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# **Source Area Remediation Report**

## **Reed Manufacturing Services**

### **Franklin, Indiana**

#### **State Cleanup Incident #: 2013-42015**



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**Source Area Remediation Report  
Reed Manufacturing Services – Franklin, IN  
State Cleanup Site # 2013-42015**

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## 1. INTRODUCTION

Ramboll US Corporation (Ramboll) has prepared this Source Area Remediation Report (Report) for the RCO-Reed Corporation d/b/a Reed Manufacturing Services (Reed) facility located at 1056 Eastview Drive in Franklin, Johnson County, Indiana (Site). The Site and vicinity are illustrated on **Figures 1** and **2**. Ramboll (formerly ENVIRON and Ramboll Environ) was retained as the environmental consultant for the Site in 2014. The Indiana Department of Environmental Management (IDEM) State Cleanup identification number for the Site is 2013-42015.

This Report follows the Source Area Remedial Plan, dated September 9, 2019, which was approved by IDEM in a letter dated November 25, 2019. The remedial plan included excavation of approximately 2,100 tons of non-hazardous soil from an apparent source area on the Site and extending onto the adjacent Hurricane Road Industrial Development (HRID) property (IDEM Site #2013-34567). The IDEM letter approved the remedial plan as presented, and also recommended applying a groundwater treatment product to the excavation. This Report documents pre-excavation activities, excavation of the on-Site and off-site source area, groundwater treatment application, site restoration, and a proposed monitoring plan for the Site.

## 2. SITE BACKGROUND AND INVESTIGATION HISTORY

The following sections provide general information about the Site and a brief review of environmental work completed at the Site. The Site layout and monitoring well network is depicted on **Figure 2**.

### 2.1 Site Background

According to the information provided in the *Expanded Site Inspection Report for Webb Well Field* (IDEM, 2013, updated 2014) and a recent review of available database records, the Site (and east-adjacent property) were part of the Franklin Canning Company / Houghland Packing Company from 1893 to approximately 1957. These companies were tomato canneries reportedly until 1953, when the property was sold to Frank Cravens, at which time tomato canning operations reportedly ceased. Various residences and businesses occupied the portions of the surrounding property for some length of time between 1957 and 1979. The businesses included Johnson County Oil Company, Franklin Brokerage and Warehouse, Shell Oil Company, Cravens Truck Sales, Indiana Diecast Tool, Inc., Johnson Crop Service, and Skokely-Van Kamp Inc. Warehouse. Starting in 1979, the RCO-Reed Corporation operated at the Site, and currently operates as Reed Manufacturing Services. Reed Manufacturing Services provides various metal machining services for its customers. Materials machined include carbon steel, alloy, aluminum, brass, stainless, extruded bars, forgings, castings, and stampings. Reed Manufacturing Services does not use chlorinated solvents at the Site.

The Site property is approximately 4 acres with the manufacturing building encompassing approximately 30,000 square feet. Reed Manufacturing Services provides various metal machining services for its customers. Materials machined include carbon steel, alloy, aluminum, brass, stainless, extruded bars, forgings, castings, and stampings. Reed Manufacturing Services does not use chlorinated solvents at the Site.

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Adjacent commercial properties are located in each cardinal direction to the Site. The north-adjacent property is K&L Grain Inc.; the east-adjacent property is the HRID property, which includes various commercial tenants; the south-adjacent has commercial storage units; and the west-adjacent is a vacant commercial building.

### 2.2 Overview of Environmental Investigations

The Webb Well Field is located approximately 2,400 feet east-northeast from the Site. This well field previously served as one of several potable water supplies for City of Franklin. Cis-1,2-dichloroethene (cis-1,2-DCE) was detected in 2 of the 3 water supply wells in 1988 and continued to be detected during routine sampling. The Maximum Contaminant Level (MCL) was occasionally exceeded in the 1990's and 2000's. According to the *Expanded Site Inspection Report for Webb Well Field* (IDEM, 2013, updated 2014), the two impacted wells were removed from service in 2007 and have not been operated or maintained since 2007. These wells are reportedly being kept for use in an emergency situation, if needed. Site investigation activities were conducted by IDEM in 2010 and 2012 to identify potential sources of contamination to the Webb Well Field. The *Expanded Site Inspection Report for Webb Well Field* (IDEM, 2013, updated 2014) concluded that the former Houghland cannery property may be a source of contamination detected in the municipal wells.

As a result of IDEM's investigation, a *Special Notice of Potential Liability and Request for Information* letter, dated March 23, 2013, was issued for the former Houghland Cannery property/HRID (IDEM State Cleanup site #2013-34567) located east-adjacent to the Site. Investigation activities were conducted on this property, south of Eastview Drive, and to the west of the Reed Site in 2013 and 2014 by Patriot Engineering and Environmental, Inc. (Patriot), the environmental consultant for HRID. The results show groundwater impacts of tetrachloroethene (PCE) and trichloroethene (TCE) near the eastern property boundary of the Reed Site, and, as a result, IDEM indicated a potential for a source area on the Reed property. A *Special Notice of Potential Liability and Request for Information* letter was issued from IDEM to Reed Manufacturing Services on December 5, 2013, and a response was provided to IDEM on January 24, 2014. IDEM provided an *Initial Site Characterization Request* letter on May 22, 2014. IDEM approved the ENVIRON International Corp. (ENVIRON) Initial Site Investigation (ISI) Work Plan, dated July 21, 2014, on August 21, 2014 pending a modification of the work scope to include the installation of three on-site permanent monitoring wells. ENVIRON implemented the modified ISI Work Plan from September-October 2014, advancing 11 soil borings across the Site and converting three of the borings to permanent monitoring wells. Results from that investigation were submitted to IDEM in the *Initial Site Investigation Report*, dated November 10, 2014.

The results of the ISI indicated that PCE and TCE impacts identified in soil and groundwater on-Site were limited to the far southeastern portion of the Reed property. No soil or groundwater impacts were identified in the vicinity of the Site building. Off-Site PCE and TCE impacts were situated on the western portion of the HRID property, and the maximum PCE and TCE concentrations detectable in groundwater during this investigation were on this adjacent property. The limited soil and groundwater impacts at the Site did not appear to be a clear source for the extent of PCE and TCE impacts to groundwater identified on the adjacent HRID property.

IDEM provided a response to the ISI Report on April 9, 2015 and requested some additional investