	4.365	6.683	20.57
9)	M	1,1-Dichloroethene	4.723	4.055	4.228	3.958	3.679	2.652	3.883	17.91
10)		Carbon Disulfide	6.813	6.283	6.034	5.703	5.211	3.702	5.624	19.29
11)		1,1,2-Cl 1,2,2-F et	4.222	3.467	3.625	3.412	3.092	2.258	3.346	19.43
12)		Acetone	5.792	5.221	4.387	4.056	3.784	2.756	4.333	24.83
13)	M	Methylene Chloride	2.176	1.803	1.941	1.786	1.679	1.222	1.768	17.96
14)		t-1,2-Dichloroethen	2.294	2.168	2.295	2.176	2.044	1.510	2.081	14.18
15)		1,1-Dichloroethane	5.107	4.215	4.490	4.266	3.799	2.669	4.091	19.99
16)		Vinyl Acetate	6.277	7.895	7.994	8.144	7.997	5.594	7.317	14.96
17)		c-1,2-Dichloroethen	2.276	2.260	2.310	2.215	2.033	1.458	2.092	15.56
18)		2-Butanone	0.806	1.087	1.008	1.024	0.993	0.728	0.941	14.98
19)		t-Butyl Methyl Ethe	6.574	6.045	6.460	6.203	6.001	4.494	5.963	12.65
20)	t	Chloroform	6.180	5.255	5.421	5.032	4.624	3.321	4.972	19.27
21)		1,1,1-Trichloroetha	6.033	5.272	5.620	5.312	4.995	3.655	5.148	15.78
22)		1,1-Dichloropropene	3.250	3.000	3.340	3.113	2.977	2.156	2.973	14.26
23)	t	Carbon Tetrachlorid	5.024	4.680	4.989	4.956	4.862	3.532	4.674	12.25
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.825	1.595	1.630	1.568	1.521	1.312	1.575	10.55
26)	S	1,2-Dichloroethane-	0.461	0.496	0.454	0.457	0.497	0.502	0.478	4.75
27)		1,2-Dichloroethane	1.054	1.007	0.949	0.941	0.913	0.758	0.937	10.83
28)	M	Trichloroethene	0.769	0.688	0.692	0.666	0.662	0.580	0.676	9.02
29)		1,2-Dichloropropane	0.640	0.593	0.616	0.595	0.599	0.521	0.594	6.72
30)		Bromodichloromethan	1.332	1.330	1.316	1.309	1.300	1.068	1.276	8.02
31)		Dibromomethane	0.640	0.662	0.646	0.653	0.634	0.537	0.629	7.32
32)		c-1,3-Dichloroprope	0.697	0.816	0.876	0.886	0.963	0.860	0.849	10.45
33)		4-Methyl-2-Pentanon	1.198	1.204	1.235	1.158	1.183	1.056	1.172	5.32
34)	S	Toluene-d8	0.717	0.730	0.826	0.749	0.767	0.815	0.767	5.82
35)	M	Toluene	1.771	1.549	1.719	1.496	1.537	1.395	1.578	8.96
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.893	1.277	1.115	1.351	1.490	1.270	1.233	16.73
38)		1,1,2-Trichloroetha	1.389	1.325	1.078	1.150	1.101	0.905	1.158	15.22
39)		1,3-Dichloropropane	1.513	1.569	1.455	1.545	1.499	1.258	1.473	7.63
40)		Tetrachloroethene	1.730	1.448	1.274	1.245	1.192	1.000	1.315	18.95
41)		2-Hexanone	0.551	0.831	0.847	0.875	0.935	0.808	0.808	16.48
42)		Dibromochloromethan	2.198	2.192	1.762	1.983	2.014	1.651	1.967	11.35
43)	t	1,2-Dibromoethane	1.718	1.912	1.561	1.682	1.662	1.367	1.650	10.93
44)		Chlorobenzene	2.337	2.130	1.940	1.764	1.794	1.574	1.923	14.29
45)		1,1,1,2-Tetrachloro	1.184	1.244	1.119	1.221	1.228	1.019	1.169	7.37
46)	T	Ethylbenzene	3.550	3.314	3.122	2.764	2.806	2.444	3.000	13.48
47)	T	p,&m-Xylene	2.699	2.662	2.485	2.148	2.139	1.777	2.318	15.49

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48)	T	o-Xylene	3.137	2.954	2.520	2.368	2.374	2.061	2.569	15.66
49)		Styrene	1.271	1.438	1.506	1.275	1.410	1.299	1.366	7.20
50)		Bromoform	1.641	1.629	1.340	1.492	1.606	1.336	1.507	9.39
51)		Isopropyl benzene	3.195	2.916	2.880	2.702	2.557	2.238	2.748	12.01
52)	M	1,1,2,2-Tetrachloro	2.936	2.896	1.984	2.009	1.997	1.675	2.250	23.61
53)	S	4-Bromofluorobenzen	0.333	0.356	0.368	0.351	0.343	0.384	0.356	5.02
54)		Benzyl Chloride	1.041	1.154	0.986	0.960	1.604	1.671	1.236	25.80
55)		1,2,3-Trichloroprop	0.676	0.720	0.653	0.662	0.665	0.573	0.658	7.25
56)		n-Propyl Benzene	3.080	2.782	3.046	2.599	2.679	2.423	2.768	9.30
57)		Bromobenzene	1.629	1.574	1.747	1.511	1.543	1.339	1.557	8.69
58)		4-Ethyl Toluene	3.061	3.295	2.820	2.355	2.625	2.468	2.771	12.98
59)	T	1,3,5-Trimethylbenz	4.615	4.329	3.259	3.003	3.074	2.566	3.474	23.34
60)		2-Chlorotoluene	3.060	2.928	2.758	2.534	2.482	2.044	2.634	13.84
61)		4-Chlorotoluene	2.377	2.019	2.228	1.815	1.985	1.851	2.046	10.67
62)		tert-Butylbenzene	2.992	2.661	2.918	2.685	2.727	2.415	2.733	7.49
63)		1,2,4-Trimethylbenz	3.965	3.981	3.137	2.594	2.800	2.414	3.149	21.66
64)		sec-Butylbenzene	3.905	3.328	3.333	2.843	2.774	2.452	3.106	16.71
65)		p-Isopropyltoluene	2.613	2.502	2.661	2.248	2.379	2.145	2.425	8.42
66)		1,3-Dichlorobenzene	1.792	1.766	1.419	1.191	1.359	1.238	1.461	17.77
67)		1,4-Dichlorobenzene	1.811	1.716	1.390	1.125	1.325	1.235	1.434	18.98
68)		n-Butylbenzene	2.875	2.576	2.776	2.131	2.300	2.065	2.454	13.81
69)		1,2-Dichlorobenzene	1.941	1.758	1.369	1.203	1.359	1.221	1.475	20.58
70)		1,2-Dibromo-3-chlor	0.419	0.567	0.479	0.521	0.611	0.524	0.520	12.89
71)		1,2,4-Trichlorobenz	0.615	0.979	0.963	0.822	1.183	1.046	0.935	20.96
72)		Hexachlorobutadiene	0.927	1.057	0.898	0.826	0.989	0.857	0.926	9.23

(#) = Out of Range

TO111211.M Tue Dec 27 14:09:38 2011 GCMSB

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL111227.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Thu Dec 29 15:56:40 2011
Response via : Initial Calibration

Calibration Files
1 =27DEC005.D 5 =27DEC006.D 10 =27DEC004.D
25 =27DEC007.D 100 =27DEC008.D 250 =27DEC009.D

		Compound	1	5	10	25	100	250	Avg	%RSD	
1)	I	Bromochloromethane	----------ISTD----------								
2)		Propene		1.843	1.874	1.656	1.446	1.067	1.577	21.09	
3)		isobutane		0.131	0.093	0.075	0.076	0.053	0.086	33.63	
4)		1,3-Butadiene	1.180	1.276	1.392	1.336	1.282	0.929	1.232	13.36	
5)		Methanol	3.800	2.017	0.649	0.516	0.407	0.285	1.279	~~108.49~~	NA
6)		Acetaldehyde		0.914	0.609	0.515	0.492	0.345	0.575	~~36.80~~	
7)		Ethanol	1.668	1.309	0.699	0.718	0.684	0.552	0.938	~~47.42~~	
8)		Vinyl Bromide	1.718	1.629	1.826	1.709	1.648	1.225	1.626	12.80	
9)		Isopropanol	4.157	3.826	3.819	3.772	3.854	2.849	3.713	11.99	
10)		Acrolein	0.466	0.732	0.785	0.756	0.726	0.549	0.669	19.38	
11)		t-Butanol	3.387	3.261	3.653	3.910	3.886	2.951	3.508	10.75	
12)		Allyl Chloride	2.318	2.379	2.693	2.512	2.456	1.848	2.368	12.04	
13)		Acrylonitrile		1.163	1.572	1.599	1.404	1.083	1.364	17.15	
14)		t-Butyl methyl ethe	6.392	6.045	6.460	6.202	5.997	4.501	5.933	12.22	
15)		n-Hexane	3.601	3.315	3.700	3.365	3.173	2.357	3.252	14.73	
16)		Isopropyl ether	6.897	6.273	7.117	6.481	6.059	4.262	6.181	16.47	
17)		t-Butyl ethyl ether	2.408	2.129	2.428	2.335	2.338	1.803	2.240	10.67	
18)		Ethyl Acetate		0.436	0.502	0.517	0.504	0.367	0.465	13.61	
19)		2,2-Dichloropropane	3.105	3.127	3.453	3.397	3.415	2.409	3.151	12.49	
20)		Tetrahydrofuran	1.208	1.070	1.050	1.018	0.971	0.741	1.010	15.22	
21)		Cyclohexane	3.797	3.616	3.879	3.662	3.371	2.461	3.464	15.06	
22)		2,2,4-Trimethylpent	1.154	0.972	1.108	0.976	0.902	0.642	0.959	E1 18.87	
23)	I	1,4-Difluorobenzene	----------ISTD----------								
24)	S	1,2-Dichloroethane-	0.479	0.530	0.449	0.518	0.502	0.464	0.490	6.46	
25)		t-Amyl methyl ether	1.168	1.205	1.249	1.331	1.407	1.246	1.267	6.89	
26)		Heptane	0.411	0.418	0.485	0.412	0.426	0.390	0.424	7.64	
27)		1,4-Dioxane	0.438	0.398	0.384	0.395	0.399	0.340	0.393	8.05	
28)		2-chloroethylvinyle			0.001	0.001	0.005	0.006	0.003	~~73.65~~	NA
29)	S	Toluene-d8	0.718	0.732	0.811	0.752	0.772	0.811	0.766	5.14	
30)		Chlorobenzene-d5	----------ISTD----------								
31)		Cyclohexanone		0.930	0.948	1.063	1.044	0.890	0.975	7.70	
32)	S	4-Bromofluorobenzen	0.518	0.556	0.559	0.562	0.645	0.732	0.595	13.25	
33)		Dicyclopentadiene		0.020	0.026	0.026	0.028	0.024	0.025	12.54	
34)		Naphthalene	1.453	2.495	2.298	1.997	2.979	2.589	2.302	22.92	
35)		1,2,3-Trichlorobenz				0.001	0.006	0.006	0.004	~~66.57~~	NA

(#) = Out of Range

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Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\27DEC004.D Vial: 14
Acq On : 27 Dec 2011 10:30 Operator: DT
Sample : 10 PPBV ICAL Inst : GC/MS 597
Misc : 50ML, AW118415 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2		Dichlorodifluoromethane (12	6.907	7.491	-8.5	100	0.00
3		Chloromethane	2.023	2.267	-12.1	100	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.127	6.635	-8.3	100	0.00
5		Vinyl Chloride	1.893	2.034	-7.4	101	0.00
6		Bromomethane	1.571	1.827	-16.3	100	0.00
7		Chloroethane	1.073	1.178	-9.8	101	0.00
8		Trichlorofluoromethane (11)	6.683	7.291	-9.1	100	0.00
9	M	1,1-Dichloroethene	3.883	4.228	-8.9	100	0.00
10		Carbon Disulfide	5.624	6.034	-7.3	100	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	3.346	3.625	-8.3	100	0.00
12		Acetone	4.333	4.394	-1.4	100	0.00
13	M	Methylene Chloride	1.768	1.941	-9.8	100	0.00
14		t-1,2-Dichloroethene	2.081	2.272	-9.2	99	0.00
15		1,1-Dichloroethane	4.091	4.490	-9.8	100	0.00
16		Vinyl Acetate	7.317	8.619	-17.8	108	0.00
17		c-1,2-Dichloroethene	2.092	2.310	-10.4	100	0.00
18		2-Butanone	0.941	1.008	-7.1	100	0.00
19		t-Butyl Methyl Ether	5.963	6.460	-8.3	100	0.00
20	t	Chloroform	4.972	5.421	-9.0	100	0.00
21		1,1,1-Trichloroethane	5.148	5.620	-9.2	100	0.00
22		1,1-Dichloropropene	2.973	3.344	-12.5	100	0.00
23	t	Carbon Tetrachloride	4.674	4.989	-6.7	100	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
25	T	Benzene	1.575	1.614	-2.5	100	0.00
26	S	1,2-Dichloroethane-d4	0.478	0.447	6.5	99	0.00
27		1,2-Dichloroethane	0.937	0.939	-0.2	100	0.00
28	M	Trichloroethene	0.676	0.686	-1.5	100	0.00
29		1,2-Dichloropropane	0.594	0.610	-2.7	100	0.00
30		Bromodichloromethane	1.276	1.305	-2.3	100	0.00
31		Dibromomethane	0.629	0.640	-1.7	100	0.00
32		c-1,3-Dichloropropene	0.849	0.866	-2.0	100	0.00
33		4-Methyl-2-Pentanone	1.172	1.223	-4.4	100	0.00
34	S	Toluene-d8	0.767	0.818	-6.6	100	0.00
35	M	Toluene	1.578	1.703	-7.9	100	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
37		t-1,3-Dichloropropene	1.233	1.092	11.4	98	0.00
38		1,1,2-Trichloroethane	1.158	1.073	7.3	100	0.00
39		1,3-Dichloropropane	1.473	1.450	1.6	100	0.00
40		Tetrachloroethene	1.315	1.270	3.4	100	0.00
41		2-Hexanone	0.808	0.844	-4.5	100	0.00
42		Dibromochloromethane	1.967	1.755	10.8	100	0.00
43	t	1,2-Dibromoethane	1.650	1.555	5.8	100	0.00
44		Chlorobenzene	1.923	1.933	-0.5	100	0.00
45		1,1,1,2-Tetrachloroethane	1.169	1.115	4.6	100	0.00
46	T	Ethylbenzene	3.000	3.118	-3.9	100	0.00
47	T	p,&m-Xylene	2.318	2.476	-6.8	100	0.00
48	T	o-Xylene	2.569	2.530	1.5	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\27DEC004.D Vial: 14
Acq On : 27 Dec 2011 10:30 Operator: DT
Sample : 10 PPBV ICAL Inst : GC/MS 597
Misc : 50ML, AW118415 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.366	1.500	-9.8	100	0.00
50		Bromoform	1.507	1.336	11.3	100	0.00
51		Isopropyl benzene	2.748	2.870	-4.4	100	0.00
52	M	1,1,2,2-Tetrachloroethane	2.250	1.964	12.7	99	0.00
53	S	4-Bromofluorobenzene	0.356	0.366	-2.8	100	0.00
54		Benzyl Chloride	1.236	0.982	20.6	100	0.00
55		1,2,3-Trichloropropane	0.658	0.650	1.2	100	0.00
56		n-Propyl Benzene	2.768	3.035	-9.6	100	0.00
57		Bromobenzene	1.557	1.739	-11.7	100	0.00
58		4-Ethyl Toluene	2.771	2.810	-1.4	100	0.00
59	T	1,3,5-Trimethylbenzene	3.474	3.246	6.6	100	0.00
60		2-Chlorotoluene	2.634	2.748	-4.3	100	0.00
61		4-Chlorotoluene	2.046	2.220	-8.5	100	0.00
62		tert-Butylbenzene	2.733	2.907	-6.4	100	0.00
63		1,2,4-Trimethylbenzene	3.149	3.126	0.7	100	0.00
64		sec-Butylbenzene	3.106	3.320	-6.9	100	0.00
65		p-Isopropyltoluene	2.425	2.647	-9.2	100	0.00
66		1,3-Dichlorobenzene	1.461	1.414	3.2	100	0.00
67		1,4-Dichlorobenzene	1.434	1.384	3.5	100	0.00
68		n-Butylbenzene	2.454	2.766	-12.7	100	0.00
69		1,2-Dichlorobenzene	1.475	1.364	7.5	100	0.00
70		1,2-Dibromo-3-chloropropane	0.520	0.478	8.1	100	0.00
71		1,2,4-Trichlorobenzene	0.935	0.970	-3.7	101	0.00
72		Hexachlorobutadiene	0.926	0.895	3.3	100	0.00

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\28DEC003.D Vial: 15
Acq On : 28 Dec 2011 8:12 Operator: DT
Sample : CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	108	0.00
2		Dichlorodifluoromethane (12	6.907	6.965	-0.8	100	-0.01
3		Chloromethane	2.023	1.949	3.7	93	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.127	6.174	-0.8	100	0.00
5		Vinyl Chloride	1.893	1.782	5.9	95	0.00
6		Bromomethane	1.571	1.697	-8.0	100	-0.01
7		Chloroethane	1.073	1.250	-16.5	115	0.00
8		Trichlorofluoromethane (11)	6.683	6.898	-3.2	102	0.00
9	M	1,1-Dichloroethene	3.883	4.193	-8.0	107	0.00
10		Carbon Disulfide	5.624	6.077	-8.1	108	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	3.346	3.621	-8.2	108	-0.01
12		Acetone	4.333	3.812	12.0	94	0.00
13	M	Methylene Chloride	1.768	1.921	-8.7	106	0.00
14		t-1,2-Dichloroethene	2.081	2.289	-10.0	107	0.00
15		1,1-Dichloroethane	4.091	4.532	-10.8	109	0.00
16		Vinyl Acetate	7.317	8.104	-10.8	109	0.00
17		c-1,2-Dichloroethene	2.092	2.382	-13.9	111	0.00
18		2-Butanone	0.941	1.055	-12.1	113	0.00
19		t-Butyl Methyl Ether	5.963	6.324	-6.1	105	0.00
20	t	Chloroform	4.972	5.269	-6.0	105	0.00
21		1,1,1-Trichloroethane	5.148	5.314	-3.2	102	-0.01
22		1,1-Dichloropropene	2.973	3.289	-10.6	106	0.00
23	t	Carbon Tetrachloride	4.674	4.751	-1.6	103	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
25	T	Benzene	1.575	1.685	-7.0	104	0.00
26	S	1,2-Dichloroethane-d4	0.478	0.470	1.7	104	0.00
27		1,2-Dichloroethane	0.937	1.003	-7.0	107	0.00
28	M	Trichloroethene	0.676	0.716	-5.9	104	0.00
29		1,2-Dichloropropane	0.594	0.634	-6.7	104	0.00
30		Bromodichloromethane	1.276	1.313	-2.9	101	0.00
31		Dibromomethane	0.629	0.691	-9.9	108	0.00
32		c-1,3-Dichloropropene	0.849	0.858	-1.1	99	0.00
33		4-Methyl-2-Pentanone	1.172	1.202	-2.6	98	0.00
34	S	Toluene-d8	0.767	0.773	-0.8	94	0.00
35	M	Toluene	1.578	1.551	1.7	91	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
37		t-1,3-Dichloropropene	1.233	1.212	1.7	97	0.00
38		1,1,2-Trichloroethane	1.158	1.226	-5.9	101	0.00
39		1,3-Dichloropropane	1.473	1.625	-10.3	99	0.00
40		Tetrachloroethene	1.315	1.337	-1.7	93	0.00
41		2-Hexanone	0.808	0.881	-9.0	92	0.00
42		Dibromochloromethane	1.967	1.945	1.1	98	0.00
43	t	1,2-Dibromoethane	1.650	1.740	-5.5	99	0.00
44		Chlorobenzene	1.923	1.855	3.5	85	0.00
45		1,1,1,2-Tetrachloroethane	1.169	1.239	-6.0	98	0.00
46	T	Ethylbenzene	3.000	2.903	3.2	83	0.00
47	T	p,&m-Xylene	2.318	2.344	-1.1	84	0.00
48	T	o-Xylene	2.569	2.571	-0.1	91	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\28DEC003.D Vial: 15
Acq On : 28 Dec 2011 8:12 Operator: DT
Sample : CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49		Styrene	1.366	1.317	3.6	78	0.00
50		Bromoform	1.507	1.359	9.8	90	0.00
51		Isopropyl benzene	2.748	2.947	-7.2	91	0.00
52	M	1,1,2,2-Tetrachloroethane	2.250	2.138	5.0	96	0.00
53	S	4-Bromofluorobenzene	0.356	0.353	0.8	85	0.00
54		Benzyl Chloride	1.236	0.811	34.4#	73	0.00
55		1,2,3-Trichloropropane	0.658	0.717	-9.0	98	0.00
56		n-Propyl Benzene	2.768	2.964	-7.1	86	0.00
57		Bromobenzene	1.557	1.543	0.9	79	0.00
58		4-Ethyl Toluene	2.771	2.919	-5.3	92	0.00
59	T	1,3,5-Trimethylbenzene	3.474	3.791	-9.1	103	0.00
60		2-Chlorotoluene	2.634	2.770	-5.2	89	0.00
61		4-Chlorotoluene	2.046	1.913	6.5	76	0.00
62		tert-Butylbenzene	2.733	2.919	-6.8	89	0.00
63		1,2,4-Trimethylbenzene	3.149	3.278	-4.1	93	0.00
64		sec-Butylbenzene	3.106	3.134	-0.9	84	0.00
65		p-Isopropyltoluene	2.425	2.885	-19.0	96	0.00
66		1,3-Dichlorobenzene	1.461	1.394	4.6	87	0.00
67		1,4-Dichlorobenzene	1.434	1.351	5.8	86	0.00
68		n-Butylbenzene	2.454	3.044	-24.0	97	0.00
69		1,2-Dichlorobenzene	1.475	1.374	6.8	89	0.00
70		1,2-Dibromo-3-chloropropane	0.520	0.440	15.4	82	0.00
71		1,2,4-Trichlorobenzene	0.935	0.868	7.2	80	0.00
72		Hexachlorobutadiene	0.926	0.714	22.9	71	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\28DEC003.D
Acq On : 28 Dec 2011 8:12
Sample : CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 15
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\AL111227.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Thu Dec 29 15:56:40 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	108	0.00
2		Propene	1.577	1.615	-2.4	94	0.00
3		isobutane	0.086	0.053	NA ~~-38.4#~~	62	0.00
4		1,3-Butadiene	1.232	1.177	4.5	92	0.00
5		Methanol	1.279	0.528	NA ~~-58.7#~~	88	0.00
6		Acetaldehyde	0.575	0.489	15.0	87	0.00
7		Ethanol	0.938	1.159	-23.6	180#	0.00
8		Vinyl Bromide	1.626	1.809	-11.3	107	0.00
9		Isopropanol	3.713	3.711	0.1	105	0.00
10		Acrolein	0.669	0.737	-10.2	102	0.00
11		t-Butanol	3.508	3.645	-3.9	108	0.01
12		Allyl Chloride	2.368	2.671	-12.8	108	0.00
13		Acrylonitrile	1.364	1.394	-2.2	96	0.00
14		t-Butyl methyl ether	5.933	6.275	-5.8	105	0.00
15		n-Hexane	3.252	3.578	-10.0	105	0.00
16		Isopropyl ether	6.181	6.842	-10.7	104	0.00
17		t-Butyl ethyl ether	2.240	2.419	-8.0	108	0.00
18		Ethyl Acetate	0.465	0.483	-3.9	104	0.00
19		2,2-Dichloropropane	3.151	3.213	-2.0	101	0.00
20		Tetrahydrofuran	1.010	1.068	-5.7	110	0.00
21		Cyclohexane	3.464	3.915	-13.0	109	0.00
22		2,2,4-Trimethylpentane	9.589	10.335	-7.8	101	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
24	S	1,2-Dichloroethane-d4	0.490	0.471	3.9	106	0.00
25		t-Amyl methyl ether	1.267	1.288	-1.7	104	0.00
26		Heptane	0.424	0.422	0.5	88	0.00
27		1,4-Dioxane	0.393	0.423	-7.6	111	0.00
28		2-chloroethylvinylether	0.003	0.000	NA ~~100.0#~~	0#	-11.84#
29	S	Toluene-d8	0.766	0.766	0.0	95	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
31		Cyclohexanone	0.975	1.079	-10.7	101	0.00
32	S	4-Bromofluorobenzene	0.595	0.559	6.1	89	0.00
33		Dicyclopentadiene	0.025	0.041	NA ~~-64.0#~~	140	0.00
34		Naphthalene	2.302	1.950	15.3	75	0.00
35		1,2,3-Trichlorobenzene	0.004	0.000	NA 100.0#	0#	-22.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\27DEC004.D
Acq On : 27 Dec 2011 10:30
Sample : 10 PPBV ICAL
Misc : 50ML, AW118415
MS Integration Params: RTEINT.P

Vial: 14
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\AL111227.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Thu Dec 29 15:56:40 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2		Propene	1.577	1.874	-18.8	100	0.00
3		isobutane	0.086	0.093	-8.1	100	0.00
4		1,3-Butadiene	1.232	1.392	-13.0	100	0.00
5		Methanol	1.279	0.649	NA ~~-49.3#~~	100	0.00
6		Acetaldehyde	0.575	0.609	-5.9	100	0.00
7		Ethanol	0.938	0.699	25.5	100	0.00
8		Vinyl Bromide	1.626	1.826	-12.3	100	0.00
9		Isopropanol	3.713	3.819	-2.9	100	0.00
10		Acrolein	0.669	0.785	-17.3	100	0.00
11		t-Butanol	3.508	3.653	-4.1	100	0.00
12		Allyl Chloride	2.368	2.693	-13.7	100	0.00
13		Acrylonitrile	1.364	1.572	-15.2	100	0.00
14		t-Butyl methyl ether	5.933	6.460	-8.9	100	0.00
15		n-Hexane	3.252	3.700	-13.8	100	0.00
16		Isopropyl ether	6.181	7.117	-15.1	100	0.00
17		t-Butyl ethyl ether	2.240	2.428	-8.4	100	0.00
18		Ethyl Acetate	0.465	0.502	-8.0	100	0.00
19		2,2-Dichloropropane	3.151	3.453	-9.6	100	0.00
20		Tetrahydrofuran	1.010	1.050	-4.0	100	0.00
21		Cyclohexane	3.464	3.879	-12.0	100	0.00
22		2,2,4-Trimethylpentane	9.589	11.075	-15.5	100	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
24	S	1,2-Dichloroethane-d4	0.490	0.449	8.4	100	0.00
25		t-Amyl methyl ether	1.267	1.249	1.4	100	0.00
26		Heptane	0.424	0.485	-14.4	100	0.00
27		1,4-Dioxane	0.393	0.384	2.3	100	0.00
28		2-chloroethylvinylether	0.003	0.001	NA ~~-66.7#~~	100	0.00
29	S	Toluene-d8	0.766	0.811	-5.9	100	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
31		Cyclohexanone	0.975	0.948	2.8	100	0.00
32	S	4-Bromofluorobenzene	0.595	0.559	6.1	100	0.00
33		Dicyclopentadiene	0.025	0.026	-4.0	100	0.00
34		Naphthalene	2.302	2.298	0.2	100	0.00
35		1,2,3-Trichlorobenzene	0.004	0.000	NA ~~100.0#~~	0#	-22.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AirTECHNOLOGY
Laboratories, Inc.

January 11, 2012

ACLASS ACCREDITED DoD ELAP
ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

nelac
FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega – SVE System; E742
Lab Number: C122107-01/34

Enclosed are **revised** results for sample(s) received 12/21/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Report revised to correct a laboratory generated error in the sample identifications, as indicated by the client.
- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Total Number of Pages: 69

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

- Standard ■
- 48 hours ☐
- Same Day ☐
- 72 hours ☐
- 24 hours ☐
- 96 hours ☐
- Other:

DELIVERABLES

- EDD ■
- EDF ☐
- Level 3 ☐
- Level 4 ☐

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	E-742
Project Name:	Omega - SVE System
Report To:	Jaime Dinello
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:
Bill to: de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	TO-15 (TAL 2.4)					
C122107-01	OC_SVE_VE-1M_122011	12/20/2011	1421	Summa	Air	No	X					
-02	OC_SVE_VE-2S_122011	12/20/2011	1410	Summa	Air	No	X					
-03	OC_SVE_VE-2M_122011	12/20/2011	1416	Summa	Air	No	X					
-04	OC_SVE_VE-3S_122011	12/20/2011	1352	Summa	Air	No	X					
-05	OC_SVE_VE-3M_122011	12/20/2011	1357	Summa	Air	No	X					
-06	OC_SVE_VE-4S_122011	12/20/2011	1447	Summa	Air	No	X					
-07	OC_SVE_VE-4M_122011	12/20/2011	1441	Summa	Air	No	X					
-08	OC_SVE_VE-5M_122011	12/20/2011	1455	Summa	Air	No	X					
-09	OC_SVE_VE-7S_122011	12/20/2011	1110	Summa	Air	No	X					

AUTHORIZATION TO PERFORM WORK: A. MILLER	COMPANY: JHA	DATE/TIME: 12/20/11 0800	
SAMPLED BY: A. MILLER	COMPANY: Jacob & Hefner Associates, Inc.	DATE/TIME: 12/20/11 0800	
RELINQUISHED BY: [signature]	DATE/TIME: 12/21/11 935	RECEIVED BY: DAN THOMPSON	DATE/TIME: 12/21/11 935
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other

Rev. 03 - 5/7/09

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

Standard	■	48 hours	☐
Same Day	☐	72 hours	☐
24 hours	☐	96 hours	☐
Other:			

DELIVERABLES

EDD	■
EDF	☐
Level 3	☐
Level 4	☐

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	E-742
Project Name:	Omega - SVE System
Report To:	Jaime Dinello
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:
Bill to: de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	TO-15 (TAL 2.4)					
C122107-10	OC_SVE_VMP-1_122011	12/20/2011	1428	Summa	Air	No	X					
-11	OC_SVE_VMP-2_122011	12/20/2011	1425	Summa	Air	No	X					
-12	OC_SVE_VMP-3_122011	12/20/2011	1358	Summa	Air	No	X					
-13	OC_SVE_VMP-4_122011	12/20/2011	1138	Summa	Air	No	X					
-14	OC_SVE_VMP-5_122011	12/20/2011	1104	Summa	Air	No	X					
-15	OC_SVE_VMP-6_122011	12/20/2011	1055	Summa	Air	No	X					
-16	OC_SVE_VMP-11_122011	12/20/2011	0935	Summa	Air	No	X					
-17	OC_SVE_VMP-12_122011	12/20/2011	0923	Summa	Air	No	X					
-18	OC_SVE_VMP-13_122011	12/20/2011	0835	Summa	Air	No	X					
-19	OC_SVE_VMP-14_122011	12/20/2011	0855	Summa	Air	No	X					

AUTHORIZATION TO PERFORM WORK: A. MILLER	COMPANY: JHA	DATE/TIME: 12/20/11 0800	
SAMPLED BY: A. MILLER	COMPANY: Jacob & Hefner Associates, Inc.	DATE/TIME: 12/20/11 0800	
RELINQUISHED BY: [signature]	DATE/TIME: 12/21/11 935	RECEIVED BY: DAN TONGCON	DATE/TIME: 12/21/11 935
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

*OC-SVE-VMP-11_122011 recvd at 12/21/11 1540, SEE COC TO 1 OF 1 ATTACHED. GTD

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS (Courier) ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME: Standard ■ | 48 hours ☐ | Same Day ☐ | 72 hours ☐ | 24 hours ☐ | 96 hours ☐ | Other:

DELIVERABLES: EDD ■ | EDF ☐ | Level 3 ☐ | Level 4 ☐

Condition upon receipt: Sealed Yes ☐ No ☐ | Intact Yes ☐ No ☐ | Chilled _____ deg C

Project No.:	E-742
Project Name:	Omega - SVE System
Report To:	Jaime Dinello
Company:	de maximis, Inc.
Street:	1322 Scott Street, Suite 104
City/State/Zip:	San Diego, CA 92106
Phone& Fax:	(310) 926-5368
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:	
Bill to:	de maximis, inc.
	1322 Scott Street, Suite 104
	San Diego, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	TO-15 (TAL 2.4)					
C122107-20	OC_SVE_VMP-15_122011	12/20/2011	0914	Summa	Air	No	X					
-21	OC_SVE_VMP-16_122011	12/20/2011	0840	Summa	Air	No	X					
-22	OC_SVE_VMP-17_122011	12/20/2011	0904	Summa	Air	No	X					
-23	OC_SVE_VMP-19_122011	12/20/2011	1310	Summa	Air	No	X					
-24	OC_SVE_VMP-20_122011	12/20/2011	1510	Summa	Air	No	X					
-25	OC_SVE_VMP-21_122011	12/20/2011	1340	Summa	Air	No	X					
-26	OC_SVE_VMP-22_122011	12/20/2011	1132	Summa	Air	No	X					
-27	OC_SVE_VMP-23_122011	12/20/2011	1031	Summa	Air	No	X					
-28	OC_SVE_VMP-24_122011	12/20/2011	1019	Summa	Air	No	X					

AUTHORIZATION TO PERFORM WORK: A. MILLER	COMPANY: JHA	DATE/TIME: 12/20/11 0800	
SAMPLED BY: A. MILLER	COMPANY: Jacob & Hefner Associates, Inc.	DATE/TIME: 12/20/11 0800	
RELINQUISHED BY: [signature]	DATE/TIME: 12/21/11 935	RECEIVED BY: DON THINGSON	DATE/TIME: 12/21/11 935
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS (Courier) ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME				DELIVERABLES		PAGE: 4 OF 4
Standard	■	48 hours	☐	EDD	■	Condition upon receipt:
Same Day	☐	72 hours	☐	EDF	☐	Sealed Yes ☐ No ☐
24 hours	☐	96 hours	☐	Level 3	☐	Intact Yes ☐ No ☐
Other:				Level 4	☐	Chilled _____ deg C

Project No.:	E-742		
Project Name:	Omega - SVE System		
Report To:	Jaime Dinello	**BILLING**	**ANALYSIS REQUEST**
Company:	de maximis, Inc.	***P.O. No.:***	
Street:	1322 Scott Street, Suite 104	***Bill to:*** de maximis, inc.	
City/State/Zip:	San Diego, CA 92106	1322 Scott Street, Suite 104	
Phone& Fax:	(310) 926-5368	San Diego, CA 92106	
e-mail:	jdinello@demaximis.com		

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 (TAL 2.4)					
C122107-29	OC_SVE_VMP-25_122011	12/20/2011	1040	Summa	Air	No	X					
-30	OC_SVE_VMP-26_122011	12/20/2011	1330	Summa	Air	No	X					
-31	OC_SVE_VMP-27_122011	12/20/2011	1251	Summa	Air	No	X					
-32	OC_SVE_VE-1M_122011K	12/20/2011	1426	Summa	Air	No	X					
-33	OC_SVE_VE-5M_122011K	12/20/2011	1500	Summa	Air	No	X					
-34	OC_SVE_VMP-6_122011K	12/20/2011	1100	Summa	Air	No	X					

AUTHORIZATION TO PERFORM WORK: A. MILLER	COMPANY: JHA	DATE/TIME: 12/20/11 0800	
SAMPLED BY: A. MILLER	COMPANY: Jacob & Hefner Associates, Inc.	DATE/TIME: 12/20/11 0800	
RELINQUISHED BY: [signature]	DATE/TIME: 12/21/11 935	RECEIVED BY: DON THANGSON	DATE/TIME: 12/21/11 935
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME		DELIVERABLES	PAGE: 1 OF 1
Standard ☒	48 hours ☐	EDD ☒	Condition upon receipt:
Same Day ☐	72 hours ☐	EDF ☐	Sealed Yes ☐ No ☐
24 hours ☐	96 hours ☐	LEVEL 3 ☐	Intact Yes ☐ No ☐
Other:		LEVEL 4 ☐	Chilled _____ deg C

Project No.: E742
Project Name: OMEGA - SVE SYSTEM
Report To: JAIME DINELLO
Company: DE MAXIMIS, INC.
Street: 1322 SCOTT ST. SUITE 104
City/State/Zip: SAN DIEGO, CA 92106
Phone& Fax: (310) 926-5368
e-mail: JDINELLO@DEMAXIMIS.COM

BILLING

P.O. No.:
Bill to: DE MAXIMIS, INC.
1322 SCOTT ST. SUITE 104
SAN DIEGO, CA 92106

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	TO-15 (TAL 2.4)					
C122107-16	OC-SVE-UMP-11-122111	12/21/11	1352	AIR	SUMMA	X					

AUTHORIZATION TO PERFORM WORK	COMPANY	DATE/TIME
J. DINELLO	DE MAXIMIS	12/21/11 1330
SAMPLED BY	**COMPANY**	**DATE/TIME**
A. MILLER	JHA	12/21/11 1330

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	12/21/11 1540	DON TONGSON	12/21/11 1540

COMMENTS

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCL **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other

Rev. 03 - 5/7/09

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-01			C122107-02			C122107-03			C122107-04		
Client Sample I.D.:	OC_SVE_VE-1M_122011			OC_SVE_VE-2S_122011			OC_SVE_VE-2M_122011			OC_SVE_VE-3S_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/29/11			12/29/11			12/29/11		
QC Batch No.:	111230MS2A1			111229MS3A1			111229MS3A1			111229MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	4.7			1.8			1.9			1.8		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.95 J	4.7	0.29	1.0 J	1.8	0.11	0.96 J	1.9	0.12	0.85 J	1.8	0.11
Chloromethane	ND	9.4	1.6	ND	3.6	0.60	1.2 J	3.9	0.65	0.91 J	3.6	0.60
1,2-Cl-1,1,2,2-F ethane (114)	ND	4.7	0.60	ND	1.8	0.23	ND	1.9	0.25	ND	1.8	0.23
Vinyl Chloride	ND	4.7	1.0	ND	1.8	0.40	ND	1.9	0.43	ND	1.8	0.40
Bromomethane	ND	4.7	1.6	ND	1.8	0.62	ND	1.9	0.67	ND	1.8	0.62
Chloroethane	ND	4.7	3.5	ND	1.8	1.3	ND	1.9	1.4	ND	1.8	1.3
Trichlorofluoromethane (11)	64	4.7	1.9	ND	1.8	0.74	ND	1.9	0.80	ND	1.8	0.74
1,1-Dichloroethene	730	4.7	0.51	0.83 J	1.8	0.19	1.1 J	1.9	0.21	0.56 J	1.8	0.19
Carbon Disulfide	ND	23	0.69	1.1 J	9.0	0.27	0.97 J	9.7	0.29	1.1 J	9.0	0.27
1,1,2-Cl 1,2,2-F ethane (113)	100	4.7	1.1	ND	1.8	0.41	ND	1.9	0.45	ND	1.8	0.41
Acetone	12 J	23	1.5	26	9.0	0.57	15	9.7	0.61	12	9.0	0.57
Methylene Chloride	ND	4.7	0.92	ND	1.8	0.35	ND	1.9	0.38	ND	1.8	0.35
t-1,2-Dichloroethene	ND	4.7	0.76	ND	1.8	0.29	ND	1.9	0.31	ND	1.8	0.29
1,1-Dichloroethane	ND	4.7	0.55	ND	1.8	0.21	ND	1.9	0.23	ND	1.8	0.21
Vinyl Acetate	ND	23	0.81	ND	9.0	0.31	ND	9.7	0.34	ND	9.0	0.31
c-1,2-Dichloroethene	ND	4.7	1.0	ND	1.8	0.40	ND	1.9	0.43	ND	1.8	0.40
2-Butanone	ND	4.7	1.2	ND	1.8	0.46	ND	1.9	0.49	ND	1.8	0.46
t-Butyl Methyl Ether (MTBE)	ND	4.7	0.93	ND	1.8	0.36	ND	1.9	0.39	ND	1.8	0.36
Chloroform	6.8	4.7	0.65	ND	1.8	0.25	ND	1.9	0.27	ND	1.8	0.25
1,1,1-Trichloroethane	2.2 J	4.7	0.53	ND	1.8	0.21	ND	1.9	0.22	ND	1.8	0.21
Carbon Tetrachloride	ND	4.7	0.54	ND	1.8	0.21	ND	1.9	0.22	ND	1.8	0.21
Benzene	1.1 J	4.7	0.92	0.64 J	1.8	0.35	0.74 J	1.9	0.38	0.69 J	1.8	0.35
1,2-Dichloroethane	ND	4.7	1.2	ND	1.8	0.47	ND	1.9	0.51	ND	1.8	0.47
Trichloroethene	72	4.7	0.73	0.58 J	1.8	0.28	1.1 J	1.9	0.30	1.0 J	1.8	0.28
1,2-Dichloropropane	ND	4.7	0.59	ND	1.8	0.23	ND	1.9	0.25	ND	1.8	0.23
Bromodichloromethane	ND	4.7	0.70	ND	1.8	0.27	ND	1.9	0.29	ND	1.8	0.27
c-1,3-Dichloropropene	ND	4.7	1.1	ND	1.8	0.41	ND	1.9	0.44	ND	1.8	0.41
4-Methyl-2-Pentanone	2.9 J	4.7	0.27	ND	1.8	0.10	ND	1.9	0.11	ND	1.8	0.10
Toluene	5.4	4.7	0.77	0.99 J	1.8	0.30	1.9	1.9	0.32	1.8	1.8	0.30
t-1,3-Dichloropropene	ND	4.7	1.2	ND	1.8	0.48	ND	1.9	0.51	ND	1.8	0.48
1,1,2-Trichloroethane	ND	4.7	0.96	ND	1.8	0.37	ND	1.9	0.40	ND	1.8	0.37
Tetrachloroethene	780	4.7	0.97	6.9	1.8	0.38	24	1.9	0.40	9.6	1.8	0.38
2-Hexanone	ND	4.7	0.67	ND	1.8	0.26	ND	1.9	0.28	ND	1.8	0.26
Dibromochloromethane	ND	4.7	0.81	ND	1.8	0.31	ND	1.9	0.33	ND	1.8	0.31
1,2-Dibromoethane	ND	4.7	0.61	ND	1.8	0.24	ND	1.9	0.25	ND	1.8	0.24
Chlorobenzene	ND	4.7	0.67	ND	1.8	0.26	ND	1.9	0.28	ND	1.8	0.26

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-01			C122107-02			C122107-03			C122107-04		
Client Sample I.D.:	OC_SVE_VE-1M_122011			OC_SVE_VE-2S_122011			OC_SVE_VE-2M_122011			OC_SVE_VE-3S_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/29/11			12/29/11			12/29/11		
QC Batch No.:	111230MS2A1			111229MS3A1			111229MS3A1			111229MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	4.7			1.8			1.9			1.8		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	1.6 J	4.7	0.17	ND	1.8	0.065	0.23 J	1.9	0.070	ND	1.8	0.065
p,&m-Xylene	7.2	4.7	1.1	0.67 J	1.8	0.41	0.91 J	1.9	0.44	0.76 J	1.8	0.41
o-Xylene	2.4 J	4.7	0.65	0.31 J	1.8	0.25	0.39 J	1.9	0.27	0.29 J	1.8	0.25
Isopropanol	ND	23	11	4.2 J	9.0	4.1	ND	9.7	4.4	ND	9.0	4.1
n-Hexane	ND	23	4.0	ND	9.0	1.6	ND	9.7	1.7	ND	9.0	1.6
1,4-Dioxane	8.1 J	23	5.3	ND	9.0	2.0	ND	9.7	2.2	ND	9.0	2.0
Total VOC's	1,800			43			49			30		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	92%	70-130%	84%	70-130%	83%	70-130%	84%	70-130%
Toluene-d8	99%	70-130%	97%	70-130%	99%	70-130%	103%	70-130%
4-Bromofluorobenzene	97%	70-130%	114%	70-130%	108%	70-130%	107%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date _____
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-05			C122107-06			C122107-07			C122107-08		
Client Sample I.D.:	OC_SVE_VE-3M_122011			OC_SVE_VE-4S_122011			OC_SVE_VE-4M_122011			OC_SVE_VE-5M_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/29/11			12/29/11			12/29/11			12/30/11		
QC Batch No.:	111229MS3A1			111229MS3A1			111229MS3A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.8			1.8			1.9			2.5		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	1.0 J	1.8	0.11	1.0 J	1.8	0.11	1.0 J	1.9	0.11	0.62 J	2.5	0.15
Chloromethane	0.63 J	3.6	0.60	ND	3.6	0.60	ND	3.7	0.62	ND	5.0	0.83
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.8	0.23	ND	1.8	0.23	ND	1.9	0.24	ND	2.5	0.32
Vinyl Chloride	ND	1.8	0.40	ND	1.8	0.40	ND	1.9	0.41	ND	2.5	0.55
Bromomethane	ND	1.8	0.62	ND	1.8	0.62	ND	1.9	0.65	ND	2.5	0.86
Chloroethane	ND	1.8	1.3	ND	1.8	1.3	ND	1.9	1.4	ND	2.5	1.8
Trichlorofluoromethane (11)	ND	1.8	0.74	0.76 J	1.8	0.74	ND	1.9	0.77	ND	2.5	1.0
1,1-Dichloroethene	1.7 J	1.8	0.19	1.6 J	1.8	0.19	2.1	1.9	0.20	2.0 J	2.5	0.27
Carbon Disulfide	1.1 J	9.0	0.27	1.1 J	9.0	0.27	1.1 J	9.4	0.28	ND	12	0.37
1,1,2-Cl 1,2,2-F ethane (113)	ND	1.8	0.41	9.3	1.8	0.41	0.48 J	1.9	0.43	ND	2.5	0.57
Acetone	31	9.0	0.57	18	9.0	0.57	26	9.4	0.59	20	12	0.78
Methylene Chloride	ND	1.8	0.35	ND	1.8	0.35	ND	1.9	0.37	7.1	2.5	0.49
t-1,2-Dichloroethene	ND	1.8	0.29	ND	1.8	0.29	0.41 J	1.9	0.30	ND	2.5	0.40
1,1-Dichloroethane	ND	1.8	0.21	ND	1.8	0.21	ND	1.9	0.22	ND	2.5	0.30
Vinyl Acetate	ND	9.0	0.31	ND	9.0	0.31	ND	9.4	0.33	ND	12	0.43
c-1,2-Dichloroethene	ND	1.8	0.40	ND	1.8	0.40	ND	1.9	0.41	ND	2.5	0.55
2-Butanone	ND	1.8	0.46	ND	1.8	0.46	5.9	1.9	0.47	ND	2.5	0.63
t-Butyl Methyl Ether (MTBE)	ND	1.8	0.36	ND	1.8	0.36	ND	1.9	0.37	ND	2.5	0.49
Chloroform	ND	1.8	0.25	0.31 J	1.8	0.25	0.41 J	1.9	0.26	3.2	2.5	0.35
1,1,1-Trichloroethane	ND	1.8	0.21	0.35 J	1.8	0.21	ND	1.9	0.21	0.83 J	2.5	0.28
Carbon Tetrachloride	ND	1.8	0.21	ND	1.8	0.21	ND	1.9	0.21	ND	2.5	0.29
Benzene	0.68 J	1.8	0.35	0.56 J	1.8	0.35	1.1 J	1.9	0.37	0.65 J	2.5	0.49
1,2-Dichloroethane	ND	1.8	0.47	ND	1.8	0.47	ND	1.9	0.49	5.9	2.5	0.65
Trichloroethene	6.2	1.8	0.28	1.3 J	1.8	0.28	2.5	1.9	0.29	2.4 J	2.5	0.39
1,2-Dichloropropane	ND	1.8	0.23	ND	1.8	0.23	ND	1.9	0.24	ND	2.5	0.31
Bromodichloromethane	ND	1.8	0.27	ND	1.8	0.27	ND	1.9	0.28	ND	2.5	0.37
c-1,3-Dichloropropene	ND	1.8	0.41	ND	1.8	0.41	ND	1.9	0.42	ND	2.5	0.56
4-Methyl-2-Pentanone	ND	1.8	0.10	ND	1.8	0.10	ND	1.9	0.11	ND	2.5	0.14
Toluene	1.1 J	1.8	0.30	1.4 J	1.8	0.30	1.6 J	1.9	0.31	1.1 J	2.5	0.41
t-1,3-Dichloropropene	ND	1.8	0.48	ND	1.8	0.48	ND	1.9	0.49	ND	2.5	0.66
1,1,2-Trichloroethane	ND	1.8	0.37	ND	1.8	0.37	ND	1.9	0.38	ND	2.5	0.51
Tetrachloroethene	60	1.8	0.38	32	1.8	0.38	42	1.9	0.39	520	2.5	0.52
2-Hexanone	ND	1.8	0.26	ND	1.8	0.26	ND	1.9	0.27	ND	2.5	0.35
Dibromochloromethane	ND	1.8	0.31	ND	1.8	0.31	ND	1.9	0.32	ND	2.5	0.43
1,2-Dibromoethane	ND	1.8	0.24	ND	1.8	0.24	ND	1.9	0.25	ND	2.5	0.33
Chlorobenzene	ND	1.8	0.26	ND	1.8	0.26	ND	1.9	0.27	ND	2.5	0.36

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-05			C122107-06			C122107-07			C122107-08		
Client Sample I.D.:	OC_SVE_VE-3M_122011			OC_SVE_VE-4S_122011			OC_SVE_VE-4M_122011			OC_SVE_VE-5M_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/29/11			12/29/11			12/29/11			12/30/11		
QC Batch No.:	111229MS3A1			111229MS3A1			111229MS3A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.8			1.8			1.9			2.5		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	1.8	0.065	ND	1.8	0.065	0.15 J	1.9	0.068	ND	2.5	0.090
p,&m-Xylene	0.54 J	1.8	0.41	0.65 J	1.8	0.41	0.73 J	1.9	0.43	0.92 J	2.5	0.57
o-Xylene	ND	1.8	0.25	ND	1.8	0.25	0.29 J	1.9	0.26	0.46 J	2.5	0.34
Isopropanol	ND	9.0	4.1	ND	9.0	4.1	ND	9.4	4.3	ND	12	5.7
n-Hexane	ND	9.0	1.6	ND	9.0	1.6	ND	9.4	1.6	ND	12	2.1
1,4-Dioxane	ND	9.0	2.0	190	9.0	2.0	ND	9.4	2.1	ND	12	2.8
Total VOC's	100			260			86			570		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	85%	70-130%	84%	70-130%	84%	70-130%	100%	70-130%
Toluene-d8	96%	70-130%	98%	70-130%	100%	70-130%	91%	70-130%
4-Bromofluorobenzene	102%	70-130%	107%	70-130%	106%	70-130%	98%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1/11/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-09			C122107-10			C122107-11			C122107-12		
Client Sample I.D.:	OC_SVE_VE-7S_122011			OC_SVE_VMP-1_122011			OC_SVE_VMP-2_122011			OC_SVE_VMP-3_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/29/11			12/29/11			12/30/11			12/30/11		
QC Batch No.:	111229MS3A1			111229MS3A1			111229MS3A1			111229MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.8			1.9		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.88 J	1.7	0.11	1.9	1.7	0.11	0.93 J	1.8	0.11	1.1 J	1.9	0.11
Chloromethane	0.72 J	3.5	0.58	1.8 J	3.5	0.58	1.5 J	3.7	0.61	1.5 J	3.7	0.62
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.7	0.22	ND	1.7	0.22	ND	1.8	0.24	ND	1.9	0.24
Vinyl Chloride	ND	1.7	0.39	ND	1.7	0.39	ND	1.8	0.41	ND	1.9	0.41
Bromomethane	ND	1.7	0.60	ND	1.7	0.60	ND	1.8	0.64	ND	1.9	0.65
Chloroethane	ND	1.7	1.3	ND	1.7	1.3	ND	1.8	1.4	ND	1.9	1.4
Trichlorofluoromethane (11)	ND	1.7	0.71	0.91 J	1.7	0.71	ND	1.8	0.75	ND	1.9	0.77
1,1-Dichloroethene	2.5	1.7	0.19	0.20 J	1.7	0.19	ND	1.8	0.20	ND	1.9	0.20
Carbon Disulfide	1.2 J	8.7	0.26	0.56 J	8.7	0.26	0.62 J	9.2	0.27	1.2 J	9.4	0.28
1,1,2-Cl 1,2,2-F ethane (113)	0.43 J	1.7	0.40	ND	1.7	0.40	ND	1.8	0.42	0.45 J	1.9	0.43
Acetone	20	8.7	0.55	30	8.7	0.55	27	9.2	0.58	17	9.4	0.59
Methylene Chloride	0.66 J	1.7	0.34	1.4 J	1.7	0.34	0.57 J	1.8	0.36	ND	1.9	0.37
t-1,2-Dichloroethene	0.42 J	1.7	0.28	ND	1.7	0.28	ND	1.8	0.30	ND	1.9	0.30
1,1-Dichloroethane	ND	1.7	0.21	ND	1.7	0.21	ND	1.8	0.22	ND	1.9	0.22
Vinyl Acetate	ND	8.7	0.30	ND	8.7	0.30	ND	9.2	0.32	ND	9.4	0.33
c-1,2-Dichloroethene	ND	1.7	0.38	ND	1.7	0.38	ND	1.8	0.40	ND	1.9	0.41
2-Butanone	ND	1.7	0.44	2.2	1.7	0.44	4.0	1.8	0.47	ND	1.9	0.47
t-Butyl Methyl Ether (MTBE)	ND	1.7	0.35	ND	1.7	0.35	ND	1.8	0.36	ND	1.9	0.37
Chloroform	ND	1.7	0.24	0.27 J	1.7	0.24	ND	1.8	0.26	ND	1.9	0.26
1,1,1-Trichloroethane	0.51 J	1.7	0.20	ND	1.7	0.20	ND	1.8	0.21	ND	1.9	0.21
Carbon Tetrachloride	ND	1.7	0.20	ND	1.7	0.20	ND	1.8	0.21	ND	1.9	0.21
Benzene	0.78 J	1.7	0.34	2.5	1.7	0.34	1.1 J	1.8	0.36	1.0 J	1.9	0.37
1,2-Dichloroethane	ND	1.7	0.46	ND	1.7	0.46	ND	1.8	0.48	ND	1.9	0.49
Trichloroethene	5.4	1.7	0.27	ND	1.7	0.27	ND	1.8	0.29	1.3 J	1.9	0.29
1,2-Dichloropropane	ND	1.7	0.22	ND	1.7	0.22	ND	1.8	0.23	ND	1.9	0.24
Bromodichloromethane	ND	1.7	0.26	ND	1.7	0.26	ND	1.8	0.28	ND	1.9	0.28
c-1,3-Dichloropropene	ND	1.7	0.39	ND	1.7	0.39	ND	1.8	0.41	ND	1.9	0.42
4-Methyl-2-Pentanone	ND	1.7	0.10	ND	1.7	0.10	ND	1.8	0.11	ND	1.9	0.11
Toluene	2.1	1.7	0.29	12	1.7	0.29	3.0	1.8	0.30	2.3	1.9	0.31
t-1,3-Dichloropropene	ND	1.7	0.46	ND	1.7	0.46	ND	1.8	0.49	ND	1.9	0.49
1,1,2-Trichloroethane	ND	1.7	0.36	ND	1.7	0.36	ND	1.8	0.38	ND	1.9	0.38
Tetrachloroethene	85	1.7	0.36	7.2	1.7	0.36	1.2 J	1.8	0.38	60	1.9	0.39
2-Hexanone	ND	1.7	0.25	ND	1.7	0.25	ND	1.8	0.26	ND	1.9	0.27
Dibromochloromethane	ND	1.7	0.30	ND	1.7	0.30	ND	1.8	0.32	ND	1.9	0.32
1,2-Dibromoethane	ND	1.7	0.23	ND	1.7	0.23	ND	1.8	0.24	ND	1.9	0.25
Chlorobenzene	ND	1.7	0.25	ND	1.7	0.25	ND	1.8	0.27	ND	1.9	0.27

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-09			C122107-10			C122107-11			C122107-12		
Client Sample I.D.:	OC_SVE_VE-7S_122011			OC_SVE_VMP-1_122011			OC_SVE_VMP-2_122011			OC_SVE_VMP-3_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/29/11			12/29/11			12/30/11			12/30/11		
QC Batch No.:	111229MS3A1			111229MS3A1			111229MS3A1			111229MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.8			1.9		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	0.32 J	1.7	0.063	0.80 J	1.7	0.063	0.31 J	1.8	0.066	ND	1.9	0.068
p,&m-Xylene	1.4 J	1.7	0.40	3.0	1.7	0.40	1.2 J	1.8	0.42	0.89 J	1.9	0.43
o-Xylene	0.48 J	1.7	0.24	0.96 J	1.7	0.24	0.48 J	1.8	0.25	0.38 J	1.9	0.26
Isopropanol	ND	8.7	4.0	9.2	8.7	4.0	ND	9.2	4.2	ND	9.4	4.3
n-Hexane	ND	8.7	1.5	1.7 J	8.7	1.5	ND	9.2	1.6	ND	9.4	1.6
1,4-Dioxane	ND	8.7	2.0	ND	8.7	2.0	ND	9.2	2.1	ND	9.4	2.1
Total VOC's	120			77			42			87		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	85%	70-130%	83%	70-130%	85%	70-130%	85%	70-130%
Toluene-d8	102%	70-130%	93%	70-130%	98%	70-130%	99%	70-130%
4-Bromofluorobenzene	104%	70-130%	104%	70-130%	107%	70-130%	104%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-13			C122107-14			C122107-15			C122107-16		
Client Sample I.D.:	OC_SVE_VMP-4_122011			OC_SVE_VMP-5_122011			OC_SVE_VMP-6_122011			OC_SVE_VMP-11_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/29/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111229MS3A1			111229MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	9.4			1.7			5.8			1.8		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	ND	9.4	0.57	0.38 J	1.7	0.11	2.0 J	5.8	0.36	0.61 J	1.8	0.11
Chloromethane	ND	19	3.1	ND	3.5	0.58	3.4 J	12	1.9	ND	3.6	0.60
1,2-Cl-1,1,2,2-F ethane (114)	ND	9.4	1.2	ND	1.7	0.22	ND	5.8	0.75	ND	1.8	0.23
Vinyl Chloride	ND	9.4	2.1	ND	1.7	0.39	ND	5.8	1.3	ND	1.8	0.40
Bromomethane	ND	9.4	3.2	ND	1.7	0.60	ND	5.8	2.0	ND	1.8	0.62
Chloroethane	ND	9.4	7.0	ND	1.7	1.3	ND	5.8	4.3	ND	1.8	1.3
Trichlorofluoromethane (11)	170	9.4	3.8	ND	1.7	0.71	ND	5.8	2.4	ND	1.8	0.74
1,1-Dichloroethene	1,300	9.4	1.0	1.2 J	1.7	0.19	12	5.8	0.63	4.8	1.8	0.19
Carbon Disulfide	ND	47	1.4	ND	8.7	0.26	5.3 J	29	0.86	ND	9.0	0.27
1,1,2-Cl 1,2,2-F ethane (113)	380	9.4	2.2	ND	1.7	0.40	18	5.8	1.3	ND	1.8	0.41
Acetone	42 J	47	2.9	6.9 J	8.7	0.55	94	29	1.8	10	9.0	0.57
Methylene Chloride	ND	9.4	1.8	ND	1.7	0.34	2.4 J	5.8	1.1	0.46 J	1.8	0.35
t-1,2-Dichloroethene	ND	9.4	1.5	0.34 J	1.7	0.28	ND	5.8	0.94	ND	1.8	0.29
1,1-Dichloroethane	19	9.4	1.1	ND	1.7	0.21	2.2 J	5.8	0.69	ND	1.8	0.21
Vinyl Acetate	ND	47	1.6	ND	8.7	0.30	ND	29	1.0	ND	9.0	0.31
c-1,2-Dichloroethene	ND	9.4	2.1	ND	1.7	0.38	ND	5.8	1.3	ND	1.8	0.40
2-Butanone	ND	9.4	2.4	ND	1.7	0.44	ND	5.8	1.5	ND	1.8	0.46
t-Butyl Methyl Ether (MTBE)	ND	9.4	1.9	ND	1.7	0.35	ND	5.8	1.2	ND	1.8	0.36
Chloroform	6.6 J	9.4	1.3	ND	1.7	0.24	7.8	5.8	0.81	0.47 J	1.8	0.25
1,1,1-Trichloroethane	ND	9.4	1.1	ND	1.7	0.20	3.6 J	5.8	0.66	ND	1.8	0.21
Carbon Tetrachloride	ND	9.4	1.1	ND	1.7	0.20	ND	5.8	0.67	ND	1.8	0.21
Benzene	2.0 J	9.4	1.8	0.35 J	1.7	0.34	3.9 J	5.8	1.1	0.45 J	1.8	0.35
1,2-Dichloroethane	ND	9.4	2.5	ND	1.7	0.46	1.7 J	5.8	1.5	ND	1.8	0.47
Trichloroethene	1,600	9.4	1.5	3.0	1.7	0.27	34	5.8	0.91	5.3	1.8	0.28
1,2-Dichloropropane	ND	9.4	1.2	ND	1.7	0.22	ND	5.8	0.74	ND	1.8	0.23
Bromodichloromethane	ND	9.4	1.4	ND	1.7	0.26	ND	5.8	0.88	ND	1.8	0.27
c-1,3-Dichloropropene	ND	9.4	2.1	ND	1.7	0.39	ND	5.8	1.3	ND	1.8	0.41
4-Methyl-2-Pentanone	ND	9.4	0.54	ND	1.7	0.10	ND	5.8	0.34	ND	1.8	0.10
Toluene	14	9.4	1.5	0.40 J	1.7	0.29	32	5.8	0.95	0.47 J	1.8	0.30
t-1,3-Dichloropropene	ND	9.4	2.5	ND	1.7	0.46	ND	5.8	1.5	ND	1.8	0.48
1,1,2-Trichloroethane	ND	9.4	1.9	ND	1.7	0.36	ND	5.8	1.2	ND	1.8	0.37
Tetrachloroethene	1,700	9.4	1.9	37	1.7	0.36	1,200	5.8	1.2	100	1.8	0.38
2-Hexanone	ND	9.4	1.3	ND	1.7	0.25	ND	5.8	0.83	ND	1.8	0.26
Dibromochloromethane	ND	9.4	1.6	ND	1.7	0.30	ND	5.8	1.0	ND	1.8	0.31
1,2-Dibromoethane	ND	9.4	1.2	ND	1.7	0.23	ND	5.8	0.76	ND	1.8	0.24
Chlorobenzene	ND	9.4	1.3	ND	1.7	0.25	ND	5.8	0.84	ND	1.8	0.26

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-13			C122107-14			C122107-15			C122107-16		
Client Sample I.D.:	OC_SVE_VMP-4_122011			OC_SVE_VMP-5_122011			OC_SVE_VMP-6_122011			OC_SVE_VMP-11_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/29/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111229MS3A1			111229MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	9.4			1.7			5.8			1.8		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	1.3 J	9.4	0.34	ND	1.7	0.063	1.8 J	5.8	0.21	0.54 J	1.8	0.065
p,&m-Xylene	7.0 J	9.4	2.1	ND	1.7	0.40	5.9	5.8	1.3	1.9	1.8	0.41
o-Xylene	3.5 J	9.4	1.3	ND	1.7	0.24	2.7 J	5.8	0.81	0.72 J	1.8	0.25
Isopropanol	ND	47	21	ND	8.7	4.0	ND	29	13	ND	9.0	4.1
n-Hexane	ND	47	8.1	ND	8.7	1.5	ND	29	5.0	ND	9.0	1.6
1,4-Dioxane	ND	47	11	ND	8.7	2.0	ND	29	6.6	ND	9.0	2.0
Total VOC's	5,200			50			1,400			130		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	105%	70-130%	95%	70-130%	82%	70-130%	85%	70-130%
Toluene-d8	94%	70-130%	92%	70-130%	105%	70-130%	103%	70-130%
4-Bromofluorobenzene	107%	70-130%	95%	70-130%	98%	70-130%	107%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

PAGE 01

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-17			C122107-18			C122107-19			C122107-20		
Client Sample I.D.:	OC_SVE_VMP-12_122011			OC_SVE_VMP-13_122011			OC_SVE_VMP-14_122011			OC_SVE_VMP-15_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/29/11			12/29/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111229MS2A1			111229MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.64 J	1.7	0.11	0.60 J	1.7	0.10	0.64 J	1.7	0.11	0.53 J	1.7	0.10
Chloromethane	ND	3.5	0.58	ND	3.4	0.56	ND	3.5	0.58	ND	3.4	0.56
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.7	0.22	ND	1.7	0.22	ND	1.7	0.22	ND	1.7	0.22
Vinyl Chloride	ND	1.7	0.39	ND	1.7	0.37	ND	1.7	0.39	ND	1.7	0.37
Bromomethane	ND	1.7	0.60	ND	1.7	0.58	ND	1.7	0.60	ND	1.7	0.58
Chloroethane	ND	1.7	1.3	ND	1.7	1.3	ND	1.7	1.3	ND	1.7	1.3
Trichlorofluoromethane (11)	ND	1.7	0.71	0.71 J	1.7	0.69	ND	1.7	0.71	ND	1.7	0.69
1,1-Dichloroethene	ND	1.7	0.19	0.45 J	1.7	0.18	1.2 J	1.7	0.19	2.3	1.7	0.18
Carbon Disulfide	ND	8.7	0.26	ND	8.4	0.25	1.5 J	8.7	0.26	1.9 J	8.4	0.25
1,1,2-Cl 1,2,2-F ethane (113)	ND	1.7	0.40	1.8	1.7	0.39	0.83 J	1.7	0.40	ND	1.7	0.39
Acetone	13	8.7	0.55	ND	8.4	0.53	4.4 J	8.7	0.55	7.4 J	8.4	0.53
Methylene Chloride	ND	1.7	0.34	ND	1.7	0.33	ND	1.7	0.34	ND	1.7	0.33
t-1,2-Dichloroethene	ND	1.7	0.28	ND	1.7	0.27	ND	1.7	0.28	ND	1.7	0.27
1,1-Dichloroethane	ND	1.7	0.21	ND	1.7	0.20	ND	1.7	0.21	ND	1.7	0.20
Vinyl Acetate	ND	8.7	0.30	ND	8.4	0.29	ND	8.7	0.30	ND	8.4	0.29
c-1,2-Dichloroethene	ND	1.7	0.38	ND	1.7	0.37	ND	1.7	0.38	ND	1.7	0.37
2-Butanone	ND	1.7	0.44	ND	1.7	0.43	ND	1.7	0.44	ND	1.7	0.43
t-Butyl Methyl Ether (MTBE)	ND	1.7	0.35	ND	1.7	0.33	ND	1.7	0.35	ND	1.7	0.33
Chloroform	ND	1.7	0.24	0.40 J	1.7	0.23	ND	1.7	0.24	0.41 J	1.7	0.23
1,1,1-Trichloroethane	ND	1.7	0.20	ND	1.7	0.19	ND	1.7	0.20	ND	1.7	0.19
Carbon Tetrachloride	ND	1.7	0.20	ND	1.7	0.19	ND	1.7	0.20	ND	1.7	0.19
Benzene	1.0 J	1.7	0.34	0.54 J	1.7	0.33	0.53 J	1.7	0.34	0.43 J	1.7	0.33
1,2-Dichloroethane	ND	1.7	0.46	ND	1.7	0.44	ND	1.7	0.46	ND	1.7	0.44
Trichloroethene	0.46 J	1.7	0.27	1.4 J	1.7	0.26	4.1	1.7	0.27	6.0	1.7	0.26
1,2-Dichloropropane	ND	1.7	0.22	ND	1.7	0.21	ND	1.7	0.22	ND	1.7	0.21
Bromodichloromethane	ND	1.7	0.26	ND	1.7	0.25	ND	1.7	0.26	ND	1.7	0.25
c-1,3-Dichloropropene	ND	1.7	0.39	ND	1.7	0.38	ND	1.7	0.39	ND	1.7	0.38
4-Methyl-2-Pentanone	ND	1.7	0.10	ND	1.7	0.097	ND	1.7	0.10	ND	1.7	0.097
Toluene	1.8	1.7	0.29	0.98 J	1.7	0.28	2.1	1.7	0.29	1.1 J	1.7	0.28
t-1,3-Dichloropropene	ND	1.7	0.46	ND	1.7	0.44	ND	1.7	0.46	ND	1.7	0.44
1,1,2-Trichloroethane	ND	1.7	0.36	ND	1.7	0.34	ND	1.7	0.36	ND	1.7	0.34
Tetrachloroethene	17	1.7	0.36	8.7	1.7	0.35	27	1.7	0.36	150	1.7	0.35
2-Hexanone	ND	1.7	0.25	ND	1.7	0.24	ND	1.7	0.25	ND	1.7	0.24
Dibromochloromethane	ND	1.7	0.30	ND	1.7	0.29	ND	1.7	0.30	ND	1.7	0.29
1,2-Dibromoethane	ND	1.7	0.23	ND	1.7	0.22	ND	1.7	0.23	ND	1.7	0.22
Chlorobenzene	ND	1.7	0.25	ND	1.7	0.24	ND	1.7	0.25	ND	1.7	0.24

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-17			C122107-18			C122107-19			C122107-20		
Client Sample I.D.:	OC_SVE_VMP-12_122011			OC_SVE_VMP-13_122011			OC_SVE_VMP-14_122011			OC_SVE_VMP-15_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/29/11			12/29/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111229MS2A1			111229MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	0.33 J	1.7	0.063	ND	1.7	0.061	0.95 J	1.7	0.063	0.58 J	1.7	0.061
p,&m-Xylene	1.3 J	1.7	0.40	0.49 J	1.7	0.39	5.9	1.7	0.40	2.4	1.7	0.39
o-Xylene	0.63 J	1.7	0.24	ND	1.7	0.23	1.4 J	1.7	0.24	0.76 J	1.7	0.23
Isopropanol	ND	8.7	4.0	ND	8.4	3.9	ND	8.7	4.0	ND	8.4	3.9
n-Hexane	ND	8.7	1.5	ND	8.4	1.5	ND	8.7	1.5	ND	8.4	1.5
1,4-Dioxane	ND	8.7	2.0	ND	8.4	1.9	ND	8.7	2.0	ND	8.4	1.9
Total VOC's	36			16			51			170		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	98%	70-130%	97%	70-130%	84%	70-130%	91%	70-130%
Toluene-d8	90%	70-130%	94%	70-130%	105%	70-130%	94%	70-130%
4-Bromofluorobenzene	101%	70-130%	92%	70-130%	108%	70-130%	101%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1/11/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-21			C122107-22			C122107-23			C122107-24		
Client Sample I.D.:	OC_SVE_VMP-16_122011			OC_SVE_VMP-17_122011			OC_SVE_VMP-19_122011			OC_SVE_VMP-20_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111229MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	3.4			1.9			1.7			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	ND	3.4	0.21	0.59 J	1.9	0.12	0.58 J	1.7	0.11	0.69 J	1.7	0.11
Chloromethane	ND	6.7	1.1	0.83 J	3.9	0.65	ND	3.5	0.58	ND	3.5	0.58
1,2-Cl-1,1,2,2-F ethane (114)	ND	3.4	0.43	ND	1.9	0.25	ND	1.7	0.22	ND	1.7	0.22
Vinyl Chloride	ND	3.4	0.75	ND	1.9	0.43	ND	1.7	0.39	ND	1.7	0.39
Bromomethane	ND	3.4	1.2	ND	1.9	0.67	ND	1.7	0.60	ND	1.7	0.60
Chloroethane	ND	3.4	2.5	ND	1.9	1.4	ND	1.7	1.3	ND	1.7	1.3
Trichlorofluoromethane (11)	ND	3.4	1.4	ND	1.9	0.80	4.2	1.7	0.71	4.1	1.7	0.71
1,1-Dichloroethene	ND	3.4	0.36	ND	1.9	0.21	33	1.7	0.19	14	1.7	0.19
Carbon Disulfide	ND	17	0.50	ND	9.7	0.29	ND	8.7	0.26	ND	8.7	0.26
1,1,2-Cl 1,2,2-F ethane (113)	ND	3.4	0.77	ND	1.9	0.45	4.7	1.7	0.40	22	1.7	0.40
Acetone	ND	17	1.1	12	9.7	0.61	15	8.7	0.55	13	8.7	0.55
Methylene Chloride	ND	3.4	0.66	ND	1.9	0.38	ND	1.7	0.34	ND	1.7	0.34
t-1,2-Dichloroethene	ND	3.4	0.55	ND	1.9	0.31	ND	1.7	0.28	ND	1.7	0.28
1,1-Dichloroethane	ND	3.4	0.40	ND	1.9	0.23	ND	1.7	0.21	ND	1.7	0.21
Vinyl Acetate	ND	17	0.59	ND	9.7	0.34	ND	8.7	0.30	ND	8.7	0.30
c-1,2-Dichloroethene	ND	3.4	0.74	ND	1.9	0.43	ND	1.7	0.38	ND	1.7	0.38
2-Butanone	ND	3.4	0.85	ND	1.9	0.49	ND	1.7	0.44	2.9	1.7	0.44
t-Butyl Methyl Ether (MTBE)	ND	3.4	0.67	ND	1.9	0.39	ND	1.7	0.35	ND	1.7	0.35
Chloroform	ND	3.4	0.47	ND	1.9	0.27	0.25 J	1.7	0.24	3.0	1.7	0.24
1,1,1-Trichloroethane	ND	3.4	0.38	ND	1.9	0.22	0.44 J	1.7	0.20	ND	1.7	0.20
Carbon Tetrachloride	ND	3.4	0.39	ND	1.9	0.22	ND	1.7	0.20	ND	1.7	0.20
Benzene	68	3.4	0.66	0.77 J	1.9	0.38	0.71 J	1.7	0.34	0.36 J	1.7	0.34
1,2-Dichloroethane	ND	3.4	0.88	ND	1.9	0.51	ND	1.7	0.46	ND	1.7	0.46
Trichloroethene	4.3	3.4	0.52	ND	1.9	0.30	33	1.7	0.27	14	1.7	0.27
1,2-Dichloropropane	ND	3.4	0.43	ND	1.9	0.25	ND	1.7	0.22	ND	1.7	0.22
Bromodichloromethane	1.3 J	3.4	0.51	ND	1.9	0.29	ND	1.7	0.26	0.37 J	1.7	0.26
c-1,3-Dichloropropene	ND	3.4	0.76	ND	1.9	0.44	ND	1.7	0.39	ND	1.7	0.39
4-Methyl-2-Pentanone	ND	3.4	0.19	ND	1.9	0.11	ND	1.7	0.10	ND	1.7	0.10
Toluene	520	3.4	0.55	1.8 J	1.9	0.32	0.42 J	1.7	0.29	0.38 J	1.7	0.29
t-1,3-Dichloropropene	ND	3.4	0.89	ND	1.9	0.51	ND	1.7	0.46	ND	1.7	0.46
1,1,2-Trichloroethane	ND	3.4	0.69	ND	1.9	0.40	ND	1.7	0.36	ND	1.7	0.36
Tetrachloroethene	86	3.4	0.70	1.0 J	1.9	0.40	480	1.7	0.36	140	1.7	0.36
2-Hexanone	ND	3.4	0.48	ND	1.9	0.28	ND	1.7	0.25	ND	1.7	0.25
Dibromochloromethane	ND	3.4	0.58	ND	1.9	0.33	ND	1.7	0.30	0.31 J	1.7	0.30
1,2-Dibromoethane	ND	3.4	0.44	ND	1.9	0.25	ND	1.7	0.23	ND	1.7	0.23
Chlorobenzene	ND	3.4	0.49	ND	1.9	0.28	ND	1.7	0.25	ND	1.7	0.25

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-21			C122107-22			C122107-23			C122107-24		
Client Sample I.D.:	OC_SVE_VMP-16_122011			OC_SVE_VMP-17_122011			OC_SVE_VMP-19_122011			OC_SVE_VMP-20_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111229MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	3.4			1.9			1.7			1.7		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	130	3.4	0.12	1.2 J	1.9	0.070	ND	1.7	0.063	ND	1.7	0.063
p,&m-Xylene	480	3.4	0.77	5.5	1.9	0.44	0.61 J	1.7	0.40	ND	1.7	0.40
o-Xylene	130	3.4	0.47	1.9	1.9	0.27	ND	1.7	0.24	ND	1.7	0.24
Isopropanol	ND	17	7.7	ND	9.7	4.4	ND	8.7	4.0	ND	8.7	4.0
n-Hexane	39	17	2.9	ND	9.7	1.7	ND	8.7	1.5	ND	8.7	1.5
1,4-Dioxane	ND	17	3.8	ND	9.7	2.2	ND	8.7	2.0	ND	8.7	2.0
Total VOC's	1,500			26			570			220		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	94%	70-130%	100%	70-130%	100%	70-130%	103%	70-130%
Toluene-d8	101%	70-130%	90%	70-130%	91%	70-130%	94%	70-130%
4-Bromofluorobenzene	98%	70-130%	100%	70-130%	94%	70-130%	96%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-25			C122107-26			C122107-27			C122107-28		
Client Sample I.D.:	OC_SVE_VMP-21_122011			OC_SVE_VMP-22_122011			OC_SVE_VMP-23_122011			OC_SVE_VMP-24_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			5.2			3.4		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.62 J	1.7	0.11	0.61 J	1.7	0.10	0.73 J	5.2	0.32	0.58 J	3.4	0.21
Chloromethane	ND	3.5	0.58	ND	3.4	0.56	ND	10	1.7	ND	6.7	1.1
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.7	0.22	ND	1.7	0.22	ND	5.2	0.67	ND	3.4	0.43
Vinyl Chloride	ND	1.7	0.39	ND	1.7	0.37	ND	5.2	1.2	ND	3.4	0.75
Bromomethane	ND	1.7	0.60	ND	1.7	0.58	ND	5.2	1.8	ND	3.4	1.2
Chloroethane	ND	1.7	1.3	ND	1.7	1.3	ND	5.2	3.9	ND	3.4	2.5
Trichlorofluoromethane (11)	ND	1.7	0.71	ND	1.7	0.69	ND	5.2	2.1	ND	3.4	1.4
1,1-Dichloroethene	2.3	1.7	0.19	1.9	1.7	0.18	41	5.2	0.56	11	3.4	0.36
Carbon Disulfide	2.7 J	8.7	0.26	ND	8.4	0.25	ND	26	0.78	3.6 J	17	0.50
1,1,2-Cl 1,2,2-F ethane (113)	0.65 J	1.7	0.40	0.77 J	1.7	0.39	3.3 J	5.2	1.2	1.3 J	3.4	0.77
Acetone	12	8.7	0.55	16	8.4	0.53	23 J	26	1.6	16 J	17	1.1
Methylene Chloride	ND	1.7	0.34	1.4 J	1.7	0.33	ND	5.2	1.0	ND	3.4	0.66
t-1,2-Dichloroethene	ND	1.7	0.28	0.60 J	1.7	0.27	ND	5.2	0.85	ND	3.4	0.55
1,1-Dichloroethane	ND	1.7	0.21	ND	1.7	0.20	ND	5.2	0.62	ND	3.4	0.40
Vinyl Acetate	ND	8.7	0.30	ND	8.4	0.29	ND	26	0.91	ND	17	0.59
c-1,2-Dichloroethene	ND	1.7	0.38	ND	1.7	0.37	ND	5.2	1.1	ND	3.4	0.74
2-Butanone	ND	1.7	0.44	2.6	1.7	0.43	ND	5.2	1.3	ND	3.4	0.85
t-Butyl Methyl Ether (MTBE)	ND	1.7	0.35	ND	1.7	0.33	8.7	5.2	1.0	5.7	3.4	0.67
Chloroform	ND	1.7	0.24	0.84 J	1.7	0.23	5.2	5.2	0.73	0.65 J	3.4	0.47
1,1,1-Trichloroethane	ND	1.7	0.20	0.40 J	1.7	0.19	ND	5.2	0.60	ND	3.4	0.38
Carbon Tetrachloride	ND	1.7	0.20	ND	1.7	0.19	ND	5.2	0.60	ND	3.4	0.39
Benzene	0.39 J	1.7	0.34	ND	1.7	0.33	2.3 J	5.2	1.0	1.7 J	3.4	0.66
1,2-Dichloroethane	ND	1.7	0.46	ND	1.7	0.44	ND	5.2	1.4	ND	3.4	0.88
Trichloroethene	14	1.7	0.27	11	1.7	0.26	22	5.2	0.81	15	3.4	0.52
1,2-Dichloropropane	ND	1.7	0.22	ND	1.7	0.21	ND	5.2	0.66	ND	3.4	0.43
Bromodichloromethane	ND	1.7	0.26	ND	1.7	0.25	ND	5.2	0.78	ND	3.4	0.51
c-1,3-Dichloropropene	ND	1.7	0.39	ND	1.7	0.38	ND	5.2	1.2	ND	3.4	0.76
4-Methyl-2-Pentanone	ND	1.7	0.10	ND	1.7	0.097	ND	5.2	0.30	3.5	3.4	0.19
Toluene	0.43 J	1.7	0.29	0.43 J	1.7	0.28	21	5.2	0.86	11	3.4	0.55
t-1,3-Dichloropropene	ND	1.7	0.46	ND	1.7	0.44	ND	5.2	1.4	ND	3.4	0.89
1,1,2-Trichloroethane	ND	1.7	0.36	0.65 J	1.7	0.34	ND	5.2	1.1	ND	3.4	0.69
Tetrachloroethene	99	1.7	0.36	150	1.7	0.35	1,100	5.2	1.1	570	3.4	0.70
2-Hexanone	ND	1.7	0.25	ND	1.7	0.24	ND	5.2	0.74	ND	3.4	0.48
Dibromochloromethane	ND	1.7	0.30	ND	1.7	0.29	ND	5.2	0.90	ND	3.4	0.58
1,2-Dibromoethane	ND	1.7	0.23	ND	1.7	0.22	ND	5.2	0.69	ND	3.4	0.44
Chlorobenzene	ND	1.7	0.25	ND	1.7	0.24	ND	5.2	0.75	ND	3.4	0.49

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-25			C122107-26			C122107-27			C122107-28		
Client Sample I.D.:	OC_SVE_VMP-21_122011			OC_SVE_VMP-22_122011			OC_SVE_VMP-23_122011			OC_SVE_VMP-24_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			5.2			3.4		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	1.7	0.063	ND	1.7	0.061	5.2	5.2	0.19	2.8 J	3.4	0.12
p,&m-Xylene	ND	1.7	0.40	ND	1.7	0.39	27	5.2	1.2	14	3.4	0.77
o-Xylene	ND	1.7	0.24	ND	1.7	0.23	8.0	5.2	0.72	4.2	3.4	0.47
Isopropanol	ND	8.7	4.0	ND	8.4	3.9	ND	26	12	ND	17	7.7
n-Hexane	ND	8.7	1.5	ND	8.4	1.5	ND	26	4.5	ND	17	2.9
1,4-Dioxane	2.6 J	8.7	2.0	ND	8.4	1.9	ND	26	5.9	ND	17	3.8
Total VOC's	130			190			1,300			660		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	104%	70-130%	101%	70-130%	99%	70-130%	96%	70-130%
Toluene-d8	91%	70-130%	89%	70-130%	92%	70-130%	94%	70-130%
4-Bromofluorobenzene	100%	70-130%	97%	70-130%	106%	70-130%	101%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

PAGE 020

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-29			C122107-30			C122107-31			C122107-32		
Client Sample I.D.:	OC_SVE_VMP-25_122011			OC_SVE_VMP-26_122011			OC_SVE_VMP-27_122011			OC_SVE_VE-1M_122011K		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			1.7			1.7			5.6		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.62 J	1.9	0.11	0.61 J	1.7	0.11	0.72 J	1.7	0.10	0.98 J	5.6	0.34
Chloromethane	ND	3.7	0.62	1.5 J	3.5	0.58	ND	3.4	0.56	ND	11	1.9
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.9	0.24	ND	1.7	0.22	ND	1.7	0.22	ND	5.6	0.72
Vinyl Chloride	ND	1.9	0.41	ND	1.7	0.39	ND	1.7	0.37	ND	5.6	1.2
Bromomethane	ND	1.9	0.65	ND	1.7	0.60	ND	1.7	0.58	ND	5.6	1.9
Chloroethane	ND	1.9	1.4	ND	1.7	1.3	ND	1.7	1.3	ND	5.6	4.2
Trichlorofluoromethane (11)	ND	1.9	0.77	ND	1.7	0.71	ND	1.7	0.69	67	5.6	2.3
1,1-Dichloroethene	3.0	1.9	0.20	1.2 J	1.7	0.19	ND	1.7	0.18	770	5.6	0.61
Carbon Disulfide	ND	9.4	0.28	0.66 J	8.7	0.26	1.6 J	8.4	0.25	ND	28	0.83
1,1,2-Cl 1,2,2-F ethane (113)	0.87 J	1.9	0.43	ND	1.7	0.40	ND	1.7	0.39	100	5.6	1.3
Acetone	12	9.4	0.59	51	8.7	0.55	8.2 J	8.4	0.53	23 J	28	1.8
Methylene Chloride	ND	1.9	0.37	ND	1.7	0.34	ND	1.7	0.33	ND	5.6	1.1
t-1,2-Dichloroethene	ND	1.9	0.30	ND	1.7	0.28	ND	1.7	0.27	ND	5.6	0.91
1,1-Dichloroethane	ND	1.9	0.22	ND	1.7	0.21	ND	1.7	0.20	0.90 J	5.6	0.67
Vinyl Acetate	ND	9.4	0.33	ND	8.7	0.30	ND	8.4	0.29	ND	28	0.98
c-1,2-Dichloroethene	ND	1.9	0.41	ND	1.7	0.38	ND	1.7	0.37	ND	5.6	1.2
2-Butanone	2.1	1.9	0.47	1.4 J	1.7	0.44	ND	1.7	0.43	ND	5.6	1.4
t-Butyl Methyl Ether (MTBE)	ND	1.9	0.37	ND	1.7	0.35	ND	1.7	0.33	ND	5.6	1.1
Chloroform	ND	1.9	0.26	ND	1.7	0.24	ND	1.7	0.23	6.9	5.6	0.78
1,1,1-Trichloroethane	ND	1.9	0.21	ND	1.7	0.20	ND	1.7	0.19	2.2 J	5.6	0.64
Carbon Tetrachloride	ND	1.9	0.21	ND	1.7	0.20	ND	1.7	0.19	ND	5.6	0.64
Benzene	ND	1.9	0.37	0.38 J	1.7	0.34	ND	1.7	0.33	1.2 J	5.6	1.1
1,2-Dichloroethane	ND	1.9	0.49	ND	1.7	0.46	ND	1.7	0.44	1.8 J	5.6	1.5
Trichloroethene	1.7 J	1.9	0.29	3.8	1.7	0.27	ND	1.7	0.26	78	5.6	0.87
1,2-Dichloropropane	ND	1.9	0.24	ND	1.7	0.22	ND	1.7	0.21	ND	5.6	0.71
Bromodichloromethane	ND	1.9	0.28	ND	1.7	0.26	ND	1.7	0.25	ND	5.6	0.84
c-1,3-Dichloropropene	ND	1.9	0.42	ND	1.7	0.39	ND	1.7	0.38	ND	5.6	1.3
4-Methyl-2-Pentanone	ND	1.9	0.11	ND	1.7	0.10	ND	1.7	0.097	ND	5.6	0.32
Toluene	0.43 J	1.9	0.31	0.38 J	1.7	0.29	ND	1.7	0.28	8.2	5.6	0.92
t-1,3-Dichloropropene	ND	1.9	0.49	ND	1.7	0.46	ND	1.7	0.44	ND	5.6	1.5
1,1,2-Trichloroethane	ND	1.9	0.38	ND	1.7	0.36	ND	1.7	0.34	ND	5.6	1.2
Tetrachloroethene	100	1.9	0.39	12	1.7	0.36	ND	1.7	0.35	940	5.6	1.2
2-Hexanone	ND	1.9	0.27	ND	1.7	0.25	ND	1.7	0.24	ND	5.6	0.80
Dibromochloromethane	ND	1.9	0.32	ND	1.7	0.30	ND	1.7	0.29	ND	5.6	0.97
1,2-Dibromoethane	ND	1.9	0.25	ND	1.7	0.23	ND	1.7	0.22	ND	5.6	0.74
Chlorobenzene	ND	1.9	0.27	ND	1.7	0.25	ND	1.7	0.24	ND	5.6	0.81

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-29			C122107-30			C122107-31			C122107-32		
Client Sample I.D.:	OC_SVE_VMP-25_122011			OC_SVE_VMP-26_122011			OC_SVE_VMP-27_122011			OC_SVE_VE-1M_122011K		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			1.7			1.7			5.6		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	ND	1.9	0.068	ND	1.7	0.063	ND	1.7	0.061	2.9 J	5.6	0.20
p,&m-Xylene	ND	1.9	0.43	ND	1.7	0.40	ND	1.7	0.39	13	5.6	1.3
o-Xylene	ND	1.9	0.26	ND	1.7	0.24	ND	1.7	0.23	4.3 J	5.6	0.78
Isopropanol	ND	9.4	4.3	ND	8.7	4.0	ND	8.4	3.9	ND	28	13
n-Hexane	ND	9.4	1.6	ND	8.7	1.5	ND	8.4	1.5	ND	28	4.8
1,4-Dioxane	ND	9.4	2.1	ND	8.7	2.0	ND	8.4	1.9	9.7 J	28	6.3
Total VOC's	120			73			11			2,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	106%	70-130%	102%	70-130%	113%	70-130%	100%	70-130%
Toluene-d8	92%	70-130%	83%	70-130%	89%	70-130%	94%	70-130%
4-Bromofluorobenzene	98%	70-130%	90%	70-130%	99%	70-130%	102%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 1/4/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

PAGE 002

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-33			C122107-34		
Client Sample I.D.:	OC_SVE_VE-5M_122011K			OC_SVE_VMP-6_122011K		
Date Sampled:	12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	1.9			30		
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**
Dichlorodifluoromethane (12)	0.55 J	1.9	0.11	ND	30	1.8
Chloromethane	ND	3.7	0.62	ND	60	9.9
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.9	0.24	ND	30	3.9
Vinyl Chloride	ND	1.9	0.41	ND	30	6.6
Bromomethane	ND	1.9	0.65	ND	30	10
Chloroethane	ND	1.9	1.4	ND	30	22
Trichlorofluoromethane (11)	ND	1.9	0.77	52	30	12
1,1-Dichloroethene	ND	1.9	0.20	350	30	3.2
Carbon Disulfide	ND	9.4	0.28	ND	150	4.4
1,1,2-Cl 1,2,2-F ethane (113)	ND	1.9	0.43	1,100	30	6.9
Acetone	23	9.4	0.59	70 J	150	9.4
Methylene Chloride	ND	1.9	0.37	ND	30	5.8
t-1,2-Dichloroethene	ND	1.9	0.30	ND	30	4.8
1,1-Dichloroethane	ND	1.9	0.22	10 J	30	3.5
Vinyl Acetate	ND	9.4	0.33	ND	150	5.2
c-1,2-Dichloroethene	ND	1.9	0.41	ND	30	6.6
2-Butanone	ND	1.9	0.47	ND	30	7.6
t-Butyl Methyl Ether (MTBE)	ND	1.9	0.37	ND	30	5.9
Chloroform	ND	1.9	0.26	12 J	30	4.1
1,1,1-Trichloroethane	ND	1.9	0.21	110	30	3.4
Carbon Tetrachloride	ND	1.9	0.21	ND	30	3.4
Benzene	0.70 J	1.9	0.37	ND	30	5.9
1,2-Dichloroethane	ND	1.9	0.49	ND	30	7.8
Trichloroethene	ND	1.9	0.29	420	30	4.6
1,2-Dichloropropane	ND	1.9	0.24	ND	30	3.8
Bromodichloromethane	ND	1.9	0.28	ND	30	4.5
c-1,3-Dichloropropene	ND	1.9	0.42	ND	30	6.7
4-Methyl-2-Pentanone	ND	1.9	0.11	ND	30	1.7
Toluene	1.2 J	1.9	0.31	17 J	30	4.9
t-1,3-Dichloropropene	ND	1.9	0.49	ND	30	7.9
1,1,2-Trichloroethane	ND	1.9	0.38	ND	30	6.1
Tetrachloroethene	ND	1.9	0.39	6,600	30	6.2
2-Hexanone	ND	1.9	0.27	ND	30	4.3
Dibromochloromethane	ND	1.9	0.32	ND	30	5.1
1,2-Dibromoethane	ND	1.9	0.25	ND	30	3.9
Chlorobenzene	ND	1.9	0.27	ND	30	4.3

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C122107-33			C122107-34								
Client Sample I.D.:	OC_SVE_VE-5M_122011K			OC_SVE_VMP-6_122011K								
Date Sampled:	12/20/11			12/20/11								
Date Analyzed:	12/30/11			12/30/11								
QC Batch No.:	111230MS2A1			111230MS2A1								
Analyst Initials:	DT			DT								
Dilution Factor:	1.9			30								
ANALYTE	**Result ppbv**	**RL ppbv**	**MDL ppbv**	**Result ppbv**	**RL ppbv**	**MDL ppbv**						
Ethylbenzene	ND	1.9	0.068	ND	30	1.1						
p,&m-Xylene	0.74 J	1.9	0.43	7.5 J	30	6.8						
o-Xylene	0.35 J	1.9	0.26	ND	30	4.1						
Isopropanol	ND	9.4	4.3	ND	150	68						
n-Hexane	ND	9.4	1.6	ND	150	26						
1,4-Dioxane	ND	9.4	2.1	ND	150	34						
Total VOC's	27			8,700								

Surrogate	Result	QC Criteria	Result	QC Criteria				
1,2-Dichloroethane-d4	112%	70-130%	97%	70-130%				
Toluene-d8	85%	70-130%	94%	70-130%				
4-Bromofluorobenzene	102%	70-130%	103%	70-130%				

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ for
Mark Johnson
Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-01			C122107-02			C122107-03			C122107-04		
Client Sample I.D.:	OC_SVE_VE-1M_122011			OC_SVE_VE-2S_122011			OC_SVE_VE-2M_122011			OC_SVE_VE-3S_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/29/11			12/29/11			12/29/11		
QC Batch No.:	111230MS2A1			111229MS3A1			111229MS3A1			111229MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	4.7			1.8			1.9			1.8		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	4.7 J	23	1.4	5.0 J	8.9	0.54	4.7 J	9.6	0.59	4.2 J	8.9	0.54
Chloromethane	ND	19	3.2	ND	7.5	1.2	2.5 J	8.0	1.3	1.9 J	7.5	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	33	4.2	ND	13	1.6	ND	14	1.8	ND	13	1.6
Vinyl Chloride	ND	12	2.6	ND	4.6	1.0	ND	5.0	1.1	ND	4.6	1.0
Bromomethane	ND	18	6.3	ND	7.0	2.4	ND	7.5	2.6	ND	7.0	2.4
Chloroethane	ND	12	9.2	ND	4.8	3.5	ND	5.1	3.8	ND	4.8	3.5
Trichlorofluoromethane (11)	360	26	11	ND	10	4.2	ND	11	4.5	ND	10	4.2
1,1-Dichloroethene	2,900	19	2.0	3.3 J	7.2	0.77	4.5 J	7.7	0.83	2.2 J	7.2	0.77
Carbon Disulfide	ND	73	2.2	3.5 J	28	0.83	3.0 J	30	0.90	3.3 J	28	0.83
1,1,2-Cl 1,2,2-F ethane (113)	770	36	8.2	ND	14	3.2	ND	15	3.4	ND	14	3.2
Acetone	28 J	56	3.5	62	21	1.3	37	23	1.4	30	21	1.3
Methylene Chloride	ND	16	3.2	ND	6.3	1.2	ND	6.8	1.3	ND	6.3	1.2
t-1,2-Dichloroethene	ND	19	3.0	ND	7.2	1.2	ND	7.7	1.2	ND	7.2	1.2
1,1-Dichloroethane	ND	19	2.2	ND	7.3	0.87	ND	7.9	0.93	ND	7.3	0.87
Vinyl Acetate	ND	82	2.9	ND	32	1.1	ND	34	1.2	ND	32	1.1
c-1,2-Dichloroethene	ND	19	4.1	ND	7.2	1.6	ND	7.7	1.7	ND	7.2	1.6
2-Butanone	ND	14	3.5	ND	5.3	1.3	ND	5.7	1.5	ND	5.3	1.3
t-Butyl Methyl Ether (MTBE)	ND	17	3.3	ND	6.5	1.3	ND	7.0	1.4	ND	6.5	1.3
Chloroform	33	23	3.2	ND	8.8	1.2	ND	9.5	1.3	ND	8.8	1.2
1,1,1-Trichloroethane	12 J	26	2.9	ND	9.8	1.1	ND	11	1.2	ND	9.8	1.1
Carbon Tetrachloride	ND	29	3.4	ND	11	1.3	ND	12	1.4	ND	11	1.3
Benzene	3.4 J	15	2.9	2.0 J	5.8	1.1	2.4 J	6.2	1.2	2.2 J	5.8	1.1
1,2-Dichloroethane	ND	19	5.0	ND	7.3	1.9	ND	7.9	2.1	ND	7.3	1.9
Trichloroethene	390	25	3.9	3.1 J	9.7	1.5	6.1 J	10	1.6	5.6 J	9.7	1.5
1,2-Dichloropropane	ND	22	2.7	ND	8.3	1.1	ND	9.0	1.1	ND	8.3	1.1
Bromodichloromethane	ND	31	4.7	ND	12	1.8	ND	13	2.0	ND	12	1.8
c-1,3-Dichloropropene	ND	21	4.8	ND	8.2	1.8	ND	8.8	2.0	ND	8.2	1.8
4-Methyl-2-Pentanone	12 J	19	1.1	ND	7.4	0.43	ND	8.0	0.46	ND	7.4	0.43
Toluene	20	18	2.9	3.7 J	6.8	1.1	7.1 J	7.3	1.2	6.9	6.8	1.1
t-1,3-Dichloropropene	ND	21	5.6	ND	8.2	2.2	ND	8.8	2.3	ND	8.2	2.2
1,1,2-Trichloroethane	ND	26	5.2	ND	9.8	2.0	ND	11	2.2	ND	9.8	2.0
Tetrachloroethene	5,300	32	6.6	47	12	2.5	160	13	2.7	65	12	2.5
2-Hexanone	ND	19	2.7	ND	7.4	1.1	ND	8.0	1.1	ND	7.4	1.1
Dibromochloromethane	ND	40	6.9	ND	15	2.6	ND	17	2.8	ND	15	2.6
1,2-Dibromoethane	ND	36	4.7	ND	14	1.8	ND	15	2.0	ND	14	1.8
Chlorobenzene	ND	22	3.1	ND	8.3	1.2	ND	8.9	1.3	ND	8.3	1.2

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-01			C122107-02			C122107-03			C122107-04		
Client Sample I.D.:	OC_SVE_VE-1M_122011			OC_SVE_VE-2S_122011			OC_SVE_VE-2M_122011			OC_SVE_VE-3S_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/29/11			12/29/11			12/29/11		
QC Batch No.:	111230MS2A1			111229MS3A1			111229MS3A1			111229MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	4.7			1.8			1.9			1.8		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	6.9 J	20	0.73	ND	7.8	0.28	1.0 J	8.4	0.30	ND	7.8	0.28
p,&m-Xylene	31	20	4.7	2.9 J	7.8	1.8	4.0 J	8.4	1.9	3.3 J	7.8	1.8
o-Xylene	11 J	20	2.8	1.3 J	7.8	1.1	1.7 J	8.4	1.2	1.2 J	7.8	1.1
Isopropanol	ND	58	26	10 J	22	10	ND	24	11	ND	22	10
n-Hexane	ND	82	14	ND	32	5.5	ND	34	5.9	ND	32	5.5
1,4-Dioxane	29 J	84	19	ND	33	7.3	ND	35	7.9	ND	33	7.3
Total VOC's	9,900			140			230			130		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	92%	70-130%	84%	70-130%	83%	70-130%	84%	70-130%
Toluene-d8	99%	70-130%	97%	70-130%	99%	70-130%	103%	70-130%
4-Bromofluorobenzene	97%	70-130%	114%	70-130%	108%	70-130%	107%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-05			C122107-06			C122107-07			C122107-08		
Client Sample I.D.:	OC_SVE_VE-3M_122011			OC_SVE_VE-4S_122011			OC_SVE_VE-4M_122011			OC_SVE_VE-5M_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/29/11			12/29/11			12/29/11			12/30/11		
QC Batch No.:	111229MS3A1			111229MS3A1			111229MS3A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.8			1.8			1.9			2.5		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	5.2 J	8.9	0.54	5.0 J	8.9	0.54	5.2 J	9.3	0.56	3.0 J	12	0.75
Chloromethane	1.3 J	7.5	1.2	ND	7.5	1.2	ND	7.7	1.3	ND	10	1.7
1,2-Cl-1,1,2,2-F ethane (114)	ND	13	1.6	ND	13	1.6	ND	13	1.7	ND	17	2.2
Vinyl Chloride	ND	4.6	1.0	ND	4.6	1.0	ND	4.8	1.1	ND	6.4	1.4
Bromomethane	ND	7.0	2.4	ND	7.0	2.4	ND	7.3	2.5	ND	9.7	3.3
Chloroethane	ND	4.8	3.5	ND	4.8	3.5	ND	4.9	3.7	ND	6.6	4.9
Trichlorofluoromethane (11)	ND	10	4.2	4.3 J	10	4.2	ND	11	4.3	ND	14	5.7
1,1-Dichloroethene	6.6 J	7.2	0.77	6.2 J	7.2	0.77	8.3	7.4	0.80	7.8 J	9.9	1.1
Carbon Disulfide	3.4 J	28	0.83	3.5 J	28	0.83	3.4 J	29	0.86	ND	39	1.2
1,1,2-Cl 1,2,2-F ethane (113)	ND	14	3.2	72	14	3.2	3.7 J	14	3.3	ND	19	4.4
Acetone	74	21	1.3	44	21	1.3	62	22	1.4	48	30	1.9
Methylene Chloride	ND	6.3	1.2	ND	6.3	1.2	ND	6.5	1.3	25	8.6	1.7
t-1,2-Dichloroethene	ND	7.2	1.2	ND	7.2	1.2	1.6 J	7.4	1.2	ND	9.9	1.6
1,1-Dichloroethane	ND	7.3	0.87	ND	7.3	0.87	ND	7.6	0.90	ND	10	1.2
Vinyl Acetate	ND	32	1.1	ND	32	1.1	ND	33	1.1	ND	44	1.5
c-1,2-Dichloroethene	ND	7.2	1.6	ND	7.2	1.6	ND	7.4	1.6	ND	9.9	2.2
2-Butanone	ND	5.3	1.3	ND	5.3	1.3	18	5.5	1.4	ND	7.3	1.9
t-Butyl Methyl Ether (MTBE)	ND	6.5	1.3	ND	6.5	1.3	ND	6.7	1.3	ND	9.0	1.8
Chloroform	ND	8.8	1.2	1.5 J	8.8	1.2	2.0 J	9.1	1.3	16	12	1.7
1,1,1-Trichloroethane	ND	9.8	1.1	1.9 J	9.8	1.1	ND	10	1.2	4.5 J	14	1.5
Carbon Tetrachloride	ND	11	1.3	ND	11	1.3	ND	12	1.4	ND	16	1.8
Benzene	2.2 J	5.8	1.1	1.8 J	5.8	1.1	3.4 J	6.0	1.2	2.1 J	8.0	1.6
1,2-Dichloroethane	ND	7.3	1.9	ND	7.3	1.9	ND	7.6	2.0	24	10	2.6
Trichloroethene	33	9.7	1.5	7.2 J	9.7	1.5	14	10	1.6	13	13	2.1
1,2-Dichloropropane	ND	8.3	1.1	ND	8.3	1.1	ND	8.7	1.1	ND	12	1.5
Bromodichloromethane	ND	12	1.8	ND	12	1.8	ND	13	1.9	ND	17	2.5
c-1,3-Dichloropropene	ND	8.2	1.8	ND	8.2	1.8	ND	8.5	1.9	ND	11	2.5
4-Methyl-2-Pentanone	ND	7.4	0.43	ND	7.4	0.43	ND	7.7	0.44	ND	10	0.59
Toluene	4.3 J	6.8	1.1	5.3 J	6.8	1.1	6.1 J	7.1	1.2	4.2 J	9.4	1.5
t-1,3-Dichloropropene	ND	8.2	2.2	ND	8.2	2.2	ND	8.5	2.2	ND	11	3.0
1,1,2-Trichloroethane	ND	9.8	2.0	ND	9.8	2.0	ND	10	2.1	ND	14	2.8
Tetrachloroethene	410	12	2.5	220	12	2.5	290	13	2.6	3,500	17	3.5
2-Hexanone	ND	7.4	1.1	ND	7.4	1.1	ND	7.7	1.1	ND	10	1.5
Dibromochloromethane	ND	15	2.6	ND	15	2.6	ND	16	2.7	ND	21	3.7
1,2-Dibromoethane	ND	14	1.8	ND	14	1.8	ND	14	1.9	ND	19	2.5
Chlorobenzene	ND	8.3	1.2	ND	8.3	1.2	ND	8.6	1.2	ND	11	1.7

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832
PAGE 027

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-05			C122107-06			C122107-07			C122107-08		
Client Sample I.D.:	OC_SVE_VE-3M_122011			OC_SVE_VE-4S_122011			OC_SVE_VE-4M_122011			OC_SVE_VE-5M_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/29/11			12/29/11			12/29/11			12/30/11		
QC Batch No.:	111229MS3A1			111229MS3A1			111229MS3A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.8			1.8			1.9			2.5		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	7.8	0.28	ND	7.8	0.28	0.67 J	8.1	0.29	ND	11	0.39
p,&m-Xylene	2.4 J	7.8	1.8	2.8 J	7.8	1.8	3.2 J	8.1	1.9	4.0 J	11	2.5
o-Xylene	ND	7.8	1.1	ND	7.8	1.1	1.3 J	8.1	1.1	2.0 J	11	1.5
Isopropanol	ND	22	10	ND	22	10	ND	23	11	ND	31	14
n-Hexane	ND	32	5.5	ND	32	5.5	ND	33	5.7	ND	44	7.6
1,4-Dioxane	ND	33	7.3	680	33	7.3	ND	34	7.6	ND	45	10
Total VOC's	540			1,100			420			3,700		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	85%	70-130%	84%	70-130%	84%	70-130%	100%	70-130%
Toluene-d8	96%	70-130%	98%	70-130%	100%	70-130%	91%	70-130%
4-Bromofluorobenzene	102%	70-130%	107%	70-130%	106%	70-130%	98%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exeeeds QC Criteria

Reviewed/Approved By: _____ Date 1/11/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

PAGE 025

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-09			C122107-10			C122107-11			C122107-12		
Client Sample I.D.:	OC_SVE_VE-7S_122011			OC_SVE_VMP-1_122011			OC_SVE_VMP-2_122011			OC_SVE_VMP-3_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/29/11			12/29/11			12/30/11			12/30/11		
QC Batch No.:	111229MS3A1			111229MS3A1			111229MS3A1			111229MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.8			1.9		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	4.3 J	8.6	0.52	9.2	8.6	0.52	4.6 J	9.1	0.55	5.6 J	9.3	0.56
Chloromethane	1.5 J	7.2	1.2	3.6 J	7.2	1.2	3.2 J	7.6	1.3	3.0 J	7.7	1.3
1,2-Cl-1,1,2,2-F ethane (114)	ND	12	1.6	ND	12	1.6	ND	13	1.7	ND	13	1.7
Vinyl Chloride	ND	4.5	0.99	ND	4.5	0.99	ND	4.7	1.0	ND	4.8	1.1
Bromomethane	ND	6.8	2.3	ND	6.8	2.3	ND	7.1	2.5	ND	7.3	2.5
Chloroethane	ND	4.6	3.4	ND	4.6	3.4	ND	4.8	3.6	ND	4.9	3.7
Trichlorofluoromethane (11)	ND	9.8	4.0	5.1 J	9.8	4.0	ND	10	4.2	ND	11	4.3
1,1-Dichloroethene	10	6.9	0.75	0.80 J	6.9	0.75	ND	7.3	0.79	ND	7.4	0.80
Carbon Disulfide	3.9 J	27	0.81	1.7 J	27	0.81	1.9 J	29	0.85	3.8 J	29	0.86
1,1,2-Cl 1,2,2-F ethane (113)	3.3 J	13	3.1	ND	13	3.1	ND	14	3.2	3.4 J	14	3.3
Acetone	46	21	1.3	71	21	1.3	64	22	1.4	41	22	1.4
Methylene Chloride	2.3 J	6.1	1.2	4.8 J	6.1	1.2	2.0 J	6.4	1.2	ND	6.5	1.3
t-1,2-Dichloroethene	1.7 J	6.9	1.1	ND	6.9	1.1	ND	7.3	1.2	ND	7.4	1.2
1,1-Dichloroethane	ND	7.1	0.84	ND	7.1	0.84	ND	7.4	0.88	ND	7.6	0.90
Vinyl Acetate	ND	31	1.1	ND	31	1.1	ND	32	1.1	ND	33	1.1
c-1,2-Dichloroethene	ND	6.9	1.5	ND	6.9	1.5	ND	7.3	1.6	ND	7.4	1.6
2-Butanone	ND	5.1	1.3	6.5	5.1	1.3	12	5.4	1.4	ND	5.5	1.4
t-Butyl Methyl Ether (MTBE)	ND	6.3	1.2	ND	6.3	1.2	ND	6.6	1.3	ND	6.7	1.3
Chloroform	ND	8.5	1.2	1.3 J	8.5	1.2	ND	9.0	1.2	ND	9.1	1.3
1,1,1-Trichloroethane	2.8 J	9.5	1.1	ND	9.5	1.1	ND	10	1.1	ND	10	1.2
Carbon Tetrachloride	ND	11	1.3	ND	11	1.3	ND	12	1.3	ND	12	1.4
Benzene	2.5 J	5.6	1.1	8.0	5.6	1.1	3.4 J	5.9	1.2	3.3 J	6.0	1.2
1,2-Dichloroethane	ND	7.1	1.9	ND	7.1	1.9	ND	7.4	2.0	ND	7.6	2.0
Trichloroethene	29	9.4	1.5	ND	9.4	1.5	ND	9.9	1.5	6.9 J	10	1.6
1,2-Dichloropropane	ND	8.1	1.0	ND	8.1	1.0	ND	8.5	1.1	ND	8.7	1.1
Bromodichloromethane	ND	12	1.8	ND	12	1.8	ND	12	1.8	ND	13	1.9
c-1,3-Dichloropropene	ND	7.9	1.8	ND	7.9	1.8	ND	8.3	1.9	ND	8.5	1.9
4-Methyl-2-Pentanone	ND	7.1	0.41	ND	7.1	0.41	ND	7.5	0.43	ND	7.7	0.44
Toluene	8.0	6.6	1.1	44	6.6	1.1	11	6.9	1.1	8.8	7.1	1.2
t-1,3-Dichloropropene	ND	7.9	2.1	ND	7.9	2.1	ND	8.3	2.2	ND	8.5	2.2
1,1,2-Trichloroethane	ND	9.5	1.9	ND	9.5	1.9	ND	10	2.1	ND	10	2.1
Tetrachloroethene	570	12	2.5	49	12	2.5	8.5 J	12	2.6	410	13	2.6
2-Hexanone	ND	7.1	1.0	ND	7.1	1.0	ND	7.5	1.1	ND	7.7	1.1
Dibromochloromethane	ND	15	2.6	ND	15	2.6	ND	16	2.7	ND	16	2.7
1,2-Dibromoethane	ND	13	1.8	ND	13	1.8	ND	14	1.9	ND	14	1.9
Chlorobenzene	ND	8.0	1.2	ND	8.0	1.2	ND	8.5	1.2	ND	8.6	1.2

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-09			C122107-10			C122107-11			C122107-12		
Client Sample I.D.:	OC_SVE_VE-7S_122011			OC_SVE_VMP-1_122011			OC_SVE_VMP-2_122011			OC_SVE_VMP-3_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/29/11			12/29/11			12/30/11			12/30/11		
QC Batch No.:	111229MS3A1			111229MS3A1			111229MS3A1			111229MS3A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.8			1.9		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	1.4 J	7.6	0.27	3.5 J	7.6	0.27	1.3 J	8.0	0.29	ND	8.1	0.29
p,&m-Xylene	6.0 J	7.6	1.7	13	7.6	1.7	5.1 J	8.0	1.8	3.9 J	8.1	1.9
o-Xylene	2.1 J	7.6	1.0	4.2 J	7.6	1.0	2.1 J	8.0	1.1	1.7 J	8.1	1.1
Isopropanol	ND	21	9.8	22	21	9.8	ND	23	10	ND	23	11
n-Hexane	ND	31	5.3	5.8 J	31	5.3	ND	32	5.6	ND	33	5.7
1,4-Dioxane	ND	31	7.1	ND	31	7.1	ND	33	7.4	ND	34	7.6
Total VOC's	690			250			120			490		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	85%	70-130%	83%	70-130%	85%	70-130%	85%	70-130%
Toluene-d8	102%	70-130%	93%	70-130%	98%	70-130%	99%	70-130%
4-Bromofluorobenzene	104%	70-130%	104%	70-130%	107%	70-130%	104%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ for
Mark Johnson
Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-13			C122107-14			C122107-15			C122107-16		
Client Sample I.D.:	OC_SVE_VMP-4_122011			OC_SVE_VMP-5_122011			OC_SVE_VMP-6_122011			OC_SVE_VMP-11_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/29/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111229MS3A1			111229MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	9.4			1.7			5.8			1.8		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	ND	46	2.8	1.9 J	8.6	0.52	10.0 J	29	1.8	3.0 J	8.9	0.54
Chloromethane	ND	39	6.4	ND	7.2	1.2	6.9 J	24	4.0	ND	7.5	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	65	8.4	ND	12	1.6	ND	41	5.3	ND	13	1.6
Vinyl Chloride	ND	24	5.3	ND	4.5	0.99	ND	15	3.3	ND	4.6	1.0
Bromomethane	ND	36	13	ND	6.8	2.3	ND	23	7.8	ND	7.0	2.4
Chloroethane	ND	25	18	ND	4.6	3.4	ND	15	11	ND	4.8	3.5
Trichlorofluoromethane (11)	970	53	22	ND	9.8	4.0	ND	33	13	ND	10	4.2
1,1-Dichloroethene	5,200	37	4.0	4.7 J	6.9	0.75	46	23	2.5	19	7.2	0.77
Carbon Disulfide	ND	150	4.3	ND	27	0.81	17 J	91	2.7	ND	28	0.83
1,1,2-Cl 1,2,2-F ethane (113)	2,900	72	16	ND	13	3.1	140	45	10	ND	14	3.2
Acetone	100 J	110	7.0	16 J	21	1.3	220	69	4.3	24	21	1.3
Methylene Chloride	ND	33	6.4	ND	6.1	1.2	8.2 J	20	4.0	1.6 J	6.3	1.2
t-1,2-Dichloroethene	ND	37	6.0	1.4 J	6.9	1.1	ND	23	3.7	ND	7.2	1.2
1,1-Dichloroethane	77	38	4.5	ND	7.1	0.84	9.0 J	24	2.8	ND	7.3	0.87
Vinyl Acetate	ND	160	5.7	ND	31	1.1	ND	100	3.6	ND	32	1.1
c-1,2-Dichloroethene	ND	37	8.1	ND	6.9	1.5	ND	23	5.1	ND	7.2	1.6
2-Butanone	ND	28	7.0	ND	5.1	1.3	ND	17	4.4	ND	5.3	1.3
t-Butyl Methyl Ether (MTBE)	ND	34	6.7	ND	6.3	1.2	ND	21	4.2	ND	6.5	1.3
Chloroform	32 J	46	6.3	ND	8.5	1.2	38	28	4.0	2.3 J	8.8	1.2
1,1,1-Trichloroethane	ND	51	5.8	ND	9.5	1.1	20 J	32	3.6	ND	9.8	1.1
Carbon Tetrachloride	ND	59	6.8	ND	11	1.3	ND	37	4.2	ND	11	1.3
Benzene	6.5 J	30	5.9	1.1 J	5.6	1.1	13 J	19	3.7	1.4 J	5.8	1.1
1,2-Dichloroethane	ND	38	9.9	ND	7.1	1.9	6.7 J	24	6.2	ND	7.3	1.9
Trichloroethene	8,900	50	7.8	16	9.4	1.5	180	31	4.9	29	9.7	1.5
1,2-Dichloropropane	ND	43	5.5	ND	8.1	1.0	ND	27	3.4	ND	8.3	1.1
Bromodichloromethane	ND	63	9.4	ND	12	1.8	ND	39	5.9	ND	12	1.8
c-1,3-Dichloropropene	ND	42	9.6	ND	7.9	1.8	ND	26	6.0	ND	8.2	1.8
4-Methyl-2-Pentanone	ND	38	2.2	ND	7.1	0.41	ND	24	1.4	ND	7.4	0.43
Toluene	52	35	5.8	1.5 J	6.6	1.1	120	22	3.6	1.8 J	6.8	1.1
t-1,3-Dichloropropene	ND	42	11	ND	7.9	2.1	ND	26	7.0	ND	8.2	2.2
1,1,2-Trichloroethane	ND	51	10	ND	9.5	1.9	ND	32	6.5	ND	9.8	2.0
Tetrachloroethene	11,000	63	13	250	12	2.5	8,100	40	8.2	680	12	2.5
2-Hexanone	ND	38	5.5	ND	7.1	1.0	ND	24	3.4	ND	7.4	1.1
Dibromochloromethane	ND	80	14	ND	15	2.6	ND	50	8.5	ND	15	2.6
1,2-Dibromoethane	ND	72	9.4	ND	13	1.8	ND	45	5.9	ND	14	1.8
Chlorobenzene	ND	43	6.2	ND	8.0	1.2	ND	27	3.9	ND	8.3	1.2

18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832
PAGE 074

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-13			C122107-14			C122107-15			C122107-16		
Client Sample I.D.:	OC_SVE_VMP-4_122011			OC_SVE_VMP-5_122011			OC_SVE_VMP-6_122011			OC_SVE_VMP-11_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/29/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111229MS3A1			111229MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	9.4			1.7			5.8			1.8		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	5.8 J	41	1.5	ND	7.6	0.27	7.9 J	25	0.91	2.3 J	7.8	0.28
p,&m-Xylene	30 J	41	9.3	ND	7.6	1.7	25	25	5.8	8.4	7.8	1.8
o-Xylene	15 J	41	5.6	ND	7.6	1.0	12 J	25	3.5	3.1 J	7.8	1.1
Isopropanol	ND	120	53	ND	21	9.8	ND	72	33	ND	22	10
n-Hexane	ND	160	28	ND	31	5.3	ND	100	18	ND	32	5.5
1,4-Dioxane	ND	170	38	ND	31	7.1	ND	110	24	ND	33	7.3
Total VOC's	29,000			290			9,000			780		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	105%	70-130%	95%	70-130%	82%	70-130%	85%	70-130%
Toluene-d8	94%	70-130%	92%	70-130%	105%	70-130%	103%	70-130%
4-Bromofluorobenzene	107%	70-130%	95%	70-130%	98%	70-130%	107%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 1/11/12

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-17			C122107-18			C122107-19			C122107-20		
Client Sample I.D.:	OC_SVE_VMP-12_122011			OC_SVE_VMP-13_122011			OC_SVE_VMP-14_122011			OC_SVE_VMP-15_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/29/11			12/29/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111229MS2A1			111229MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.1 J	8.6	0.52	3.0 J	8.3	0.51	3.1 J	8.6	0.52	2.6 J	8.3	0.51
Chloromethane	ND	7.2	1.2	ND	7.0	1.2	ND	7.2	1.2	ND	7.0	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	12	1.6	ND	12	1.5	ND	12	1.6	ND	12	1.5
Vinyl Chloride	ND	4.5	0.99	ND	4.3	0.95	ND	4.5	0.99	ND	4.3	0.95
Bromomethane	ND	6.8	2.3	ND	6.5	2.3	ND	6.8	2.3	ND	6.5	2.3
Chloroethane	ND	4.6	3.4	ND	4.4	3.3	ND	4.6	3.4	ND	4.4	3.3
Trichlorofluoromethane (11)	ND	9.8	4.0	4.0 J	9.5	3.9	ND	9.8	4.0	ND	9.5	3.9
1,1-Dichloroethene	ND	6.9	0.75	1.8 J	6.7	0.72	4.6 J	6.9	0.75	9.1	6.7	0.72
Carbon Disulfide	ND	27	0.81	ND	26	0.78	4.6 J	27	0.81	5.9 J	26	0.78
1,1,2-Cl 1,2,2-F ethane (113)	ND	13	3.1	14	13	3.0	6.4 J	13	3.1	ND	13	3.0
Acetone	32	21	1.3	ND	20	1.3	10 J	21	1.3	18 J	20	1.3
Methylene Chloride	ND	6.1	1.2	ND	5.9	1.1	ND	6.1	1.2	ND	5.9	1.1
t-1,2-Dichloroethene	ND	6.9	1.1	ND	6.7	1.1	ND	6.9	1.1	ND	6.7	1.1
1,1-Dichloroethane	ND	7.1	0.84	ND	6.8	0.81	ND	7.1	0.84	ND	6.8	0.81
Vinyl Acetate	ND	31	1.1	ND	30	1.0	ND	31	1.1	ND	30	1.0
c-1,2-Dichloroethene	ND	6.9	1.5	ND	6.7	1.5	ND	6.9	1.5	ND	6.7	1.5
2-Butanone	ND	5.1	1.3	ND	5.0	1.3	ND	5.1	1.3	ND	5.0	1.3
t-Butyl Methyl Ether (MTBE)	ND	6.3	1.2	ND	6.1	1.2	ND	6.3	1.2	ND	6.1	1.2
Chloroform	ND	8.5	1.2	1.9 J	8.2	1.1	ND	8.5	1.2	2.0 J	8.2	1.1
1,1,1-Trichloroethane	ND	9.5	1.1	ND	9.2	1.0	ND	9.5	1.1	ND	9.2	1.0
Carbon Tetrachloride	ND	11	1.3	ND	11	1.2	ND	11	1.3	ND	11	1.2
Benzene	3.2 J	5.6	1.1	1.7 J	5.4	1.1	1.7 J	5.6	1.1	1.4 J	5.4	1.1
1,2-Dichloroethane	ND	7.1	1.9	ND	6.8	1.8	ND	7.1	1.9	ND	6.8	1.8
Trichloroethene	2.4 J	9.4	1.5	7.4 J	9.1	1.4	22	9.4	1.5	32	9.1	1.4
1,2-Dichloropropane	ND	8.1	1.0	ND	7.8	0.99	ND	8.1	1.0	ND	7.8	0.99
Bromodichloromethane	ND	12	1.8	ND	11	1.7	ND	12	1.8	ND	11	1.7
c-1,3-Dichloropropene	ND	7.9	1.8	ND	7.6	1.7	ND	7.9	1.8	ND	7.6	1.7
4-Methyl-2-Pentanone	ND	7.1	0.41	ND	6.9	0.40	ND	7.1	0.41	ND	6.9	0.40
Toluene	6.8	6.6	1.1	3.7 J	6.3	1.0	8.0	6.6	1.1	4.2 J	6.3	1.0
t-1,3-Dichloropropene	ND	7.9	2.1	ND	7.6	2.0	ND	7.9	2.1	ND	7.6	2.0
1,1,2-Trichloroethane	ND	9.5	1.9	ND	9.2	1.9	ND	9.5	1.9	ND	9.2	1.9
Tetrachloroethene	110	12	2.5	59	11	2.4	180	12	2.5	990	11	2.4
2-Hexanone	ND	7.1	1.0	ND	6.9	0.98	ND	7.1	1.0	ND	6.9	0.98
Dibromochloromethane	ND	15	2.6	ND	14	2.5	ND	15	2.6	ND	14	2.5
1,2-Dibromoethane	ND	13	1.8	ND	13	1.7	ND	13	1.8	ND	13	1.7
Chlorobenzene	ND	8.0	1.2	ND	7.8	1.1	ND	8.0	1.2	ND	7.8	1.1

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-17			C122107-18			C122107-19			C122107-20		
Client Sample I.D.:	OC_SVE_VMP-12_122011			OC_SVE_VMP-13_122011			OC_SVE_VMP-14_122011			OC_SVE_VMP-15_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/29/11			12/29/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111229MS2A1			111229MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			1.7			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	1.4 J	7.6	0.27	ND	7.3	0.26	4.1 J	7.6	0.27	2.5 J	7.3	0.26
p,&m-Xylene	5.5 J	7.6	1.7	2.1 J	7.3	1.7	25	7.6	1.7	10	7.3	1.7
o-Xylene	2.7 J	7.6	1.0	ND	7.3	1.0	6.1 J	7.6	1.0	3.3 J	7.3	1.0
Isopropanol	ND	21	9.8	ND	21	9.5	ND	21	9.8	ND	21	9.5
n-Hexane	ND	31	5.3	ND	30	5.1	ND	31	5.3	ND	30	5.1
1,4-Dioxane	ND	31	7.1	ND	30	6.8	ND	31	7.1	ND	30	6.8
Total VOC's	170			99			280			1,100		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	98%	70-130%	97%	70-130%	84%	70-130%	91%	70-130%
Toluene-d8	90%	70-130%	94%	70-130%	105%	70-130%	94%	70-130%
4-Bromofluorobenzene	101%	70-130%	92%	70-130%	108%	70-130%	101%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1/11/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-21			C122107-22			C122107-23			C122107-24		
Client Sample I.D.:	OC_SVE_VMP-16_122011			OC_SVE_VMP-17_122011			OC_SVE_VMP-19_122011			OC_SVE_VMP-20_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111229MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	3.4			1.9			1.7			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	ND	17	1.0	2.9 J	9.6	0.59	2.9 J	8.6	0.53	3.4 J	8.6	0.53
Chloromethane	ND	14	2.3	1.7 J	8.0	1.3	ND	7.2	1.2	ND	7.2	1.2
1,2-Cl-1,1,2,2-F ethane (114)	ND	24	3.0	ND	14	1.8	ND	12	1.6	ND	12	1.6
Vinyl Chloride	ND	8.6	1.9	ND	5.0	1.1	ND	4.5	0.99	ND	4.5	0.99
Bromomethane	ND	13	4.5	ND	7.5	2.6	ND	6.8	2.3	ND	6.8	2.3
Chloroethane	ND	8.9	6.6	ND	5.1	3.8	ND	4.6	3.4	ND	4.6	3.4
Trichlorofluoromethane (11)	ND	19	7.7	ND	11	4.5	24	9.8	4.0	23	9.8	4.0
1,1-Dichloroethene	ND	13	1.4	ND	7.7	0.83	130	6.9	0.75	57	6.9	0.75
Carbon Disulfide	ND	52	1.6	ND	30	0.90	ND	27	0.81	ND	27	0.81
1,1,2-Cl 1,2,2-F ethane (113)	ND	26	5.9	ND	15	3.4	36	13	3.1	170	13	3.1
Acetone	ND	40	2.5	28	23	1.4	36	21	1.3	30	21	1.3
Methylene Chloride	ND	12	2.3	ND	6.8	1.3	ND	6.1	1.2	ND	6.1	1.2
t-1,2-Dichloroethene	ND	13	2.2	ND	7.7	1.2	ND	6.9	1.1	ND	6.9	1.1
1,1-Dichloroethane	ND	14	1.6	ND	7.9	0.93	ND	7.1	0.84	ND	7.1	0.84
Vinyl Acetate	ND	59	2.1	ND	34	1.2	ND	31	1.1	ND	31	1.1
c-1,2-Dichloroethene	ND	13	2.9	ND	7.7	1.7	ND	6.9	1.5	ND	6.9	1.5
2-Butanone	ND	9.9	2.5	ND	5.7	1.5	ND	5.1	1.3	8.6	5.1	1.3
t-Butyl Methyl Ether (MTBE)	ND	12	2.4	ND	7.0	1.4	ND	6.3	1.2	ND	6.3	1.2
Chloroform	ND	16	2.3	ND	9.5	1.3	1.2 J	8.5	1.2	14	8.5	1.2
1,1,1-Trichloroethane	ND	18	2.1	ND	11	1.2	2.4 J	9.5	1.1	ND	9.5	1.1
Carbon Tetrachloride	ND	21	2.4	ND	12	1.4	ND	11	1.3	ND	11	1.3
Benzene	220	11	2.1	2.5 J	6.2	1.2	2.3 J	5.6	1.1	1.1 J	5.6	1.1
1,2-Dichloroethane	ND	14	3.6	ND	7.9	2.1	ND	7.1	1.9	ND	7.1	1.9
Trichloroethene	23	18	2.8	ND	10	1.6	180	9.4	1.5	75	9.4	1.5
1,2-Dichloropropane	ND	16	2.0	ND	9.0	1.1	ND	8.1	1.0	ND	8.1	1.0
Bromodichloromethane	9.0 J	23	3.4	ND	13	2.0	ND	12	1.8	2.4 J	12	1.8
c-1,3-Dichloropropene	ND	15	3.4	ND	8.8	2.0	ND	7.9	1.8	ND	7.9	1.8
4-Methyl-2-Pentanone	ND	14	0.80	ND	8.0	0.46	ND	7.1	0.41	ND	7.1	0.41
Toluene	2,000	13	2.1	6.8 J	7.3	1.2	1.6 J	6.6	1.1	1.4 J	6.6	1.1
t-1,3-Dichloropropene	ND	15	4.0	ND	8.8	2.3	ND	7.9	2.1	ND	7.9	2.1
1,1,2-Trichloroethane	ND	18	3.8	ND	11	2.2	ND	9.5	1.9	ND	9.5	1.9
Tetrachloroethene	580	23	4.8	6.9 J	13	2.7	3,300	12	2.5	980	12	2.5
2-Hexanone	ND	14	2.0	ND	8.0	1.1	ND	7.1	1.0	ND	7.1	1.0
Dibromochloromethane	ND	29	4.9	ND	17	2.8	ND	15	2.6	2.6 J	15	2.6
1,2-Dibromoethane	ND	26	3.4	ND	15	2.0	ND	13	1.8	ND	13	1.8
Chlorobenzene	ND	16	2.2	ND	8.9	1.3	ND	8.0	1.2	ND	8.0	1.2

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-21			C122107-22			C122107-23			C122107-24		
Client Sample I.D.:	OC_SVE_VMP-16_122011			OC_SVE_VMP-17_122011			OC_SVE_VMP-19_122011			OC_SVE_VMP-20_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111229MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	3.4			1.9			1.7			1.7		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	570	15	0.53	5.1 J	8.4	0.30	ND	7.6	0.27	ND	7.6	0.27
p,&m-Xylene	2,100	15	3.3	24	8.4	1.9	2.7 J	7.6	1.7	ND	7.6	1.7
o-Xylene	560	15	2.0	8.2 J	8.4	1.2	ND	7.6	1.0	ND	7.6	1.0
Isopropanol	ND	41	19	ND	24	11	ND	21	9.8	ND	21	9.8
n-Hexane	140	59	10	ND	34	5.9	ND	31	5.3	ND	31	5.3
1,4-Dioxane	ND	61	14	ND	35	7.9	ND	31	7.1	ND	31	7.1
Total VOC's	6,200			86			3,700			1,400		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	94%	70-130%	100%	70-130%	100%	70-130%	103%	70-130%
Toluene-d8	101%	70-130%	90%	70-130%	91%	70-130%	94%	70-130%
4-Bromofluorobenzene	98%	70-130%	100%	70-130%	94%	70-130%	96%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: _____ Date 1/11/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-25			C122107-26			C122107-27			C122107-28		
Client Sample I.D.:	OC_SVE_VMP-21_122011			OC_SVE_VMP-22_122011			OC_SVE_VMP-23_122011			OC_SVE_VMP-24_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			5.2			3.4		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.0 J	8.6	0.53	3.0 J	8.3	0.51	3.6 J	26	1.6	2.9 J	17	1.0
Chloromethane	ND	7.2	1.2	ND	7.0	1.2	ND	22	3.6	ND	14	2.3
1,2-Cl-1,1,2,2-F ethane (114)	ND	12	1.6	ND	12	1.5	ND	37	4.7	ND	24	3.0
Vinyl Chloride	ND	4.5	0.99	ND	4.3	0.95	ND	13	3.0	ND	8.6	1.9
Bromomethane	ND	6.8	2.3	ND	6.5	2.3	ND	20	7.0	ND	13	4.5
Chloroethane	ND	4.6	3.4	ND	4.4	3.3	ND	14	10	ND	8.9	6.6
Trichlorofluoromethane (11)	ND	9.8	4.0	ND	9.5	3.9	ND	29	12	ND	19	7.7
1,1-Dichloroethene	9.3	6.9	0.75	7.7	6.7	0.72	160	21	2.2	43	13	1.4
Carbon Disulfide	8.5 J	27	0.81	ND	26	0.78	ND	81	2.4	11 J	52	1.6
1,1,2-Cl 1,2,2-F ethane (113)	5.0 J	13	3.1	5.9 J	13	3.0	25 J	40	9.2	10 J	26	5.9
Acetone	27	21	1.3	38	20	1.3	54 J	62	3.9	37 J	40	2.5
Methylene Chloride	ND	6.1	1.2	4.9 J	5.9	1.1	ND	18	3.6	ND	12	2.3
t-1,2-Dichloroethene	ND	6.9	1.1	2.4 J	6.7	1.1	ND	21	3.4	ND	13	2.2
1,1-Dichloroethane	ND	7.1	0.84	ND	6.8	0.81	ND	21	2.5	ND	14	1.6
Vinyl Acetate	ND	31	1.1	ND	30	1.0	ND	92	3.2	ND	59	2.1
c-1,2-Dichloroethene	ND	6.9	1.5	ND	6.7	1.5	ND	21	4.5	ND	13	2.9
2-Butanone	ND	5.1	1.3	7.6	5.0	1.3	ND	15	3.9	ND	9.9	2.5
t-Butyl Methyl Ether (MTBE)	ND	6.3	1.2	ND	6.1	1.2	31	19	3.7	21	12	2.4
Chloroform	ND	8.5	1.2	4.1 J	8.2	1.1	25 J	26	3.5	3.2 J	16	2.3
1,1,1-Trichloroethane	ND	9.5	1.1	2.2 J	9.2	1.0	ND	29	3.2	ND	18	2.1
Carbon Tetrachloride	ND	11	1.3	ND	11	1.2	ND	33	3.8	ND	21	2.4
Benzene	1.3 J	5.6	1.1	ND	5.4	1.1	7.5 J	17	3.3	5.4 J	11	2.1
1,2-Dichloroethane	ND	7.1	1.9	ND	6.8	1.8	ND	21	5.6	ND	14	3.6
Trichloroethene	78	9.4	1.5	61	9.1	1.4	120	28	4.4	80	18	2.8
1,2-Dichloropropane	ND	8.1	1.0	ND	7.8	0.99	ND	24	3.1	ND	16	2.0
Bromodichloromethane	ND	12	1.8	ND	11	1.7	ND	35	5.3	ND	23	3.4
c-1,3-Dichloropropene	ND	7.9	1.8	ND	7.6	1.7	ND	24	5.3	ND	15	3.4
4-Methyl-2-Pentanone	ND	7.1	0.41	ND	6.9	0.40	ND	21	1.2	14	14	0.80
Toluene	1.6 J	6.6	1.1	1.6 J	6.3	1.0	78	20	3.2	40	13	2.1
t-1,3-Dichloropropene	ND	7.9	2.1	ND	7.6	2.0	ND	24	6.3	ND	15	4.0
1,1,2-Trichloroethane	ND	9.5	1.9	3.5 J	9.2	1.9	ND	29	5.8	ND	18	3.8
Tetrachloroethene	670	12	2.5	1,000	11	2.4	7,100	35	7.4	3,900	23	4.8
2-Hexanone	ND	7.1	1.0	ND	6.9	0.98	ND	21	3.1	ND	14	2.0
Dibromochloromethane	ND	15	2.6	ND	14	2.5	ND	45	7.7	ND	29	4.9
1,2-Dibromoethane	ND	13	1.8	ND	13	1.7	ND	40	5.3	ND	26	3.4
Chlorobenzene	ND	8.0	1.2	ND	7.8	1.1	ND	24	3.5	ND	16	2.2

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-25			C122107-26			C122107-27			C122107-28		
Client Sample I.D.:	OC_SVE_VMP-21_122011			OC_SVE_VMP-22_122011			OC_SVE_VMP-23_122011			OC_SVE_VMP-24_122011		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.7			1.7			5.2			3.4		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	7.6	0.27	ND	7.3	0.26	22 J	23	0.82	12 J	15	0.53
p,&m-Xylene	ND	7.6	1.7	ND	7.3	1.7	120	23	5.2	62	15	3.3
o-Xylene	ND	7.6	1.0	ND	7.3	1.0	35	23	3.1	18	15	2.0
Isopropanol	ND	21	9.8	ND	21	9.5	ND	64	29	ND	41	19
n-Hexane	ND	31	5.3	ND	30	5.1	ND	92	16	ND	59	10
1,4-Dioxane	9.2 J	31	7.1	ND	30	6.8	ND	94	21	ND	61	14
Total VOC's	810			1,100			7,800			4,300		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	104%	70-130%	101%	70-130%	99%	70-130%	96%	70-130%
Toluene-d8	91%	70-130%	89%	70-130%	92%	70-130%	94%	70-130%
4-Bromofluorobenzene	100%	70-130%	97%	70-130%	106%	70-130%	101%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 1/11/12

The cover letter is an integral part of this analytical report

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-29			C122107-30			C122107-31			C122107-32		
Client Sample I.D.:	OC_SVE_VMP-25_122011			OC_SVE_VMP-26_122011			OC_SVE_VMP-27_122011			OC_SVE_VE-1M_122011K		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			1.7			1.7			5.6		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	3.1 J	9.3	0.56	3.0 J	8.6	0.53	3.6 J	8.3	0.51	4.8 J	28	1.7
Chloromethane	ND	7.7	1.3	3.0 J	7.2	1.2	ND	7.0	1.2	ND	23	3.9
1,2-Cl-1,1,2,2-F ethane (114)	ND	13	1.7	ND	12	1.6	ND	12	1.5	ND	39	5.1
Vinyl Chloride	ND	4.8	1.1	ND	4.5	0.99	ND	4.3	0.95	ND	14	3.2
Bromomethane	ND	7.3	2.5	ND	6.8	2.3	ND	6.5	2.3	ND	22	7.6
Chloroethane	ND	4.9	3.7	ND	4.6	3.4	ND	4.4	3.3	ND	15	11
Trichlorofluoromethane (11)	ND	11	4.3	ND	9.8	4.0	ND	9.5	3.9	370	32	13
1,1-Dichloroethene	12	7.4	0.80	4.6 J	6.9	0.75	ND	6.7	0.72	3,000	22	2.4
Carbon Disulfide	ND	29	0.86	2.1 J	27	0.81	4.9 J	26	0.78	ND	88	2.6
1,1,2-Cl 1,2,2-F ethane (113)	6.7 J	14	3.3	ND	13	3.1	ND	13	3.0	800	43	9.9
Acetone	28	22	1.4	120	21	1.3	20	20	1.3	54 J	67	4.2
Methylene Chloride	ND	6.5	1.3	ND	6.1	1.2	ND	5.9	1.1	ND	20	3.8
t-1,2-Dichloroethene	ND	7.4	1.2	ND	6.9	1.1	ND	6.7	1.1	ND	22	3.6
1,1-Dichloroethane	ND	7.6	0.90	ND	7.1	0.84	ND	6.8	0.81	3.6 J	23	2.7
Vinyl Acetate	ND	33	1.1	ND	31	1.1	ND	30	1.0	ND	99	3.4
c-1,2-Dichloroethene	ND	7.4	1.6	ND	6.9	1.5	ND	6.7	1.5	ND	22	4.9
2-Butanone	6.1	5.5	1.4	4.1 J	5.1	1.3	ND	5.0	1.3	ND	17	4.2
t-Butyl Methyl Ether (MTBE)	ND	6.7	1.3	ND	6.3	1.2	ND	6.1	1.2	ND	20	4.0
Chloroform	ND	9.1	1.3	ND	8.5	1.2	ND	8.2	1.1	34	27	3.8
1,1,1-Trichloroethane	ND	10	1.2	ND	9.5	1.1	ND	9.2	1.0	12 J	31	3.5
Carbon Tetrachloride	ND	12	1.4	ND	11	1.3	ND	11	1.2	ND	35	4.1
Benzene	ND	6.0	1.2	1.2 J	5.6	1.1	ND	5.4	1.1	3.7 J	18	3.5
1,2-Dichloroethane	ND	7.6	2.0	ND	7.1	1.9	ND	6.8	1.8	7.2 J	23	6.0
Trichloroethene	9.2 J	10	1.6	20	9.4	1.5	ND	9.1	1.4	420	30	4.7
1,2-Dichloropropane	ND	8.7	1.1	ND	8.1	1.0	ND	7.8	0.99	ND	26	3.3
Bromodichloromethane	ND	13	1.9	ND	12	1.8	ND	11	1.7	ND	38	5.7
c-1,3-Dichloropropene	ND	8.5	1.9	ND	7.9	1.8	ND	7.6	1.7	ND	26	5.7
4-Methyl-2-Pentanone	ND	7.7	0.44	ND	7.1	0.41	ND	6.9	0.40	ND	23	1.3
Toluene	1.6 J	7.1	1.2	1.4 J	6.6	1.1	ND	6.3	1.0	31	21	3.5
t-1,3-Dichloropropene	ND	8.5	2.2	ND	7.9	2.1	ND	7.6	2.0	ND	26	6.7
1,1,2-Trichloroethane	ND	10	2.1	ND	9.5	1.9	ND	9.2	1.9	ND	31	6.3
Tetrachloroethene	710	13	2.6	81	12	2.5	ND	11	2.4	6,400	38	7.9
2-Hexanone	ND	7.7	1.1	ND	7.1	1.0	ND	6.9	0.98	ND	23	3.3
Dibromochloromethane	ND	16	2.7	ND	15	2.6	ND	14	2.5	ND	48	8.2
1,2-Dibromoethane	ND	14	1.9	ND	13	1.8	ND	13	1.7	ND	43	5.7
Chlorobenzene	ND	8.6	1.2	ND	8.0	1.2	ND	7.8	1.1	ND	26	3.7

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-29			C122107-30			C122107-31			C122107-32		
Client Sample I.D.:	OC_SVE_VMP-25_122011			OC_SVE_VMP-26_122011			OC_SVE_VMP-27_122011			OC_SVE_VE-1M_122011K		
Date Sampled:	12/20/11			12/20/11			12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11			12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1			111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			1.7			1.7			5.6		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Ethylbenzene	ND	8.1	0.29	ND	7.6	0.27	ND	7.3	0.26	13 J	24	0.88
p,&m-Xylene	ND	8.1	1.9	ND	7.6	1.7	ND	7.3	1.7	54	24	5.6
o-Xylene	ND	8.1	1.1	ND	7.6	1.0	ND	7.3	1.0	19 J	24	3.4
Isopropanol	ND	23	11	ND	21	9.8	ND	21	9.5	ND	69	32
n-Hexane	ND	33	5.7	ND	31	5.3	ND	30	5.1	ND	99	17
1,4-Dioxane	ND	34	7.6	ND	31	7.1	ND	30	6.8	35 J	100	23
Total VOC's	780			240			29			11,000		

Surrogate	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	106%	70-130%	102%	70-130%	113%	70-130%	100%	70-130%
Toluene-d8	92%	70-130%	83%	70-130%	89%	70-130%	94%	70-130%
4-Bromofluorobenzene	98%	70-130%	90%	70-130%	99%	70-130%	102%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 1/11/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fax: (626) 964-5832

PAGE 010

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-33			C122107-34		
Client Sample I.D.:	OC_SVE_VE-5M_122011K			OC_SVE_VMP-6_122011K		
Date Sampled:	12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	1.9			30		
ANALYTE	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**
Dichlorodifluoromethane (12)	2.7 J	9.3	0.56	ND	150	9.0
Chloromethane	ND	7.7	1.3	ND	120	21
1,2-Cl-1,1,2,2-F ethane (114)	ND	13	1.7	ND	210	27
Vinyl Chloride	ND	4.8	1.1	ND	76	17
Bromomethane	ND	7.3	2.5	ND	120	40
Chloroethane	ND	4.9	3.7	ND	79	59
Trichlorofluoromethane (11)	ND	11	4.3	290	170	69
1,1-Dichloroethene	ND	7.4	0.80	1,400	120	13
Carbon Disulfide	ND	29	0.86	ND	470	14
1,1,2-Cl 1,2,2-F ethane (113)	ND	14	3.3	8,300	230	53
Acetone	55	22	1.4	170 J	350	22
Methylene Chloride	ND	6.5	1.3	ND	100	20
t-1,2-Dichloroethene	ND	7.4	1.2	ND	120	19
1,1-Dichloroethane	ND	7.6	0.90	42 J	120	14
Vinyl Acetate	ND	33	1.1	ND	530	18
c-1,2-Dichloroethene	ND	7.4	1.6	ND	120	26
2-Butanone	ND	5.5	1.4	ND	88	22
t-Butyl Methyl Ether (MTBE)	ND	6.7	1.3	ND	110	21
Chloroform	ND	9.1	1.3	58 J	150	20
1,1,1-Trichloroethane	ND	10	1.2	590	160	19
Carbon Tetrachloride	ND	12	1.4	ND	190	22
Benzene	2.2 J	6.0	1.2	ND	95	19
1,2-Dichloroethane	ND	7.6	2.0	ND	120	32
Trichloroethene	ND	10	1.6	2,300	160	25
1,2-Dichloropropane	ND	8.7	1.1	ND	140	17
Bromodichloromethane	ND	13	1.9	ND	200	30
c-1,3-Dichloropropene	ND	8.5	1.9	ND	140	31
4-Methyl-2-Pentanone	ND	7.7	0.44	ND	120	7.1
Toluene	4.4 J	7.1	1.2	63 J	110	18
t-1,3-Dichloropropene	ND	8.5	2.2	ND	140	36
1,1,2-Trichloroethane	ND	10	2.1	ND	160	33
Tetrachloroethene	ND	13	2.6	45,000	200	42
2-Hexanone	ND	7.7	1.1	ND	120	17
Dibromochloromethane	ND	16	2.7	ND	250	44
1,2-Dibromoethane	ND	14	1.9	ND	230	30
Chlorobenzene	ND	8.6	1.2	ND	140	20

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega - SVE System
Project No.: E742
Date Received: 12/21/11
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15

Lab No.:	C122107-33			C122107-34		
Client Sample I.D.:	OC_SVE_VE-5M_122011K			OC_SVE_VMP-6_122011K		
Date Sampled:	12/20/11			12/20/11		
Date Analyzed:	12/30/11			12/30/11		
QC Batch No.:	111230MS2A1			111230MS2A1		
Analyst Initials:	DT			DT		
Dilution Factor:	1.9			30		
ANALYTE	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**	**Result ug/m3**	**RL ug/m3**	**MDL ug/m3**
Ethylbenzene	ND	8.1	0.29	ND	130	4.7
p,&m-Xylene	3.2 J	8.1	1.9	33 J	130	30
o-Xylene	1.5 J	8.1	1.1	ND	130	18
Isopropanol	ND	23	11	ND	370	170
n-Hexane	ND	33	5.7	ND	530	91
1,4-Dioxane	ND	34	7.6	ND	540	120
Total VOC's	69			58,000		

Surrogate	Result	QC Criteria	Result	QC Criteria
1,2-Dichloroethane-d4	112%	70-130%	97%	70-130%
Toluene-d8	85%	70-130%	94%	70-130%
4-Bromofluorobenzene	102%	70-130%	103%	70-130%

Table 2-4

MDL = Method Detection Limit
ND= Not Detected (below MDL)
RL = Reporting Limit
J = Trace amount. Analyte concentration between RL and MDL.
* = Surrogate recovery exceeds QC Criteria

Reviewed/Approved By: Mark Johnson, Operations Manager Date 1/11/12

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
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LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111229MS3A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/29/11		12/29/11		12/29/11						
Data File ID:	29DEC010.D		29DEC008.D		29DEC009.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.3	113	11.3	113	0.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.4	114	11.4	114	0.0	70	130	30	Pass
Trichloroethene	0.0	10.0	11.0	110	10.9	109	0.4	70	130	30	Pass
Toluene	0.1	10.0	11.6	115	11.0	109	5.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.5	95	9.1	91	3.7	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 1/11/12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111229MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/29/11		12/29/11		12/29/11						
Data File ID:	29DEC012.D		29DEC004.D		29DEC005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.5	95	10.5	105	9.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.4	104	10.7	107	2.7	70	130	30	Pass
Trichloroethene	0.0	10.0	10.4	104	10.0	100	4.1	70	130	30	Pass
Toluene	0.0	10.0	9.4	94	9.0	90	5.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.3	93	9.4	94	0.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 1/11/12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 111230MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	12/30/11		12/30/11		12/30/11						
Data File ID:	30DEC006.D		30DEC004.D		30DEC005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.9	99	9.9	99	0.3	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.6	106	10.5	105	0.1	70	130	30	Pass
Trichloroethene	0.0	10.0	10.4	104	9.8	98	5.4	70	130	30	Pass
Toluene	0.0	10.0	9.6	96	10.0	100	4.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.0	90	8.0	80	11.8	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 1/11/12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

GC/MS QA-QC Check Report

Tune File : C:\GCMS-C\data\111226\29DEC006.D
Tune Time : 29 Dec 2011 1:03 pm

Daily Calibration File : C:\GCMS-C\data\111226\29DEC007.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					48954	238189	163007
29DEC013.D	C122107-02	84	97	114	39301	206593	128424
29DEC014.D	C122107-03	83	99	108	39005	205044	131939
29DEC015.D	C122107-04	84	103	107	43964	216092	137306
29DEC016.D	C122107-05	85	96	102	36864	194363	120795
29DEC017.D	C122107-06	84	98	107	39335	207224	130740
29DEC018.D	C122107-07	84	100	106	39962	206382	132621
29DEC020.D	C122107-09	85	102	104	40653	204399	128610
29DEC021.D	C122107-10	83	93	104	40116	200860	126294
29DEC022.D	C122107-11	85	98	107	41788	203301	126787
29DEC023.D	C122107-12	85	99	104	37749	186827	121238
29DEC026.D	C122107-15	82	105	98	41951	204527	139314

(fails) - fails 24hr time check * - fails criteria

Created: Fri Jan 06 19:36:19 2012 Instrument #1

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111226\29DEC001.D
Tune Time : 29 Dec 2011 4:25

Daily Calibration File : D:\GCMSB\111226\29DEC003.D

					Daily cali. I.S. response		
					53964	213379	113759
File	Sample	Surrogate Recovery %			Internal Standard Responses		
29DEC025	C122107-16 d	85	103	107	48663	231075	143645
29DEC028	C122107-19 d	84	105	108	49279	224515	140280
29DEC029	C122107-20 d	91	94	101	49826	205602	107678
29DEC031	C122107-22 d	100	90	100	50186	195890	97814

surrogate recovery limits 70-130%
Internal standard response limits 50-150%

t - fails 24hr time check * - fails criteria
Created:Fri Jan 06 19:32:46 2012

PAGE 017

GC/MS QA-QC Check Report

Tune File : D:\GCMSB\111226\30DEC001.D
Tune Time : 30 Dec 2011 00:51

Daily Calibration File : D:\GCMSB\111226\30DEC003.D

					Daily cali. I.S. response		
					51188	215569	126318
File	Sample	Surrogate Recovery %			Internal Standard Responses		
30DEC004	LCS	86	99	102	50738	207946	113708
30DEC005	LCSD	91	104	108	51784	225080	135907
30DEC006	METHOD BLANK	87	106	85	49742	209087	133672
30DEC012	C122107-17 d	98	90	101	47129	192666	105249
30DEC013	C122107-18 d	97	94	92	47534	193314	105703
30DEC014	C122107-21 d	94	101	98	48814	206910	116860
30DEC015	C122107-01 d	92	99	97	49550	204424	118746
30DEC016	C122107-28 d	96	94	101	49606	197440	106009
30DEC017	C122107-32 d	100	94	102	49192	197098	105143
30DEC018	C122107-27 d	99	92	106	49302	195577	106700
30DEC019	C122107-34 d	97	94	103	52169	203435	107950
30DEC020	C122107-08 d	100	91	98	50314	202017	102475
30DEC021	C122107-13 d	105	94	107	49803	199695	104325
30DEC022	C122107-14 d	95	92	95	52321	207137	106727
30DEC025	C122107-24 d	103	94	96	50128	194781	108276
30DEC026	C122107-25 d	104	91	100	50264	198262	102263
30DEC027	C122107-26 d	101	89	97	49008	197776	100658
30DEC028	C122107-29 d	106	92	98	46157	187338	97781
30DEC029	C122107-30 d	102	83	90	47464	184985	90422
30DEC030	C122107-31 d	113	89	99	45903	175165	84620
30DEC031	C122107-33 d	112	85	102	49151	175553	84627

surrogate recovery limits 70-130%
Internal standard response limits 50-150%

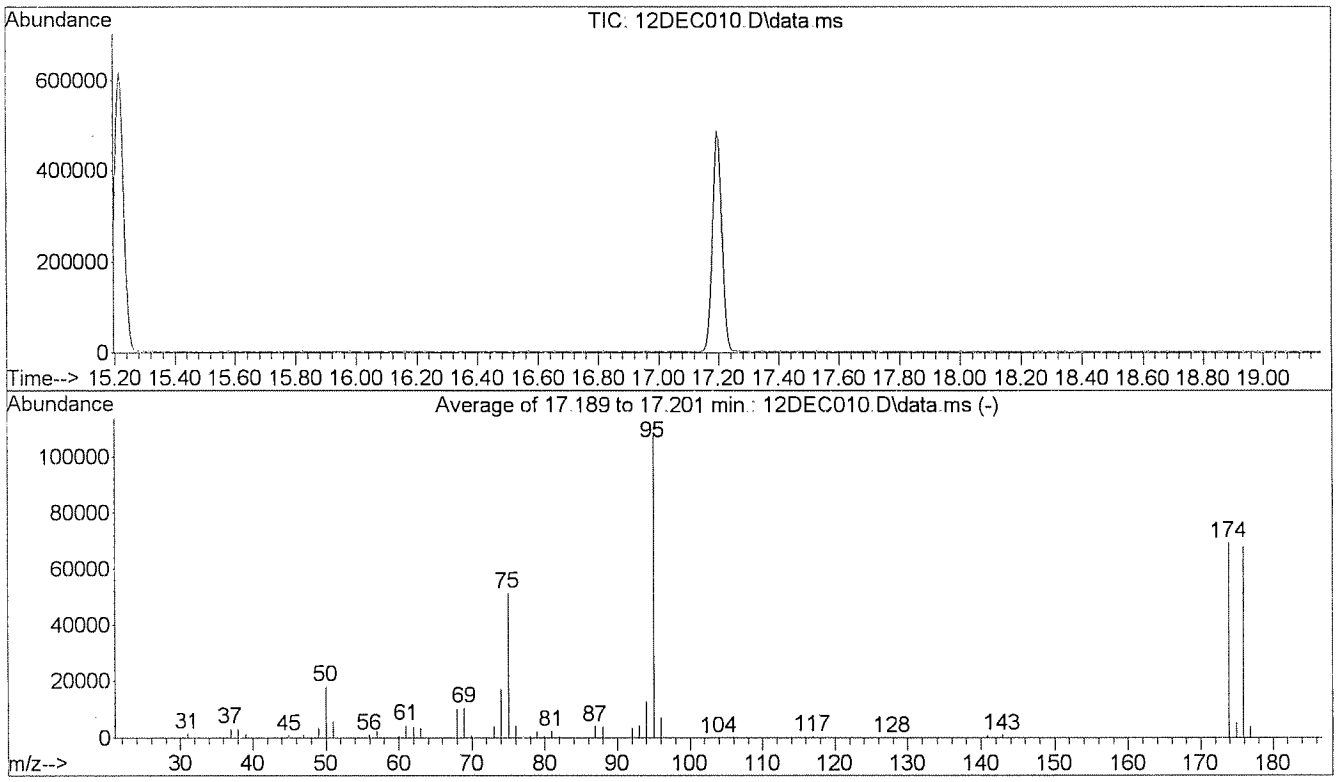
t - fails 24hr time check * - fails criteria
Created:Fri Jan 06 19:30:54 2012

BFB

Data Path : C:\GCMS-C\data\111212\
Data File : 12DEC010.D
Acq On : 12 Dec 2011 8:41 am
Operator : DT
Sample : BFB
Misc : 150ML
ALS Vial : 3 Sample Multiplier: 0.2

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\AL111212.M
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:28:01 2011



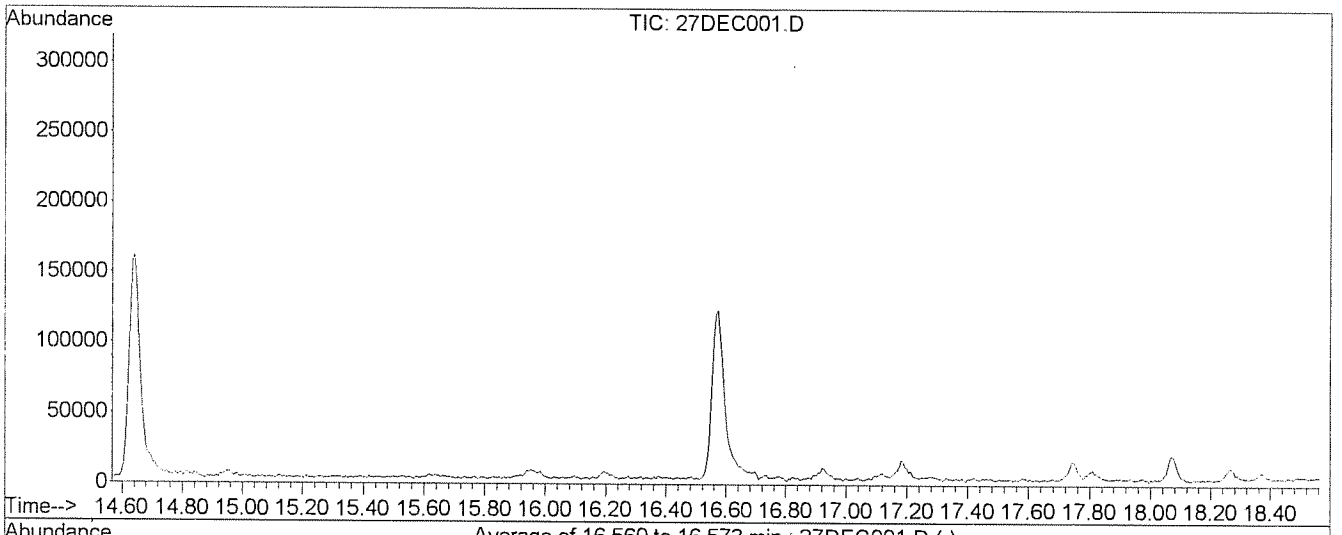
AutoFind: Scans 2239, 2240, 2241; Background Corrected with Scan 2230

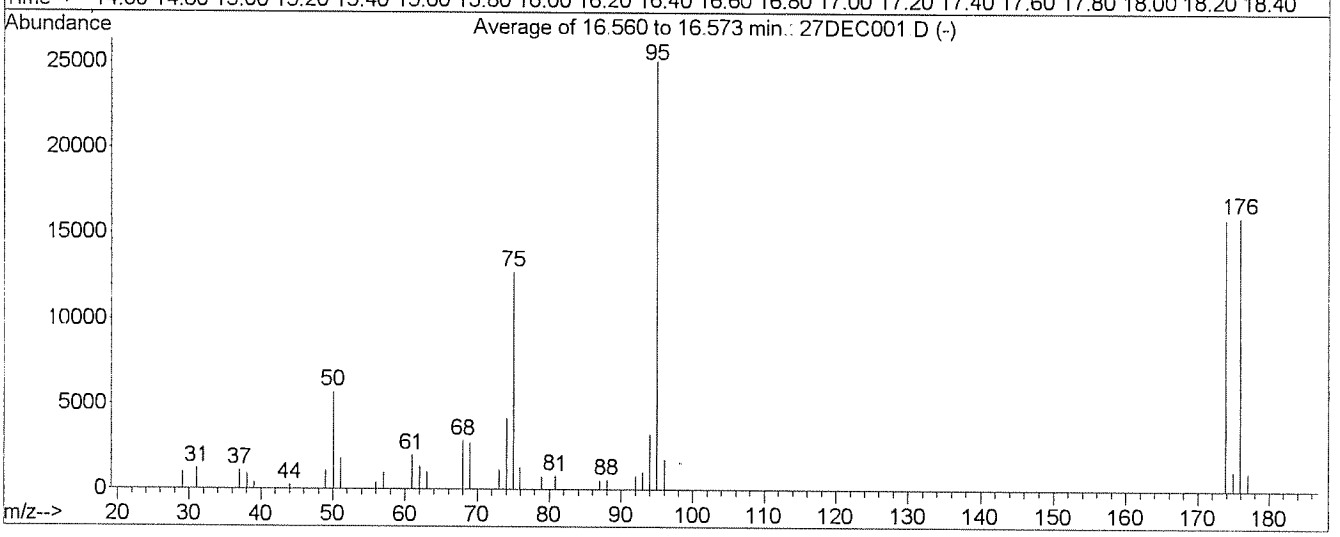
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	18101	PASS
75	95	30	60	47.3	51386	PASS
95	95	100	100	100.0	108648	PASS
96	95	5	9	6.8	7406	PASS
173	174	0.00	2	0.6	409	PASS
174	95	50	100	64.0	69485	PASS
175	174	5	9	7.9	5523	PASS
176	174	95	101	98.1	68176	PASS
177	176	5	9	6.0	4065	PASS

BFB

Data File : D:\GCMSB\111226\27DEC001.D
Acq On : 27 Dec 2011 8:18
Sample : BFB
Misc : 150 ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 16
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2193

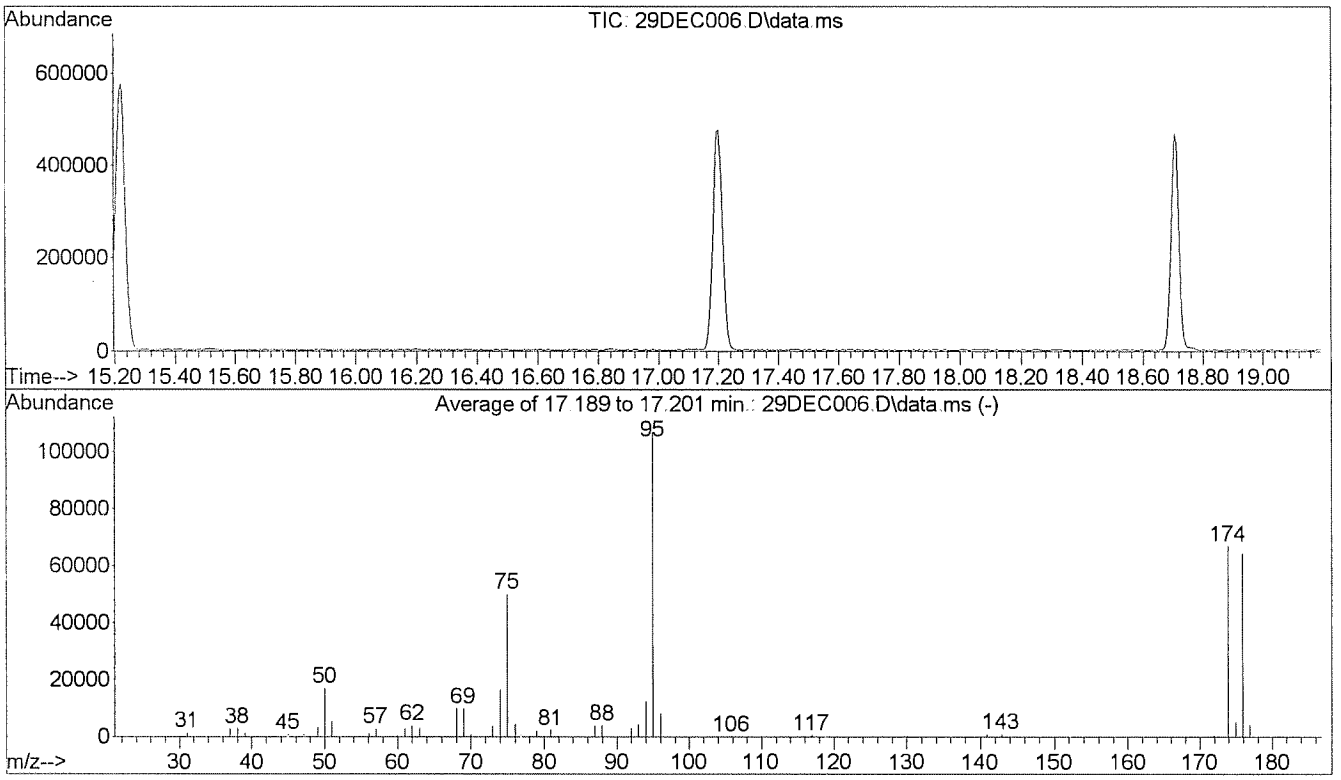
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	5755	PASS
75	95	30	60	50.7	12761	PASS
95	95	100	100	100.0	25152	PASS
96	95	5	9	7.1	1787	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.4	15936	PASS
175	174	5	9	7.3	1171	PASS
176	174	95	101	100.8	16061	PASS
177	176	5	9	6.6	1064	PASS

27DEC001.D TO111227.M Fri Jan 06 19:27:28 2012 GCMSB

Data Path : C:\GCMS-C\data\111226\
Data File : 29DEC006.D
Acq On : 29 Dec 2011 1:03 pm
Operator : VM
Sample : BFB
Misc : 150ML, EM = -176REL
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\GCMS-C\methods\TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011



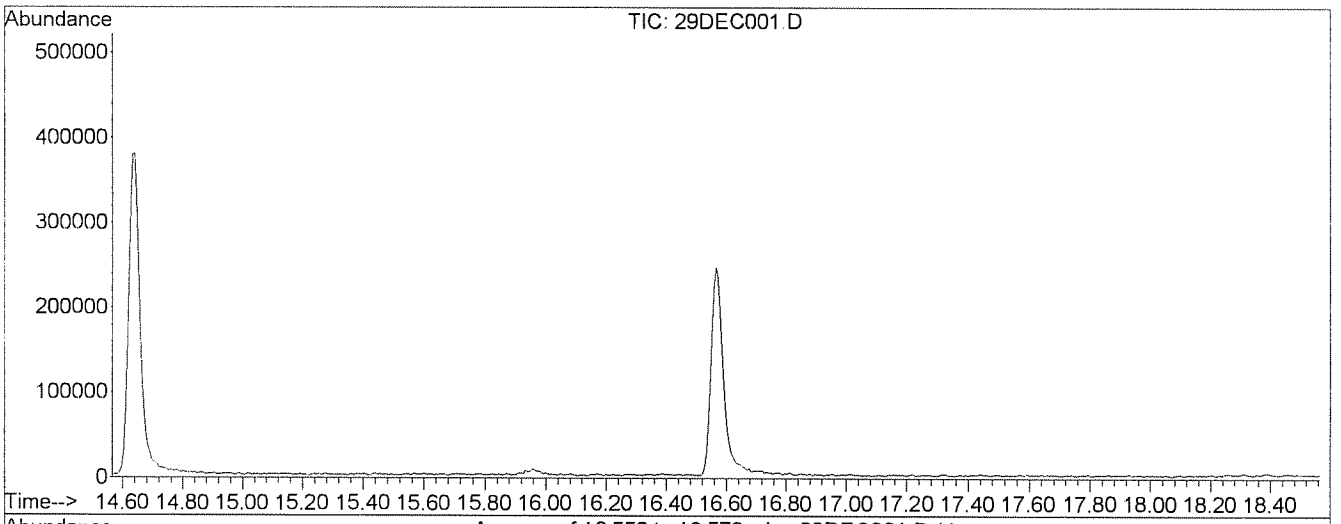
AutoFind: Scans 2239, 2240, 2241; Background Corrected with Scan 2229

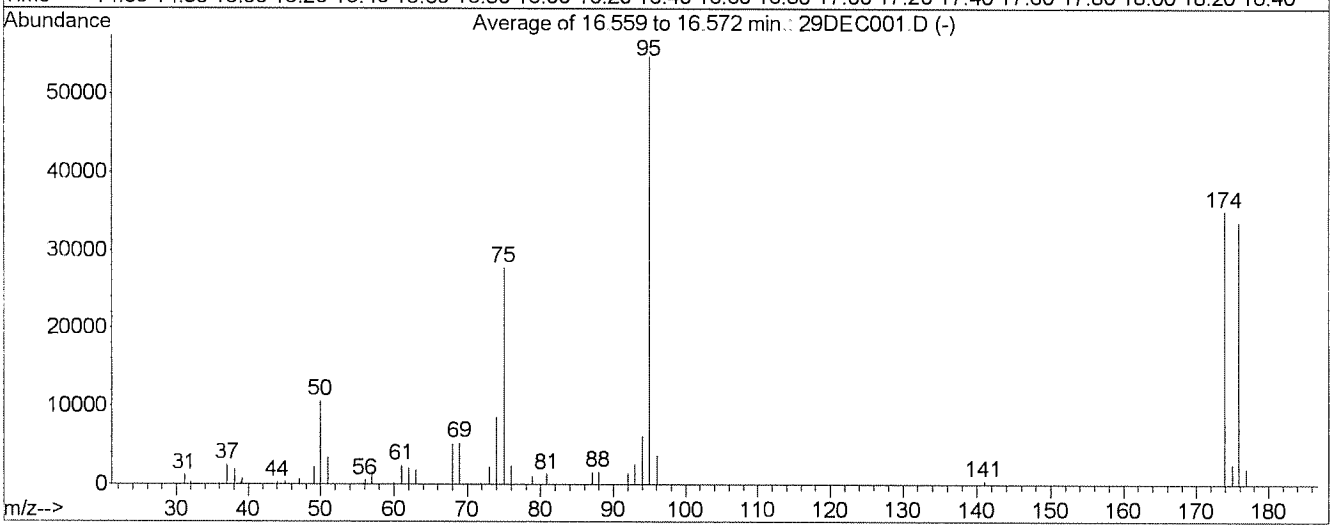
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	16968	PASS
75	95	30	60	46.7	50034	PASS
95	95	100	100	100.0	107104	PASS
96	95	5	9	7.5	8066	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.5	66970	PASS
175	174	5	9	7.8	5221	PASS
176	174	93	101	96.2	64397	PASS
177	176	5	9	6.6	4240	PASS

BFB

Data File : D:\GCMSB\111226\29DEC001.D
Acq On : 29 Dec 2011 4:25
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 15
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2193

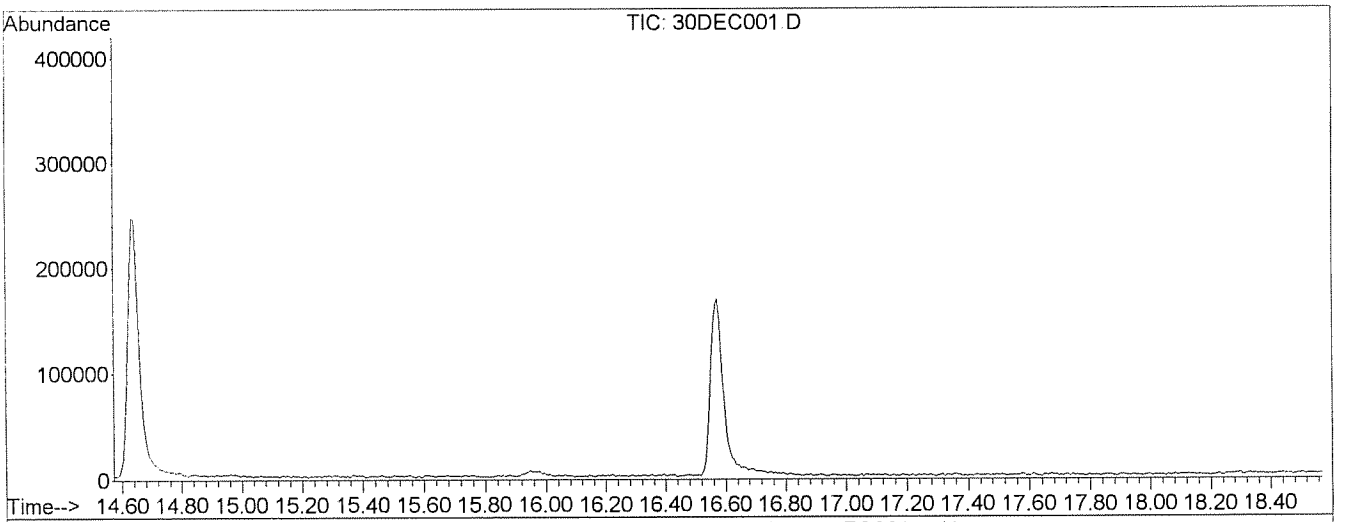
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	10597	PASS
75	95	30	60	50.7	27760	PASS
95	95	100	100	100.0	54749	PASS
96	95	5	9	6.8	3740	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.2	35139	PASS
175	174	5	9	7.6	2658	PASS
176	174	95	101	95.9	33699	PASS
177	176	5	9	6.1	2047	PASS

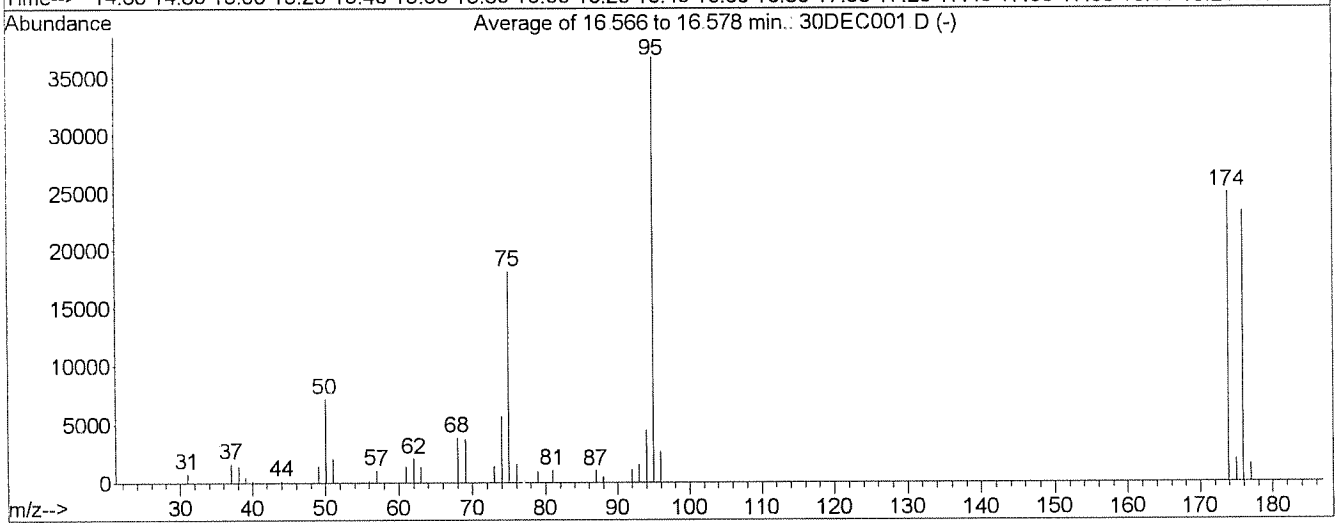
29DEC001.D TO111227.M Fri Jan 06 19:31:28 2012 GCMSB

BFB

Data File : D:\GCMSB\111226\30DEC001.D
Acq On : 30 Dec 2011 00:51
Sample : BFB
Misc : 150ML
MS Integration Params: RTEINT.P
Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 13
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2193

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	7225	PASS
75	95	30	60	49.4	18187	PASS
95	95	100	100	100.0	36848	PASS
96	95	5	9	7.2	2664	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.9	25029	PASS
175	174	5	9	8.0	2009	PASS
176	174	95	101	93.5	23400	FAIL*
177	176	5	9	6.7	1574	PASS

OK for TO15 v. 16/12

30DEC001.D TO111227.M Fri Jan 06 19:28:21 2012 GCMSB

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Initial Calibration

Calibration Files
1 =27DEC005.D 5 =27DEC006.D 10 =27DEC004.D
25 =27DEC007.D 100 =27DEC008.D 250 =27DEC009.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluoromet	9.306	7.553	7.491	6.886	6.079	4.129	6.907	25.00
3)		Chloromethane	2.385	2.114	2.267	2.105	1.873	1.396	2.023	17.42
4)		1,2-Cl-1,1,2,2-F et	8.180	6.446	6.635	6.211	5.480	3.809	6.127	23.51
5)		Vinyl Chloride	2.257	1.975	2.012	1.971	1.831	1.315	1.893	16.65
6)		Bromomethane	2.377	1.410	1.827	1.209	1.579	1.021	1.571	30.86
7)		Chloroethane	1.291	1.194	1.171	1.123	0.881	0.778	1.073	18.55
8)		Trichlorofluorometh	8.480	7.086	7.290	6.751	6.128	4.365	6.683	20.57
9)	M	1,1-Dichloroethene	4.723	4.055	4.228	3.958	3.679	2.652	3.883	17.91
10)		Carbon Disulfide	6.813	6.283	6.034	5.703	5.211	3.702	5.624	19.29
11)		1,1,2-Cl 1,2,2-F et	4.222	3.467	3.625	3.412	3.092	2.258	3.346	19.43
12)		Acetone	5.792	5.221	4.387	4.056	3.784	2.756	4.333	24.83
13)	M	Methylene Chloride	2.176	1.803	1.941	1.786	1.679	1.222	1.768	17.96
14)		t-1,2-Dichloroethen	2.294	2.168	2.295	2.176	2.044	1.510	2.081	14.18
15)		1,1-Dichloroethane	5.107	4.215	4.490	4.266	3.799	2.669	4.091	19.99
16)		Vinyl Acetate	6.277	7.895	7.994	8.144	7.997	5.594	7.317	14.96
17)		c-1,2-Dichloroethen	2.276	2.260	2.310	2.215	2.033	1.458	2.092	15.56
18)		2-Butanone	0.806	1.087	1.008	1.024	0.993	0.728	0.941	14.98
19)		t-Butyl Methyl Ethe	6.574	6.045	6.460	6.203	6.001	4.494	5.963	12.65
20)	t	Chloroform	6.180	5.255	5.421	5.032	4.624	3.321	4.972	19.27
21)		1,1,1-Trichloroetha	6.033	5.272	5.620	5.312	4.995	3.655	5.148	15.78
22)		1,1-Dichloropropene	3.250	3.000	3.340	3.113	2.977	2.156	2.973	14.26
23)	t	Carbon Tetrachlorid	5.024	4.680	4.989	4.956	4.862	3.532	4.674	12.25
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.825	1.595	1.630	1.568	1.521	1.312	1.575	10.55
26)	S	1,2-Dichloroethane-	0.461	0.496	0.454	0.457	0.497	0.502	0.478	4.75
27)		1,2-Dichloroethane	1.054	1.007	0.949	0.941	0.913	0.758	0.937	10.83
28)	M	Trichloroethene	0.769	0.688	0.692	0.666	0.662	0.580	0.676	9.02
29)		1,2-Dichloropropane	0.640	0.593	0.616	0.595	0.599	0.521	0.594	6.72
30)		Bromodichloromethan	1.332	1.330	1.316	1.309	1.300	1.068	1.276	8.02
31)		Dibromomethane	0.640	0.662	0.646	0.653	0.634	0.537	0.629	7.32
32)		c-1,3-Dichloroprope	0.697	0.816	0.876	0.886	0.963	0.860	0.849	10.45
33)		4-Methyl-2-Pentanon	1.198	1.204	1.235	1.158	1.183	1.056	1.172	5.32
34)	S	Toluene-d8	0.717	0.730	0.826	0.749	0.767	0.815	0.767	5.82
35)	M	Toluene	1.771	1.549	1.719	1.496	1.537	1.395	1.578	8.96
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloroprope	0.893	1.277	1.115	1.351	1.490	1.270	1.233	16.73
38)		1,1,2-Trichloroetha	1.389	1.325	1.078	1.150	1.101	0.905	1.158	15.22
39)		1,3-Dichloropropane	1.513	1.569	1.455	1.545	1.499	1.258	1.473	7.63
40)		Tetrachloroethene	1.730	1.448	1.274	1.245	1.192	1.000	1.315	18.95
41)		2-Hexanone	0.551	0.831	0.847	0.875	0.935	0.808	0.808	16.48

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Initial Calibration

Calibration Files
1 =27DEC005.D 5 =27DEC006.D 10 =27DEC004.D
25 =27DEC007.D 100 =27DEC008.D 250 =27DEC009.D

		Compound	1	5	10	25	100	250	Avg	%RSD
42)		Dibromochloromethan	2.198	2.192	1.762	1.983	2.014	1.651	1.967	11.35
43)	t	1,2-Dibromoethane	1.718	1.912	1.561	1.682	1.662	1.367	1.650	10.93
44)		Chlorobenzene	2.337	2.130	1.940	1.764	1.794	1.574	1.923	14.29
45)		1,1,1,2-Tetrachloro	1.184	1.244	1.119	1.221	1.228	1.019	1.169	7.37
46)	T	Ethylbenzene	3.550	3.314	3.122	2.764	2.806	2.444	3.000	13.48
47)	T	p,&m-Xylene	2.699	2.662	2.485	2.148	2.139	1.777	2.318	15.49
48)	T	o-Xylene	3.137	2.954	2.520	2.368	2.374	2.061	2.569	15.66
49)		Styrene	1.271	1.438	1.506	1.275	1.410	1.299	1.366	7.20
50)		Bromoform	1.641	1.629	1.340	1.492	1.606	1.336	1.507	9.39
51)		Isopropyl benzene	3.195	2.916	2.880	2.702	2.557	2.238	2.748	12.01
52)	M	1,1,2,2-Tetrachloro	2.936	2.896	1.984	2.009	1.997	1.675	2.250	23.61
53)	S	4-Bromofluorobenzen	0.333	0.356	0.368	0.351	0.343	0.384	0.356	5.02
54)		Benzyl Chloride	1.041	1.154	0.986	0.960	1.604	1.671	1.236	25.80
55)		1,2,3-Trichloroprop	0.676	0.720	0.653	0.662	0.665	0.573	0.658	7.25
56)		n-Propyl Benzene	3.080	2.782	3.046	2.599	2.679	2.423	2.768	9.30
57)		Bromobenzene	1.629	1.574	1.747	1.511	1.543	1.339	1.557	8.69
58)		4-Ethyl Toluene	3.061	3.295	2.820	2.355	2.625	2.468	2.771	12.98
59)	T	1,3,5-Trimethylbenz	4.615	4.329	3.259	3.003	3.074	2.566	3.474	23.34
60)		2-Chlorotoluene	3.060	2.928	2.758	2.534	2.482	2.044	2.634	13.84
61)		4-Chlorotoluene	2.377	2.019	2.228	1.815	1.985	1.851	2.046	10.67
62)		tert-Butylbenzene	2.992	2.661	2.918	2.685	2.727	2.415	2.733	7.49
63)		1,2,4-Trimethylbenz	3.965	3.981	3.137	2.594	2.800	2.414	3.149	21.66
64)		sec-Butylbenzene	3.905	3.328	3.333	2.843	2.774	2.452	3.106	16.71
65)		p-Isopropyltoluene	2.613	2.502	2.661	2.248	2.379	2.145	2.425	8.42
66)		1,3-Dichlorobenzene	1.792	1.766	1.419	1.191	1.359	1.238	1.461	17.77
67)		1,4-Dichlorobenzene	1.811	1.716	1.390	1.125	1.325	1.235	1.434	18.98
68)		n-Butylbenzene	2.875	2.576	2.776	2.131	2.300	2.065	2.454	13.81
69)		1,2-Dichlorobenzene	1.941	1.758	1.369	1.203	1.359	1.221	1.475	20.58
70)		1,2-Dibromo-3-chlor	0.419	0.567	0.479	0.521	0.611	0.524	0.520	12.89
71)		1,2,4-Trichlorobenz	0.615	0.979	0.963	0.822	1.183	1.046	0.935	20.96
72)		Hexachlorobutadiene	0.927	1.057	0.898	0.826	0.989	0.857	0.926	9.23

(#) = Out of Range

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\AL111227.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Thu Dec 29 15:56:40 2011
Response via : Initial Calibration

Calibration Files
1 =27DEC005.D 5 =27DEC006.D 10 =27DEC004.D
25 =27DEC007.D 100 =27DEC008.D 250 =27DEC009.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------	----------	ISTD	----------	----------	----------		
2)		Propene		1.843	1.874	1.656	1.446	1.067	1.577	21.09
3)		isobutane		0.131	0.093	0.075	0.076	0.053	0.086	33.63
4)		1,3-Butadiene	1.180	1.276	1.392	1.336	1.282	0.929	1.232	13.36
5)		Methanol	3.800	2.017	0.649	0.516	0.407	0.285	1.279	108.49
6)		Acetaldehyde		0.914	0.609	0.515	0.492	0.345	0.575	36.80
7)		Ethanol	1.668	1.309	0.699	0.718	0.684	0.552	0.938	47.42
8)		Vinyl Bromide	1.718	1.629	1.826	1.709	1.648	1.225	1.626	12.80
9)		Isopropanol	4.157	3.826	3.819	3.772	3.854	2.849	3.713	11.99
10)		Acrolein	0.466	0.732	0.785	0.756	0.726	0.549	0.669	19.38
11)		t-Butanol	3.387	3.261	3.653	3.910	3.886	2.951	3.508	10.75
12)		Allyl Chloride	2.318	2.379	2.693	2.512	2.456	1.848	2.368	12.04
13)		Acrylonitrile		1.163	1.572	1.599	1.404	1.083	1.364	17.15
14)		t-Butyl methyl ethe	6.392	6.045	6.460	6.202	5.997	4.501	5.933	12.22
15)		n-Hexane	3.601	3.315	3.700	3.365	3.173	2.357	3.252	14.73
16)		Isopropyl ether	6.897	6.273	7.117	6.481	6.059	4.262	6.181	16.47
17)		t-Butyl ethyl ether	2.408	2.129	2.428	2.335	2.338	1.803	2.240	10.67
18)		Ethyl Acetate		0.436	0.502	0.517	0.504	0.367	0.465	13.61
19)		2,2-Dichloropropane	3.105	3.127	3.453	3.397	3.415	2.409	3.151	12.49
20)		Tetrahydrofuran	1.208	1.070	1.050	1.018	0.971	0.741	1.010	15.22
21)		Cyclohexane	3.797	3.616	3.879	3.662	3.371	2.461	3.464	15.06
22)		2,2,4-Trimethylpent	1.154	0.972	1.108	0.976	0.902	0.642	0.959	E1 18.8
23)	I	1,4-Difluorobenzene	----------	----------	ISTD	----------	----------	----------		
24)	S	1,2-Dichloroethane-	0.479	0.530	0.449	0.518	0.502	0.464	0.490	6.46
25)		t-Amyl methyl ether	1.168	1.205	1.249	1.331	1.407	1.246	1.267	6.89
26)		Heptane	0.411	0.418	0.485	0.412	0.426	0.390	0.424	7.64
27)		1,4-Dioxane	0.438	0.398	0.384	0.395	0.399	0.340	0.393	8.05
28)		2-chloroethylvinyle			0.001	0.001	0.005	0.006	0.003	73.65
29)	S	Toluene-d8	0.718	0.732	0.811	0.752	0.772	0.811	0.766	5.14
30)		Chlorobenzene-d5	----------	----------	ISTD	----------	----------	----------		
31)		Cyclohexanone		0.930	0.948	1.063	1.044	0.890	0.975	7.70
32)	S	4-Bromofluorobenzen	0.518	0.556	0.559	0.562	0.645	0.732	0.595	13.25
33)		Dicyclopentadiene		0.020	0.026	0.026	0.028	0.024	0.025	12.54
34)		Naphthalene	1.453	2.495	2.298	1.997	2.979	2.589	2.302	22.92
35)		1,2,3-Trichlorobenz				0.001	0.006	0.006	0.004	66.57

(#) = Out of Range

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:49:34 2011
Response Via : Initial Calibration

Calibration Files
1 =12DEC039.D 5 =12DEC038.D 10 =12DEC022.D 25 =12DEC023.D
100 =12DEC024.D 250 =12DEC025.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Dichlorodifluo...	7.326	7.093	7.651	6.731	5.659	2.813	6.212	28.99
3)		Chloromethane	2.676	1.889	1.935	1.746	1.622	1.052	1.820	28.92
4)		1,2-Cl-1,1,2,2...	7.128	6.817	7.362	6.642	5.644	3.192	6.131	25.39
5)		Vinyl Chloride	1.744	1.965	1.948	1.824	1.729	1.171	1.730	16.84
6)		Bromomethane	1.724	1.364	1.299	1.286	1.087	0.837	1.266	23.34
7)		Chloroethane	0.836	0.757	0.821	0.816	0.693	0.520	0.740	16.29
8)		Trichlorofluor...	7.117	6.634	7.403	5.250	6.093	3.529	6.005	23.90
9)	M	1,1-Dichloroet...	4.198	3.961	4.202	3.807	3.353	2.090	3.602	22.33
10)		Carbon Disulfide	7.269	6.847	7.206	6.683	5.626	3.265	6.149	24.91
11)		1,1,2-Cl 1,2,2...	3.652	3.442	3.717	3.388	3.129	1.987	3.219	19.84
12)		Acetone	4.809	3.781	3.391	2.938	2.587		3.501	24.55
13)	M	Methylene Chlo...	2.216	2.036	2.321	2.043	1.947	1.282	1.974	18.51
14)		t-1,2-Dichloro...	1.960	2.114	2.264	2.174	2.084	1.382	1.996	15.90
15)		1,1-Dichloroet...	4.338	4.333	4.610	4.222	3.860	2.366	3.955	20.62
16)		Vinyl Acetate	2.497	2.556	2.798	2.611	2.635	1.816	2.485	13.81
17)		c-1,2-Dichloro...	2.146	2.306	2.398	2.315	2.162	1.385	2.119	17.56
18)		2-Butanone	1.073	1.176	1.191	1.146	1.038	0.633	1.043	20.09
19)		t-Butyl Methyl...	4.074	4.567	4.633	4.335	3.771	2.608	3.998	18.82
20)	t	Chloroform	5.097	5.068	5.363	5.018	4.625	2.810	4.663	20.12
21)		1,1,1-Trichlor...	4.358	4.531	5.152	4.911	4.822	3.094	4.478	16.38
22)		1,1-Dichloropr...	2.778	2.815	3.355	3.146	2.885	1.797	2.796	19.21
23)	t	Carbon Tetrach...	1.301	2.454	3.123	3.393	3.962	2.632	2.811	32.60
24)	I	1,4-Difluorobenzene	----------ISTD----------							
25)	T	Benzene	1.673	1.571	1.647	1.521	1.438	1.062	1.486	15.09
26)	S	1,2-Dichloroet...	0.301	0.327	0.315	0.327	0.369	0.451	0.348	15.86
27)		1,2-Dichloroet...	0.591	0.640	0.658	0.631	0.614	0.529	0.611	7.53
28)	M	Trichloroethene	0.989	0.830	0.801	0.718	0.675	0.531	0.757	20.50
29)		1,2-Dichloropr...	0.523	0.543	0.569	0.542	0.532	0.450	0.526	7.71
30)		Bromodichlorom...	0.743	0.911	0.972	0.962	0.981	0.787	0.893	11.51
31)		Dibromomethane	0.408	0.500	0.524	0.517	0.511	0.437	0.483	9.97
32)		c-1,3-Dichloro...	0.431	0.588	0.633	0.671	0.760	0.640	0.620	17.57
33)		4-Methyl-2-Pen...	0.790	0.837	0.837	0.808	0.841	0.692	0.801	7.14
34)	S	Toluene-d8	0.777	0.779	0.750	0.798	0.800	0.857	0.794	4.50
35)	M	Toluene	1.678	1.686	1.666	1.665	1.632	1.197	1.587	12.11
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)		t-1,3-Dichloro...	0.360	0.567	0.644	0.767	0.991	0.859	0.698	32.08
38)		1,1,2-Trichlor...	1.037	1.099	1.104	1.012	0.977	0.777	1.001	12.04
39)		1,3-Dichloropr...	1.132	1.247	1.397	1.325	1.269	1.001	1.228	11.56
40)		Tetrachloroethene	1.141	1.204	1.214	1.123	1.087	0.856	1.104	11.86
41)		2-Hexanone	0.681	0.831	0.855	0.808	0.826	0.689	0.782	9.76

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : TO111212.M
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

42)		Dibromochlorom...	0.916	1.297	1.333	1.366	1.459	1.131	1.250	15.69
43)	t	1,2-Dibromoethane	1.283	1.431	1.441	1.390	1.444	1.110	1.350	9.79
44)		Chlorobenzene	2.054	2.107	1.944	1.863	1.871	1.420	1.877	13.00
45)		1,1,1,2-Tetrac...	0.593	0.765	0.865	0.849	0.906	0.757	0.789	14.22
46)	T	Ethylbenzene	2.598	2.813	2.687	2.688	2.599	1.792	2.530	14.61
47)	T	p,&m-Xylene	2.140	2.292	2.081	1.965	1.729	1.047	1.876	23.86
48)	T	o-Xylene	2.031	2.168	1.862	1.836	1.917	1.492	1.884	12.09
49)		Styrene	1.242	1.305	1.262	1.284	1.436	1.175	1.284	6.77
50)		Bromoform	0.587	0.952	0.886	0.958	1.177	0.963	0.920	20.75
51)		Isopropyl benzene	1.953	2.008	2.179	2.079	2.005	1.584	1.968	10.35
52)	M	1,1,2,2-Tetrac...	0.981	1.602	1.217	1.301	1.540	1.259	1.317	17.23
53)	S	4-Bromofluorob...	0.344	0.335	0.342	0.342	0.337	0.334	0.339	1.21
54)		Benzyl Chloride	0.993	0.657	0.428	0.426	1.218	1.157	0.813	43.88
55)		1,2,3-Trichlor...	0.487	0.563	0.584	0.546	0.562	0.495	0.539	7.31
56)		n-Propyl Benzene	2.702	2.571	2.748	2.359	2.187	1.542	2.351	19.12
57)		Bromobenzene	1.494	1.467	1.588	1.486	1.436	1.084	1.426	12.28
58)		4-Ethyl Toluene	3.523	3.649	2.888	2.456	2.324	1.700	2.757	27.12
59)	T	1,3,5-Trimethy...	3.331	3.902	3.129	2.798	2.592	1.647	2.900	26.34
60)		2-Chlorotoluene	2.367	2.298	2.303	2.123	1.955	1.383	2.072	17.83
61)		4-Chlorotoluene	2.121	1.998	2.175	1.884	1.825	1.323	1.888	16.28
62)		tert-Butylbenzene	2.329	2.624	2.581	2.427	2.296	1.683	2.323	14.63
63)		1,2,4-Trimethy...	3.231	3.930	2.961	2.683	2.563	1.623	2.832	27.07
64)		sec-Butylbenzene	3.196	3.199	3.212	2.600	2.065	1.430	2.617	28.30
65)		p-Isopropyltol...	2.289	2.732	2.857	2.465	1.911	1.317	2.262	25.27
66)		1,3-Dichlorobe...	2.059	1.883	1.339	1.158	1.239		1.536	26.52
67)		1,4-Dichlorobe...	2.141	1.958	1.422	1.161	1.246	0.940	1.478	31.99
68)		n-Butylbenzene	2.442	3.015	3.087	2.732	2.182	1.402	2.477	25.34
69)		1,2-Dichlorobe...	1.894	1.724	1.182	0.993	1.127		1.384	28.80
70)		1,2-Dibromo-3-...	0.304	0.258	0.226	0.231	0.343	0.331	0.282	17.93
71)		1,2,4-Trichlor...	0.891	1.045	0.637	0.659	1.276	0.987	0.916	26.56
72)		Hexachlorobuta...	0.880	0.930	0.561	0.515	0.717	0.564	0.695	25.58

(#) = Out of Range

Response Factor Report Instrument #1

Method Path : C:\GCMS-C\methods\
Method File : AL111212.M
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Tue Dec 27 13:28:01 2011
Response Via : Initial Calibration

Calibration Files
1 =12DEC039.D 5 =12DEC038.D 10 =12DEC022.D 25 =12DEC023.D
100 =12DEC024.D 250 =12DEC025.D

		Compound	1	5	10	25	100	250	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)		Propene	1.592	1.493	1.467	1.371	1.227	0.763	1.319	22.68
3)		isobutane	1.728	1.357	1.634	1.271	1.471	0.941	1.400	20.09
4)		1,3-Butadiene	0.774	0.965	1.032	0.980	0.959	0.689	0.900	15.08
5)		Methanol		1.151	0.607	0.538	0.419	0.264	0.596	56.48
6)		Acetaldehyde		0.948	0.756	0.657	0.524	0.326	0.642	36.52
7)		Ethanol		0.797	0.797	0.587	0.730		0.728	13.60
8)		Vinyl Bromide	1.852	1.307	2.131	1.473	1.907	0.887	1.593	28.76
9)		Isopropanol		3.147	3.068	2.876	2.662	1.763	2.703	20.64
10)		Acrolein	0.643	0.830	0.762	0.697	0.714	0.516	0.694	15.48
11)		t-Butanol	2.587	2.873	2.931	2.868	2.396	1.360	2.503	23.83
12)		Allyl Chloride	1.258	1.520	1.684	1.686	1.724	1.143	1.503	16.44
13)		Acrylonitrile	0.935	1.170	1.395	1.381	1.375	0.914	1.195	18.88
14)		t-Butyl methyl...	4.074	4.567	4.633	4.335	3.772	2.614	3.999	18.75
15)		n-Hexane	3.005	3.301	3.637	3.526	3.335	2.147	3.159	17.12
16)		Isopropyl ether	4.794	5.059	5.713	5.417	5.045	2.974	4.834	19.99
17)		t-Butyl ethyl ...	1.174	1.564	1.510	1.697	1.717	1.328	1.498	14.19
18)		Ethyl Acetate		0.395	0.479	0.521	0.507	0.340	0.448	17.36
19)		2,2-Dichloropr...	0.490	0.743	0.937	1.116	1.455	1.260	1.000	35.18
20)		Tetrahydrofuran	1.031	1.077	1.143	1.102	1.061	0.728	1.024	14.64
21)		Cyclohexane	2.867	3.165	3.627	3.439	3.261	2.059	3.070	18.16
22)		2,2,4-Trimethy...	0.870	0.899	1.051	0.986	0.880	0.496	0.864 E1	22.37
23)	I	1,4-Difluorobenzene	----------ISTD----------							
24)	S	1,2-Dichloroet...	0.301	0.326	0.315	0.329	0.369	0.449	0.348	15.57
25)		t-Amyl methyl ...	0.541	0.630	0.596	0.676	0.745	0.775	0.660	13.54
26)		Heptane	0.349	0.413	0.430	0.433	0.452	0.402	0.413	8.72
27)		1,4-Dioxane	0.343	0.368	0.380	0.373	0.400	0.340	0.367	6.24
28)		2-chloroethylv...					0.001	0.001	0.001	11.84
29)	S	Toluene-d8	0.777	0.779	0.750	0.798	0.800	0.857	0.794	4.50
30)		Chlorobenzene-d5	----------ISTD----------							
31)		Cyclohexanone	0.467	0.628	0.773	0.768	0.786	0.655	0.679	18.19
32)	S	4-Bromofluorob...	0.344	0.336	0.342	0.342	0.337	0.336	0.339	1.04
33)		Dicyclopentadiene		0.009	0.015	0.013	0.012	0.011	0.012	18.24
34)		Naphthalene	1.793	2.449	1.427	1.575	3.074	1.990	2.051	29.98
35)		1,2,3-Trichlor...	0.891	1.046	0.637	0.658	1.278	0.993	0.917	26.64

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111226\
Data File : 29DEC007.D
Acq On : 29 Dec 2011 1:44 pm
Operator : VM
Sample : CCV
Misc : 50ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 14:10:21 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 27 13:49:34 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	94	-0.02
2		Dichlorodifluoromethane (12	6.212	7.053	-13.5	86	0.00
3		Chloromethane	1.820	1.848	-1.5	90	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.131	6.892	-12.4	88	0.00
5		Vinyl Chloride	1.730	1.911	-10.5	92	0.00
6		Bromomethane	1.266	1.223	3.4	88	0.00
7		Chloroethane	0.740	0.762	-3.0	87	-0.01
8		Trichlorofluoromethane (11)	6.005	6.801	-13.3	86	-0.01
9	M	1,1-Dichloroethene	3.602	4.137	-14.9	92	0.00
10		Carbon Disulfide	6.149	7.282	-18.4	95	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	3.219	3.533	-9.8	89	-0.02
12		Acetone	3.196	3.593	-12.4	99	-0.02
13	M	Methylene Chloride	1.974	2.234	-13.2	90	0.00
14		t-1,2-Dichloroethene	1.996	2.268	-13.6	94	-0.01
15		1,1-Dichloroethane	3.955	4.372	-10.5	89	-0.02
16		Vinyl Acetate	2.485	2.662	-7.1	89	-0.02
17		c-1,2-Dichloroethene	2.119	2.416	-14.0	94	-0.01
18		2-Butanone	1.043	1.169	-12.1	92	-0.02
19		t-Butyl Methyl Ether	3.998	4.376	-9.5	89	0.00
20	t	Chloroform	4.663	5.208	-11.7	91	-0.02
21		1,1,1-Trichloroethane	4.478	4.790	-7.0	87	0.00
22		1,1-Dichloropropene	2.796	3.382	-21.0	95	0.00
23	t	Carbon Tetrachloride	2.811	3.065	-9.0	92	-0.01
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
25	T	Benzene	1.486	1.619	-9.0	92	-0.01
26	S	1,2-Dichloroethane-d4	0.348	0.303	12.9	90	-0.01
27		1,2-Dichloroethane	0.611	0.613	-0.3	87	0.00
28	M	Trichloroethene	0.757	0.830	-9.6	97	0.00
29		1,2-Dichloropropane	0.526	0.573	-8.9	94	0.00
30		Bromodichloromethane	0.893	0.970	-8.6	93	0.00
31		Dibromomethane	0.483	0.523	-8.3	93	0.00
32		c-1,3-Dichloropropene	0.620	0.631	-1.8	93	0.00
33		4-Methyl-2-Pentanone	0.801	0.838	-4.6	93	0.00
34	S	Toluene-d8	0.794	0.795	-0.1	99	0.00
35	M	Toluene	1.587	1.763	-11.1	99	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111226\
Data File : 29DEC007.D
Acq On : 29 Dec 2011 1:44 pm
Operator : VM
Sample : CCV
Misc : 50ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 14:10:21 2011
Quant Method : C:\GCMS-C\METHODS\TO111212.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Tue Dec 27 13:49:34 2011
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37		t-1,3-Dichloropropene	0.698	0.558	20.1	89	0.00
38		1,1,2-Trichloroethane	1.001	0.978	2.3	91	0.00
39		1,3-Dichloropropane	1.228	1.241	-1.1	91	0.00
40		Tetrachloroethene	1.104	1.075	2.6	91	0.00
41		2-Hexanone	0.782	0.779	0.4	94	0.00
42		Dibromochloromethane	1.250	1.221	2.3	94	0.00
43	t	1,2-Dibromoethane	1.350	1.253	7.2	89	0.00
44		Chlorobenzene	1.877	1.833	2.3	97	0.00
45		1,1,1,2-Tetrachloroethane	0.789	0.768	2.7	91	0.00
46	T	Ethylbenzene	2.530	2.381	5.9	91	0.00
47	T	p,&m-Xylene	1.876	1.915	-2.1	95	0.00
48	T	o-Xylene	1.884	1.836	2.5	101	0.00
49		Styrene	1.284	1.183	7.9	96	0.00
50		Bromoform	0.920	0.770	16.3	89	0.00
51		Isopropyl benzene	1.968	2.033	-3.3	96	0.00
52	M	1,1,2,2-Tetrachloroethane	1.317	1.081	17.9	91	0.00
53	S	4-Bromofluorobenzene	0.339	0.338	0.3	101	0.00
54		Benzyl Chloride	0.813	0.366	55.0#	88	0.00
55		1,2,3-Trichloropropane	0.539	0.526	2.4	93	0.00
56		n-Propyl Benzene	2.351	2.955	-25.7	110	0.00
57		Bromobenzene	1.426	1.419	0.5	92	0.00
58		4-Ethyl Toluene	2.757	3.030	-9.9	108	0.00
59	T	1,3,5-Trimethylbenzene	2.900	2.917	-0.6	96	0.00
60		2-Chlorotoluene	2.072	2.215	-6.9	99	0.00
61		4-Chlorotoluene	1.888	2.149	-13.8	101	0.00
62		tert-Butylbenzene	2.323	2.562	-10.3	102	0.00
63		1,2,4-Trimethylbenzene	2.832	2.857	-0.9	99	0.00
64		sec-Butylbenzene	2.617	3.369	-28.7	108	0.00
65		p-Isopropyltoluene	2.262	3.040	-34.4#	109	0.00
66		1,3-Dichlorobenzene	1.438	1.336	7.1	102	0.00
67		1,4-Dichlorobenzene	1.478	1.381	6.6	100	0.00
68		n-Butylbenzene	2.477	2.933	-18.4	98	0.00
69		1,2-Dichlorobenzene	1.303	1.190	8.7	103	0.00
70		1,2-Dibromo-3-chloropropane	0.282	0.193	31.6#	88	0.00
71		1,2,4-Trichlorobenzene	0.916	0.570	37.8#	92	0.00
72		Hexachlorobutadiene	0.695	0.535	23.0	98	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111226\
Data File : 29DEC007.D
Acq On : 29 Dec 2011 1:44 pm
Operator : VM
Sample : CCV
Misc : 50ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 07:31:51 2011
Quant Method : C:\GCMS-C\methods\AL111212.M
Quant Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
QLast Update : Tue Dec 27 13:28:01 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	94	0.00
2		Propene	1.319	1.449	-9.9	93	-0.02
3		isobutane	1.400	1.622	-15.9	93	-0.01
4		1,3-Butadiene	0.900	1.058	-17.6	96	-0.02
5		Methanol	0.596	0.867	-45.5#	134	-0.03
6		Acetaldehyde	0.642	0.813	-26.6	101	-0.04
7		Ethanol	0.728	1.747	-140.0#	206#	0.00
8		Vinyl Bromide	1.593	2.025	-27.1	89	-0.01
9		Isopropanol	2.703	3.194	-18.2	98	0.00
10		Acrolein	0.694	0.711	-2.4	88	-0.02
11		t-Butanol	2.503	2.733	-9.2	87	-0.03
12		Allyl Chloride	1.503	1.645	-9.4	92	0.00
13		Acrylonitrile	1.195	1.458	-22.0	98	-0.01
14		t-Butyl methyl ether	3.999	4.376	-9.4	89	0.00
15		n-Hexane	3.159	3.676	-16.4	95	0.00
16		Isopropyl ether	4.834	5.545	-14.7	91	-0.01
17		t-Butyl ethyl ether	1.498	1.337	10.7	83	0.00
18		Ethyl Acetate	0.448	0.338	24.6	66	0.01
19		2,2-Dichloropropane	1.000	0.637	36.3#	64	0.00
20		Tetrahydrofuran	1.024	1.126	-10.0	92	0.00
21		Cyclohexane	3.070	3.656	-19.1	95	0.00
22		2,2,4-Trimethylpentane	8.636	10.602	-22.8	95	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
24	S	1,2-Dichloroethane-d4	0.348	0.303	12.9	90	0.00
25		t-Amyl methyl ether	0.660	0.527	20.2	83	0.00
26		Heptane	0.413	0.452	-9.4	98	0.00
27		1,4-Dioxane	0.367	0.373	-1.6	92	-0.01
28		2-chloroethylvinylether	0.001	0.000	100.0#	0#	-11.72#
29	S	Toluene-d8	0.794	0.795	-0.1	99	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
31		Cyclohexanone	0.679	0.699	-2.9	93	0.00
32	S	4-Bromofluorobenzene	0.339	0.338	0.3	101	0.00
33		Dicyclopentadiene	0.012	0.012	0.0	85	0.00
34		Naphthalene	2.051	1.308	36.2#	94	0.00
35		1,2,3-Trichlorobenzene	0.917	0.570	37.8#	92	0.00

Evaluate Continuing Calibration Report

Data Path : C:\GCMS-C\data\111226\
Data File : 29DEC007.D
Acq On : 29 Dec 2011 1:44 pm
Operator : VM
Sample : CCV
Misc : 50ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 07:31:51 2011
Quant Method : C:\GCMS-C\methods\AL111212.M
Quant Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
QLast Update : Tue Dec 27 13:28:01 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\29DEC003.D
Acq On : 29 Dec 2011 5:38
Sample : CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 15
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	112	0.00
2		Dichlorodifluoromethane (12	6.907	6.852	0.8	103	0.00
3		Chloromethane	2.023	1.875	7.3	93	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.127	6.006	2.0	101	0.00
5		Vinyl Chloride	1.893	1.746	7.8	97	0.00
6		Bromomethane	1.571	1.653	-5.2	101	0.00
7		Chloroethane	1.073	1.130	-5.3	108	0.00
8		Trichlorofluoromethane (11)	6.683	6.669	0.2	103	0.00
9	M	1,1-Dichloroethene	3.883	3.769	2.9	100	0.00
10		Carbon Disulfide	5.624	5.802	-3.2	108	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	3.346	3.273	2.2	101	0.00
12		Acetone	4.333	3.574	17.5	91	0.00
13	M	Methylene Chloride	1.768	1.826	-3.3	105	0.00
14		t-1,2-Dichloroethene	2.081	2.258	-8.5	110	0.00
15		1,1-Dichloroethane	4.091	4.224	-3.3	105	0.00
16		Vinyl Acetate	7.317	7.389	-1.0	104	0.00
17		c-1,2-Dichloroethene	2.092	2.312	-10.5	112	0.00
18		2-Butanone	0.941	1.032	-9.7	115	0.00
19		t-Butyl Methyl Ether	5.963	6.025	-1.0	105	0.00
20	t	Chloroform	4.972	5.034	-1.2	104	0.00
21		1,1,1-Trichloroethane	5.148	5.112	0.7	102	0.00
22		1,1-Dichloropropene	2.973	3.154	-6.1	106	0.00
23	t	Carbon Tetrachloride	4.674	4.543	2.8	102	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
25	T	Benzene	1.575	1.595	-1.3	102	0.00
26	S	1,2-Dichloroethane-d4	0.478	0.463	3.1	106	0.00
27		1,2-Dichloroethane	0.937	0.949	-1.3	104	0.00
28	M	Trichloroethene	0.676	0.680	-0.6	103	0.00
29		1,2-Dichloropropane	0.594	0.580	2.4	98	0.00
30		Bromodichloromethane	1.276	1.243	2.6	99	0.00
31		Dibromomethane	0.629	0.665	-5.7	107	0.00
32		c-1,3-Dichloropropene	0.849	0.840	1.1	100	0.00
33		4-Methyl-2-Pentanone	1.172	1.066	9.0	90	0.00
34	S	Toluene-d8	0.767	0.731	4.7	92	0.00
35	M	Toluene	1.578	1.459	7.5	89	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
37		t-1,3-Dichloropropene	1.233	1.265	-2.6	101	0.00
38		1,1,2-Trichloroethane	1.158	1.205	-4.1	100	0.00
39		1,3-Dichloropropane	1.473	1.569	-6.5	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\29DEC003.D
Acq On : 29 Dec 2011 5:38
Sample : CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 15
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Tetrachloroethene	1.315	1.326	-0.8	93	0.00
41		2-Hexanone	0.808	0.807	0.1	85	0.00
42		Dibromochloromethane	1.967	1.949	0.9	99	0.00
43	t	1,2-Dibromoethane	1.650	1.721	-4.3	98	0.00
44		Chlorobenzene	1.923	1.793	6.8	82	0.00
45		1,1,1,2-Tetrachloroethane	1.169	1.260	-7.8	100	0.00
46	T	Ethylbenzene	3.000	2.788	7.1	80	0.00
47	T	p,&m-Xylene	2.318	2.227	3.9	80	0.00
48	T	o-Xylene	2.569	2.455	4.4	87	0.00
49		Styrene	1.366	1.208	11.6	71	0.00
50		Bromoform	1.507	1.352	10.3	90	0.00
51		Isopropyl benzene	2.748	2.849	-3.7	88	0.00
52	M	1,1,2,2-Tetrachloroethane	2.250	2.104	6.5	94	0.00
53	S	4-Bromofluorobenzene	0.356	0.350	1.7	85	0.00
54		Benzyl Chloride	1.236	0.772	37.5#	70	0.00
55		1,2,3-Trichloropropane	0.658	0.680	-3.3	93	0.01
56		n-Propyl Benzene	2.768	2.834	-2.4	83	0.00
57		Bromobenzene	1.557	1.471	5.5	75	0.00
58		4-Ethyl Toluene	2.771	2.772	-0.0	88	0.00
59	T	1,3,5-Trimethylbenzene	3.474	3.615	-4.1	99	0.00
60		2-Chlorotoluene	2.634	2.593	1.6	84	0.00
61		4-Chlorotoluene	2.046	1.915	6.4	77	0.00
62		tert-Butylbenzene	2.733	2.728	0.2	83	0.00
63		1,2,4-Trimethylbenzene	3.149	3.132	0.5	89	0.00
64		sec-Butylbenzene	3.106	3.068	1.2	82	0.00
65		p-Isopropyltoluene	2.425	2.674	-10.3	90	0.00
66		1,3-Dichlorobenzene	1.461	1.319	9.7	83	0.00
67		1,4-Dichlorobenzene	1.434	1.218	15.1	78	0.00
68		n-Butylbenzene	2.454	2.500	-1.9	80	0.00
69		1,2-Dichlorobenzene	1.475	1.305	11.5	85	0.00
70		1,2-Dibromo-3-chloropropane	0.520	0.449	13.7	83	0.00
71		1,2,4-Trichlorobenzene	0.935	0.803	14.1	74	0.00
72		Hexachlorobutadiene	0.926	0.725	21.7	72	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\29DEC003.D
Acq On : 29 Dec 2011 5:38
Sample : CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 15
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\AL111227.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Thu Dec 29 15:56:40 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	112	0.00
2		Propene	1.577	1.626	-3.1	97	0.00
3		isobutane	0.086	0.048	44.2#	58	0.01
4		1,3-Butadiene	1.232	1.187	3.7	96	0.00
5		Methanol	1.279	0.502	60.8#	87	0.00
6		Acetaldehyde	0.575	0.480	16.5	88	0.00
7		Ethanol	0.938	1.097	-17.0	176#	0.00
8		Vinyl Bromide	1.626	1.749	-7.6	107	0.00
9		Isopropanol	3.713	3.215	13.4	94	0.00
10		Acrolein	0.669	0.641	4.2	91	0.01
11		t-Butanol	3.508	3.464	1.3	106	0.00
12		Allyl Chloride	2.368	2.345	1.0	98	0.00
13		Acrylonitrile	1.364	1.488	-9.1	106	0.00
14		t-Butyl methyl ether	5.933	6.021	-1.5	104	0.00
15		n-Hexane	3.252	3.296	-1.4	100	0.00
16		Isopropyl ether	6.181	6.231	-0.8	98	0.00
17		t-Butyl ethyl ether	2.240	2.347	-4.8	108	0.00
18		Ethyl Acetate	0.465	0.463	0.4	103	0.00
19		2,2-Dichloropropane	3.151	3.177	-0.8	103	0.00
20		Tetrahydrofuran	1.010	1.025	-1.5	109	0.00
21		Cyclohexane	3.464	3.638	-5.0	105	0.00
22		2,2,4-Trimethylpentane	9.589	9.724	-1.4	98	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
24	S	1,2-Dichloroethane-d4	0.490	0.459	6.3	105	0.00
25		t-Amyl methyl ether	1.267	1.285	-1.4	106	0.00
26		Heptane	0.424	0.404	4.7	86	0.00
27		1,4-Dioxane	0.393	0.393	0.0	105	0.00
28		2-chloroethylvinylether	0.003	0.000	100.0#	0#	-11.84#
29	S	Toluene-d8	0.766	0.732	4.4	93	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
31		Cyclohexanone	0.975	1.027	-5.3	95	0.00
32	S	4-Bromofluorobenzene	0.595	0.560	5.9	88	0.00
33		Dicyclopentadiene	0.025	0.028	-12.0	96	0.00
34		Naphthalene	2.302	1.879	18.4	72	0.00
35		1,2,3-Trichlorobenzene	0.004	0.000	100.0#	0#	-22.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\30DEC003.D
Acq On : 30 Dec 2011 2:03
Sample : CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 13
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	106	0.00
2		Dichlorodifluoromethane (12	6.907	6.963	-0.8	99	-0.01
3		Chloromethane	2.023	1.797	11.2	84	0.00
4		1,2-Cl-1,1,2,2-F ethane (11	6.127	6.031	1.6	97	-0.01
5		Vinyl Chloride	1.893	1.777	6.1	94	0.00
6		Bromomethane	1.571	1.645	-4.7	96	-0.01
7		Chloroethane	1.073	1.127	-5.0	102	0.00
8		Trichlorofluoromethane (11)	6.683	6.992	-4.6	102	0.00
9	M	1,1-Dichloroethene	3.883	3.810	1.9	96	0.00
10		Carbon Disulfide	5.624	5.773	-2.6	102	0.00
11		1,1,2-Cl 1,2,2-F ethane (11	3.346	3.567	-6.6	105	0.00
12		Acetone	4.333	3.746	13.5	91	-0.01
13	M	Methylene Chloride	1.768	1.884	-6.6	103	0.00
14		t-1,2-Dichloroethene	2.081	2.192	-5.3	102	0.00
15		1,1-Dichloroethane	4.091	4.256	-4.0	101	0.00
16		Vinyl Acetate	7.317	6.849	6.4	91	0.00
17		c-1,2-Dichloroethene	2.092	2.365	-13.0	109	0.00
18		2-Butanone	0.941	0.973	-3.4	103	0.00
19		t-Butyl Methyl Ether	5.963	6.137	-2.9	101	-0.01
20	t	Chloroform	4.972	5.103	-2.6	100	0.00
21		1,1,1-Trichloroethane	5.148	5.274	-2.4	100	0.00
22		1,1-Dichloropropene	2.973	3.220	-8.3	103	0.00
23	t	Carbon Tetrachloride	4.674	4.733	-1.3	101	0.00
24	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
25	T	Benzene	1.575	1.510	4.1	98	0.00
26	S	1,2-Dichloroethane-d4	0.478	0.424	11.3	98	0.00
27		1,2-Dichloroethane	0.937	0.878	6.3	98	0.00
28	M	Trichloroethene	0.676	0.677	-0.1	103	0.00
29		1,2-Dichloropropane	0.594	0.545	8.2	93	0.00
30		Bromodichloromethane	1.276	1.182	7.4	95	0.00
31		Dibromomethane	0.629	0.627	0.3	102	0.00
32		c-1,3-Dichloropropene	0.849	0.752	11.4	91	0.00
33		4-Methyl-2-Pentanone	1.172	0.962	17.9	82	0.00
34	S	Toluene-d8	0.767	0.768	-0.1	98	0.00
35	M	Toluene	1.578	1.362	13.7	84	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
37		t-1,3-Dichloropropene	1.233	1.003	18.7	89	0.00
38		1,1,2-Trichloroethane	1.158	1.054	9.0	97	0.00
39		1,3-Dichloropropane	1.473	1.331	9.6	90	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\30DEC003.D Vial: 13
Acq On : 30 Dec 2011 2:03 Operator: DT
Sample : CCV Inst : GC/MS 597
Misc : 50ML Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO111227.M (RTE Integrator)
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
Last Update : Tue Dec 27 14:09:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Tetrachloroethene	1.315	1.155	12.2	90	0.00
41		2-Hexanone	0.808	0.693	14.2	81	0.00
42		Dibromochloromethane	1.967	1.676	14.8	94	0.00
43	t	1,2-Dibromoethane	1.650	1.404	14.9	89	0.00
44		Chlorobenzene	1.923	1.581	17.8	81	0.00
45		1,1,1,2-Tetrachloroethane	1.169	1.082	7.4	96	0.00
46	T	Ethylbenzene	3.000	2.459	18.0	78	0.00
47	T	p,&m-Xylene	2.318	2.111	8.9	84	0.00
48	T	o-Xylene	2.569	2.325	9.5	91	0.00
49		Styrene	1.366	1.130	17.3	74	0.00
50		Bromoform	1.507	1.162	22.9	86	0.00
51		Isopropyl benzene	2.748	2.611	5.0	90	0.00
52	M	1,1,2,2-Tetrachloroethane	2.250	1.733	23.0	86	0.00
53	S	4-Bromofluorobenzene	0.356	0.371	-4.2	100	0.00
54		Benzyl Chloride	1.236	0.677	45.2#	68	0.00
55		1,2,3-Trichloropropane	0.658	0.587	10.8	89	0.00
56		n-Propyl Benzene	2.768	2.620	5.3	85	0.00
57		Bromobenzene	1.557	1.300	16.5	74	0.00
58		4-Ethyl Toluene	2.771	2.415	12.8	85	0.00
59	T	1,3,5-Trimethylbenzene	3.474	2.924	15.8	89	0.00
60		2-Chlorotoluene	2.634	2.456	6.8	88	0.00
61		4-Chlorotoluene	2.046	1.871	8.6	83	0.00
62		tert-Butylbenzene	2.733	2.580	5.6	87	0.00
63		1,2,4-Trimethylbenzene	3.149	2.606	17.2	82	0.00
64		sec-Butylbenzene	3.106	2.835	8.7	84	0.00
65		p-Isopropyltoluene	2.425	2.369	2.3	88	0.00
66		1,3-Dichlorobenzene	1.461	1.226	16.1	85	0.00
67		1,4-Dichlorobenzene	1.434	1.195	16.7	85	0.00
68		n-Butylbenzene	2.454	2.272	7.4	81	0.00
69		1,2-Dichlorobenzene	1.475	1.220	17.3	88	0.00
70		1,2-Dibromo-3-chloropropane	0.520	0.411	21.0	85	0.00
71		1,2,4-Trichlorobenzene	0.935	0.753	19.5	77	0.00
72		Hexachlorobutadiene	0.926	0.688	25.7	76	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\GCMSB\111226\30DEC003.D
Acq On : 30 Dec 2011 2:03
Sample : CCV
Misc : 50ML
MS Integration Params: RTEINT.P

Vial: 13
Operator: DT
Inst : GC/MS 597
Multiplr: 1.00

Method : D:\GCMSB\METHODS\AL111227.M (RTE Integrator)
Title : EPA TO-15(09/27/05),GC Column:RTxVolatiles 0.32mm
Last Update : Thu Dec 29 15:56:40 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	106	0.00
2		Propene	1.577	1.575	0.1	89	0.00
3		isobutane	0.086	0.030	65.1#	34#	0.00
4		1,3-Butadiene	1.232	1.197	2.8	91	0.00
5		Methanol	1.279	0.505	60.5#	83	-0.01
6		Acetaldehyde	0.575	0.464	19.3	81	0.00
7		Ethanol	0.938	0.629	32.9#	96	0.00
8		Vinyl Bromide	1.626	1.803	-10.9	105	0.00
9		Isopropanol	3.713	3.121	15.9	87	0.00
10		Acrolein	0.669	0.647	3.3	88	-0.01
11		t-Butanol	3.508	3.328	5.1	97	0.00
12		Allyl Chloride	2.368	2.459	-3.8	97	0.00
13		Acrylonitrile	1.364	1.274	6.6	86	0.00
14		t-Butyl methyl ether	5.933	6.136	-3.4	101	-0.01
15		n-Hexane	3.252	3.303	-1.6	95	0.00
16		Isopropyl ether	6.181	6.013	2.7	90	0.00
17		t-Butyl ethyl ether	2.240	2.374	-6.0	104	0.00
18		Ethyl Acetate	0.465	0.493	-6.0	104	0.00
19		2,2-Dichloropropane	3.151	3.188	-1.2	98	-0.01
20		Tetrahydrofuran	1.010	0.994	1.6	101	0.00
21		Cyclohexane	3.464	3.627	-4.7	99	0.00
22		2,2,4-Trimethylpentane	9.589	9.728	-1.4	93	0.00
23	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
24	S	1,2-Dichloroethane-d4	0.490	0.443	9.6	103	0.00
25		t-Amyl methyl ether	1.267	1.230	2.9	103	0.00
26		Heptane	0.424	0.379	10.6	82	0.00
27		1,4-Dioxane	0.393	0.365	7.1	99	0.00
28		2-chloroethylvinylether	0.003	0.001	66.7#	98	0.00
29	S	Toluene-d8	0.766	0.773	-0.9	100	0.00
30		Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
31		Cyclohexanone	0.975	0.856	12.2	88	0.00
32	S	4-Bromofluorobenzene	0.595	0.596	-0.2	105	0.00
33		Dicyclopentadiene	0.025	0.024	4.0	92	0.01
34		Naphthalene	2.302	1.643	28.6	70	0.00
35		1,2,3-Trichlorobenzene	0.004	0.000	100.0#	0#	-22.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Validation Memo

DATA VALIDATION REPORT

Project: Omega Chemical Superfund Site
Air Monitoring – December 2011

References: USEPA CLP National Functional Guidelines for Superfund Organic Data Review June 2008 (EPA540/R-08/01)

Compendium Method TO-15
Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)
January 1999

Air Toxics Limited Methods Manual, Method TO-14A/TO-15

Omega Chemical Superfund Site
Removal Action Work Plan, Appendix B (QAPP)
August 19, 2010

Reviewer: Elizabeth Fortuna
CDM Smith - Irvine, California

Date: January 12, 2012

Analytical Laboratory: Air Toxics Ltd. (Air Toxics)
Folsom, California

Laboratory Report Number: 1112517
1112515

DATA REVIEW

In total, twenty-eight (28) air samples (including three field duplicates) were collected on December 21, 2011 (listed in Table 1), and shipped via overnight delivery service to Air Toxics. Additionally, three samples were sent to a second laboratory (AirTechnology) as split samples. The samples were analyzed for volatile organic compounds (VOCs) by Method TO-15 with Selective Ion Monitoring (SIM). EPA's Functional Guidelines were used to assist in the process of the technical review of the data; however, QC criteria specified in the analytical method, Air Toxics' Methods Manual, and the Omega Removal Action Work Plan, Appendix B (QAPP) were used as the basis for acceptance or data qualification. Sample identification and collection dates are summarized in the following table.

Table 1- Summary of Analysis

Sample ID	*Lab Sample ID*	*Sample Type*	*Date Collected*	*Date Analyzed*
IAQ-FRR1-122111	1112515- 01A	Air	12/21/11	12/27/11
IAQ-FRR1-122111-K	1112515- 02A	DUP	12/21/11	12/27/11
IAQ-FRR2-122111	1112515- 03A	Air	12/21/11	12/27/11
IAQ-FRR3-122111	1112515- 04A	Air	12/21/11	12/27/11
IAQ-AA3A-122111	1112515- 05A	AA	12/21/11	12/27/11
IAQ-AA8-122111	1112515- 06A	AA	12/21/11	12/27/11
IAQ-AA1-122111	1112515- 07A	AA	12/21/11	12/28/11
IAQ-ROP1-122111	1112515- 08A	Air	12/21/11	12/28/11
IAQ-ROP3-122111	1112515- 09A	Air	12/21/11	12/28/11
IAQ-ROP2-122111	1112515- 10A	Air	12/21/11	12/28/11
IAQ-ROP5-122111	1112515- 11A	Air	12/21/11	12/28/11
IAQ-ROP4-122111	1112515- 12A	Air	12/21/11	12/28/11
IAQ-AA16-122111	1112515- 13A	AA	12/21/11	12/28/11
IAQ-AA22-113011	1112515- 14A	AA	12/21/11	12/28/11
IAQ-AA13-122111	1112515- 15A	AA	12/21/11	12/29/11
IAQ-B1-122111	1112515- 16A	Air	12/21/11	12/29/11
IAQ-B1-122111-K	1112515- 17A	DUP	12/21/11	12/29/11
IAQ-B2-122111	1112515- 18A	Air	12/21/11	12/29/11
IAQ-B3-122111	1112515- 19A	Air	12/21/11	12/29/11
IAQ-TP1-122111	1112517- 01A	Air	12/21/11	12/27/11
IAQ-TP2-122111	1112517- 02A	Air	12/21/11	12/27/11
IAQ-TP3-122111	1112517- 03A	Air	12/21/11	12/27/11
IAQ-AA37-122111	1112517- 04A	AA	12/21/11	12/27/11
IAQ-AA34-122111	1112517- 05A	AA	12/21/11	12/27/11
IAQ-AA35-122111	1112517- 06A	AA	12/21/11	12/27/11
IAQ-AA35-122111-K	1112517- 07A	DUP	12/21/11	12/27/11
IAQ-AA36-122111	1112517- 08A	AA	12/21/11	12/27/11
IAQ-AA11-122111	1112517- 09A	AA	12/21/11	12/28/11

Notes:

AA = Ambient air sample
DUP = Field duplicate air sample

VOLATILE ORGANIC COMPOUNDS ASSESSMENT – METHOD TO-15 SIM

Twenty-eight (28) samples were analyzed for VOCs using TO-15 SIM.

I. TECHNICAL HOLDING TIMES

All technical holding times requirements were met. The air samples were collected on December 21, 2011 and analyzed within 8 days of sample collection. Some guidance

suggests that samples for Method TO-15 should be analyzed within 14 days of sampling; however, Method TO-15 indicates that canisters can be stored for up to 30 days for many VOCs.

II. INITIAL CALIBRATION

Prior to the analysis of any samples or standards, an instrument performance check must be performed using 50 ng of 4-bromofluorobenzene (BFB). All ion abundances must meet the criteria listed in Table 3 of Method TO-15. Initial calibration of the instrument must be performed using a minimum of five standard concentrations that span the monitoring range of interest. One calibration point must be at the same concentration as the daily calibration standard and one point should be near the detection limit for the compound of interest. For initial calibration to be accepted, the calculated percent relative standard deviation (%RSD) for the relative response factor (RRF) for each compound in the calibration table must be less than 30 percent with at most two exceptions up to a limit of 40 percent.

Initial calibration was performed on December 23, 2011 for SIM analysis, using a minimum of five concentrations ranging from 0.002 to 20 parts per billion by volume (ppbv), which meets the method requirement. The %RSD for the mean RRF for all target compounds was less than 30 percent. The initial calibration criteria were met.

III. CONTINUING CALIBRATION

Prior to the analysis of samples and blanks but after tuning criteria (4-BFB), the initial calibration of the GC/MS must be verified (once every 12 to 24 hours) by analyzing a daily calibration verification standard (a midpoint check standard at 10 ppbv). The calibration verification standard must contain all target analytes. The percent difference (%D) between the continuing calibration RRF and the initial RRF must be within 30 percent in order to proceed with blanks and samples.

Samples were analyzed on December 27, 28, and 29, 2011. Prior to sample analysis, a 50 ng BFB tuning standard was analyzed. Mass ion abundance criteria were met for the system. The percent difference was below 30 percent for all target analytes. The initial calibration was validated and continuing calibration criteria were met for the project requirements.

IV. METHOD BLANKS

A method blank must be analyzed with each batch of samples immediately after initial calibration is verified and before sample analysis. No target analytes were detected at concentrations above their respective reporting limits in the method blanks for the SIM analysis.

V. SURROGATES

Three surrogate spikes (1,2-dichloroethane-d4, toluene-d8 and 4-bromofluorobenzene) were added to each environmental sample, QC sample, and method blank. Surrogate spike control limits were established by the laboratory at 70 to 130 percent for all three surrogates.

All surrogate recoveries were within the acceptable method control limits.

VI. LABORATORY DUPLICATES

Although not required, one laboratory duplicate was analyzed with this group of samples. The RPDs between the sample and its duplicate were within 25 percent for all detected concentrations; however the results were less than 5x the reporting limit and not qualified as the difference in duplicate sample concentrations is not significant and qualification is not warranted. Therefore, the RPDs between the sample and duplicate meet the replicate precision criterion.

VII. LABORATORY CONTROL SAMPLES (LCS)

Although not required by the method, LCS samples were analyzed with these samples. Additionally, LCS duplicate (LCSD) samples were analyzed with these samples, as no laboratory duplicate was analyzed with the samples. Results from the LCS and LCSD samples were included in the analytical report. Acceptance limits, established by the laboratory, are 70 to 130 percent. All LCS and LCSD analyte recoveries were within the acceptable limits. The relative percent differences (RPDs) between detected analyte concentrations in the duplicate pairs were all less than 25 percent.

VIII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Three field duplicates were collected during this sampling event. Sample IAQ-B1-122111-K is a duplicate sample of IAQ-B1-12211; sample IAQ- AA35-122111-K is a duplicate sample of IAQ- AA35-122111; and sample IAQ-FRR1-113011-K is a duplicate sample of IAQ-FRR1-113011. Additionally, three split samples were collected during this round from samples IAQ-ROP1-122111; IAQ-AA8-122111 and IAQ-TP1-122111 and sent to a different laboratory (AirTechnology) and are discussed below.

The Omega RI/FS specified a duplicate collection frequency of 10 percent. Although not specified, a duplicate precision criterion of 20 percent was used for duplicate air samples (which is equal to the precision criteria for groundwater samples). If the results were detected at concentrations less than 5x the reporting limit, then the difference between the two results was evaluated against the criteria of ± the reporting limit. Results were deemed within criteria if the difference was less than the reporting limit. Bolded results in the tables below indicate results that exceed criteria. As shown on the following tables, the RPDs between the primary and duplicate samples for field duplicates (submitted to AirToxics) were within 20 percent for all analytes, except 1,4-dichlorobenzene in the IAQ-FRR1-122111 field duplicate pair. Therefore, these results are estimated (flagged with a "J") due to field duplicate imprecision.

Compound	IAQ-B1-122111 (ug/m3)	IAQ-B1-122111-K (ug/m3)	RPD
Freon 12	2.8	2.9	3.51

Compound	IAQ-B1-122111 (ug/m3)	IAQ-B1-122111-K (ug/m3)	RPD
Freon 11	1.4	1.4	0.00
Freon 113	0.84	0.83	1.20
Chloroform	0.20	0.19	5.13
Carbon Tetrachloride	0.90	0.80	11.76
Benzene	2.7	2.7	0.00
1,2-Dichloroethane	0.24	0.24	0.00
Toluene	7.7	7.9	2.56
Tetrachloroethene	0.49	0.47	4.17
Ethyl Benzene	1.2	1.2	0.00
m,p-Xylene	4.0	4.2	4.88
o-Xylene	1.4	1.4	0.00
Acetone	19	20	5.13

Compound	IAQ-AA35-122111 (ug/m3)	IAQ-AA35-122111-K (ug/m3)	RPD
Freon 12	2.7	2.6	3.77
Freon 11	1.4	1.3	7.41
Freon 113	0.80	0.73	9.15
Carbon Tetrachloride	0.85	0.75	12.50
Benzene	1.5	1.3	14.29
1,2-Dichloroethane	0.20	0.17	16.22
Toluene	4.2	3.7	12.66
Tetrachloroethene	0.36	0.30	18.18
Ethyl Benzene	0.70	0.58	18.75
m,p-Xylene	2.2	1.9	14.63
o-Xylene	0.78	0.68	13.70
Acetone	16	15	6.45

Compound	IAQ-FRR1-122111 (ug/m3)	IAQ-FRR1-122111-K (ug/m3)	RPD	Less than 5X RL
Freon 12	2.6	2.8	7.41	
Freon 11	3.4	3.6	5.71	
1,1-Dichloroethene	16	18	11.76	
Freon 113	6.5	6.9	5.97	
Chloroform	0.45	0.48	6.45	
Carbon Tetrachloride	0.80	0.87	8.38	
Benzene	3.0	3.3	9.52	
1,2-Dichloroethane	0.38	0.42	10.00	
Trichloroethene	2.6	2.8	7.41	
Toluene	9.6	10	4.08	
Tetrachloroethene	35	35	0.00	
Ethyl Benzene	1.5	1.5	0.00	
m,p-Xylene	5.4	5.1	5.71	

Compound	IAQ-FRR1-122111 (ug/m3)	IAQ-FRR1-122111-K (ug/m3)	RPD	Less than 5X RL
o-Xylene	1.8	1.7	5.71	
1,4-Dichlorobenzene	**5.5**	**2.7**	**68.29**	**N**
Acetone	27	32	16.95	

Split samples for samples IAQ-TP1-122111, IAQ-AA8-122111, and IAQ-ROP1-122111 were submitted to an independent laboratory (AirTechnology) to check precision between laboratories. As shown on the following tables, the precision exceeded the RPD of 20 percent for Freon 11, 1,2-dichloroethane, tetrachloroethene, ethylbenzene, m,p-xylenes, o-xylene and acetone results in the IAQ-TP1-122111 split sample pair. The precision exceeded the RPD of 20 percent for chloroform, carbon tetrachloride, benzene, toluene, m,p-xylene and acetone results for the IAQ-AA8-122111 split sample pair. The precision exceeded the RPD of 20 percent for carbon tetrachloride, 1,2-dichloroethane, ethylbenzene, and o-xylene for the IAQ-ROP1-122111 split sample pair. Therefore, these results are estimated (flagged with a "J") due to split sample imprecision.

Compound	IAQ-TP1-122111 (ug/m3)	IAQ-TP1-122111-K2 (ug/m3)	RPD	Less than 5X RL	Difference of two results	Criteria using ±RL
Freon 12	2.6	2.9	10.91			
Freon 11	**1.3**	**1.6**	**20.69**	**N**		
Freon 113	0.68	0.81	17.45			
Chloroform	0.19	0.20	5.13			
Carbon Tetrachloride	0.72	0.63	13.33			
Benzene	2.9	3.0	3.39			
1,2-Dichloroethane	**0.22**	**0.082**	**91.39**	**Y**	**0.14**	**0.14/0.081**
Toluene	11	12	8.70			
Tetrachloroethene	**0.74**	**1.3**	**54.90**	**N**		
Ethyl Benzene	**2.9**	**4.0**	**31.88**	**N**		
m,p-Xylene	**11**	**14**	**24.00**	**N**		
o-Xylene	**3.9**	**5.6**	**35.79**	**N**		
Acetone	**29**	**37**	**24.24**	**N**		
1,1-Dichloroethene	0.15 U	0.058	NC			
Methylene Chloride	1.2 U	0.83	NC			
Trichloroethene	0.19 U	0.12	NC			
1,4-Dichlorobenzene	0.21 U	0.12	NC			

NC = Not Calculated
U = Not detected above reporting limit

Compound	IAQ-AA8-122111 (ug/m3)	IAQ-AA8-122111-K2 (ug/m3)	RPD	Less than 5X RL	Difference of two results	Criteria using ±RL
Freon 12	2.7	2.8	3.64			
Freon 11	1.4	1.5	6.90			
1,1-Dichloroethene	0.070	0.079 U	NC			
Freon 113	0.66	0.66	0.00			
Chloroform	**0.43**	**0.23**	**60.61**	**Y**	**0.20**	**0.16/0.20**
Carbon Tetrachloride	**0.84**	**0.57**	**38.30**	**Y**	**0.27**	**0.20/0.25**
Benzene	**2.8**	**1.9**	**38.30**	**N**		
1,2-Dichloroethane	0.21	0.16 U	NC			
Toluene	**8.0**	**5.6**	**35.29**	**N**		
Tetrachloroethene	0.71	0.59	18.46			
Ethylbenzene	1.3	1.1	16.67			
m,p-xylene	**4.4**	**3.1**	**34.67**	**N**		
o-xylene	1.5	1.3	14.29			
Acetone	**30**	**24**	**22.22**	**N**		
Trichloroethene	0.18 U	0.085	NC			

NC = Not Calculated
U = Not detected above reporting limit

Compound	IAQ-ROP1-122111 (ug/m3)	IAQ-ROP1-122111-K2 (ug/m3)	RPD	Less than 5X RL	Difference of two results	Criteria using ±RL
Freon 12	2.8	2.9	3.51			
Freon 11	1.4	1.6	13.33			
1,1-Dichloroethene	0.16	0.16	0.00			
Freon 113	0.78	0.89	13.17			
Chloroform	0.21	0.28	28.57	Y	-0.07	0.17/0.098
Carbon Tetrachloride	**0.88**	**0.62**	**34.67**	**Y**	**0.26**	**0.21/0.13**
Benzene	2.9	2.7	7.14			
1,2-Dichloroethane	**0.23**	**0.094**	**83.95**	**Y**	**0.14**	**0.14/0.040**
Toluene	9.9	10	1.01			
Tetrachloroethene	1.3	1.3	0.00			
Ethylbenzene	**1.4**	**1.8**	**25.00**	**N**		
m,p-xylene	4.9	5.9	18.52			
o-xylene	**1.7**	**2.3**	**30.00**	**N**		
Acetone	99	90	9.52			
Methylene Chloride	7.7	8.5	9.88			
Trichloroethene	0.18 U	0.15	NC			

NC = Not Calculated
U = Not detected above reporting limit

In addition, the laboratory summary QC data for the split samples, including laboratory blanks, LCS, and LCS duplicate data were reviewed; however calibration and raw data were not provided for these samples. Benzene, 1,1,1-trichloroethane and tetrachloroethene were detected in the method blank but at concentrations below the reporting limits. Based on the limited data review, no qualification was needed.

IX. INTERNAL STANDARDS

Internal standard (IS) area counts and retention times for samples were within validation criteria. IS area counts for all samples analyzed were within ± 40 percent of the CCV's IS area; and IS retention times were within 0.33 minutes from the retention time of the associated daily standard, which meet criteria specified in Method TO-15.

X. TARGET COMPOUND IDENTIFICATION

All positive compound identifications were confirmed through the mass spectra library.

XI. COMPOUND QUANTITATION

Several positive results were recalculated to ensure that compound quantitation was accurate. No errors were encountered. Compound quantitation was based on the initial calibration average RF.

XII. SYSTEM PERFORMANCE

The system performance was acceptable.

XIII. ION ABUNDANCE CRITERIA

The mass calibration and tune files were reviewed to confirm that the ion abundance criteria met TO-15 criteria (Table 3). All ion abundance criteria were met.

XIV. OVERALL ASSESSMENT OF VOC DATA

All QC criteria evaluated during data validation of the VOC analyses were within acceptable limits, except for several analytes that were qualified based field duplicate or split sample imprecision, which are discussed below.

The 1,4-dichlorobenzene results in IAQ-FRR1-122111 field duplicate pair are qualified as estimated (flagged with a "J") due to field duplicate imprecision.

The Freon 11, 1,2-dichloroethane, tetrachloroethene, ethylbenzene, , m,p-xylenes, o-xylene and acetone results in the IAQ-TP1-122111 split sample pair; the chloroform, carbon tetrachloride, benzene, toluene, m,p-xylene and acetone results in the IAQ-AA8-122111 split sample pair; and the carbon tetrachloride, 1,2-dichloroethane, ethylbenzene, and o-xylene for the IAQ-ROP1-122111 split sample pair are qualified as estimated (flagged with a "J") due to split sample imprecision.

DATA VALIDATION REPORT

Project: Omega Chemical Superfund Site
Interim Soil Vapor Extraction (ISVE) System
Vapor Extraction Wells– November 2011

References: USEPA CLP National Functional Guidelines for Superfund Organic Data Review June 2008 (EPA540/R-08/01)

Compendium Method TO-15
Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)
January 1999

AirTechnology Laboratories, Inc. Standard Operating Procedures for EPA Method TO-14A/TO-15

Omega Chemical Superfund Site
Sampling and Analysis Plan for Interim Soil Vapor Extraction System Operation and Monitoring, July 2010 (ISVE SAP)

Reviewer: Elizabeth Fortuna
CDM Smith - Irvine, California

Date: December 8, 2011

Analytical Laboratory: AirTechnology Laboratories (AirTech)
City of Industry, California

Laboratory Report Number: C110702

DATA REVIEW

Ten (10) soil vapor samples were collected on November 7, 2011, and delivered to AirTech. The samples were analyzed for volatile organic compounds (VOCs) by Method TO-15. EPA's Functional Guidelines were used to assist in the process of the technical review of the data; however, QC criteria specified in the analytical method, AirTech's Standard Operating Procedures for TO-15, and the ISVE SAP were used as the basis for acceptance or data qualification. A level 4 data package was requested for six of the ten samples. Sample identification and collection dates are summarized in the following table.

Sample Summary Table

Sample ID	*Lab Sample ID*	*Sample Type*	*Date Sampled*	*Date Analyzed*	*Level IV/ Raw data requested*
OC-SVE-VE – 1S-11711	C110702-01	SG	11/7/11	11/19/11	
OC-SVE-VE – 5S-11711	C110702-02	SG	11/7/11	11/18/11	
OC-SVE-VE – 6S-11711	C110702-03	SG	11/7/11	11/18/11	
OC-SVE-VE – 8S-11711	C110702-04	SG	11/7/11	11/18/11	
OC-SVE-VE – 9S-11711	C110702-05	SG	11/7/11	11/18/11	X
OC-SVE-VE – 10S-11711	C110702-06	SG	11/7/11	11/18/11	X
OC-SVE-VE – 11S-11711	C110702-07	SG	11/7/11	11/18/11	X
OC-SVE-VE – 12S-11711	C110702-08	SG	11/7/11	11/19/11	X
OC-SVE-VE – 14S-11711	C110702-09	SG	11/7/11	11/19/11	X
OC-SVE-VE – 15S-11711	C110702-10	SG	11/7/11	11/19/11	X

Notes:
SG = Soil gas sample

Results detected below the reporting limit (RL), but above the method detection limit (MDL) were reported as detected and flagged with a "J" for estimated.

Several samples were analyzed at a dilution. Dilution factors ranged from 2.1 to 110.

VOLATILE ORGANIC COMPOUNDS ASSESSMENT – METHOD TO-15

Ten (10) samples were analyzed for VOCs using TO-15 and a Level 4 laboratory package was requested for data validation for six samples. The table above shows which samples have Level IV data provided.

I. TECHNICAL HOLDING TIMES

All technical holding times requirements were met. The air samples were collected on November 7, 2011 and analyzed on November 18 and 19, 2011, which is within 12 days of collection. Some guidance suggests that samples for Method TO-15 should be analyzed within 14 days of sampling; however, Method TO-15 indicates that canisters can be stored for up to 30 days for many VOCs.

II. INITIAL CALIBRATION

Prior to the analysis of any samples or standards, an instrument performance check must be performed using 50 ng of 4-bromofluorobenzene (BFB). All ion abundances must meet the criteria listed in Table 3 of Method TO-15. Initial calibration of the instrument must be performed using a minimum of five standard concentrations that span the monitoring range of interest. One calibration point must be at the same concentration as the daily calibration standard and one point should be near the detection limit for the compound of interest. For initial calibration to be accepted, the calculated percent relative standard deviation (%RSD) for the relative response factor

(RRF) for each compound in the calibration table must be less than 30 percent with at most two exceptions up to a limit of 40 percent.

Initial calibration was performed on November 4, 2011, using a minimum of five concentrations ranging from 1.0 to 250 parts per billion by volume (ppbv), which meets the method requirement. The %RSD for the mean RRF for all target compounds was less than 30 percent.

III. CONTINUING CALIBRATION

Prior to the analysis of samples and blanks but after tuning criteria (4-BFB), the initial calibration of the GC/MS must be verified (once every 12 to 24 hours) by analyzing a daily calibration verification standard (a midpoint check standard at 10 ppbv). The calibration verification standard must contain all target analytes. The percent difference (%D) between the continuing calibration RRF and the initial RRF must be within 30 percent in order to proceed with blanks and samples.

Samples were analyzed on November 18 and 19, 2011. Prior to sample analysis, a 50 ng BFB tuning standard was analyzed. Mass ion abundance criteria were met for the system.

The percent difference was below 30 percent for all target compounds, except for bromomethane and isopropanol on November 18, 2011 and bromomethane, bromoform, and isopropanol on November 19, 2011. Therefore, these results in samples analyzed on that data will be qualified as estimated (flagged with a "J") due to calibration non conformances. Table 1 above presents the analysis date for samples. The initial calibration was validated and continuing calibration criteria were met for the project requirements.

IV. METHOD BLANKS

A method blank must be analyzed with each batch of samples immediately after initial calibration is verified and before sample analysis. No target analytes were detected at concentrations above their respective reporting limits in the method blanks. Therefore, all criteria were met and no further action is required.

V. SURROGATES

Three surrogate spikes (1,2-dichloroethane-d4, toluene-d8 and 4-bromofluorobenzene) were added to each environmental sample, QC sample, and method blank. Surrogate spike control limits were established by the laboratory at 70 to 130 percent for all three surrogates. All surrogate recoveries were within the acceptable control limits. No action was taken as these were the only surrogates outside of criteria.

VII. LABORATORY CONTROL SAMPLES (LCS)

Although not required by the method, LCS and LCS duplicate (LCSD) samples were analyzed with these samples. Results from the LCS samples were included in the analytical report. Acceptance limits were established by the laboratory 70 to 130

percent. All LCS and LCSD analyte recoveries were within the acceptable limits. The LCSD sample was analyzed to assess precision and the relative percent difference (RPD) between the LCS and the duplicate LCS samples was less than 10 percent, which is below the laboratory specified limit of 30 percent. Therefore, all criteria were met and no further action is required.

VIII. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

No field duplicates were analyzed as part of this sampling event. Field duplicates are collected during the quarterly sampling for vapor monitoring probes and are presented in the Data Quality Assessment Table of the Quarterly Report.

IX. INTERNAL STANDARDS

Internal standard (IS) area counts and retention times were provided in the Level 4 data package. IS area counts for all samples analyzed were within ± 40 percent of the CCV's IS area; and IS retention times were within 0.33 minutes from the retention time of the associated daily standard, which meet criteria specified in Method TO-15.

X. TARGET COMPOUND IDENTIFICATION

All positive compound identifications were confirmed through the mass spectra library.

XI. COMPOUND QUANTITATION

Several positive results were recalculated to ensure that compound quantitation was accurate. No errors were encountered. Compound quantitation was based on the initial calibration average RF.

XII. SYSTEM PERFORMANCE

The system performance was acceptable.

XIII. ION ABUNDANCE CRITERIA

The mass calibration and tune files were reviewed to confirm that the ion abundance criteria met TO-15 criteria (Table 3). All ion abundance criteria were met.

XIV. OVERALL ASSESSMENT OF VOC DATA

All QC criteria evaluated during data validation of the VOC analyses were within acceptable limits, except for calibration.

The bromomethane and isopropanol results in samples analyzed on November 18, 2011 and the bromomethane, bromoform, and isopropanol results in samples analyzed on November 19, 2011 were qualified as estimated (flagged with a "J") due to calibration non conformances.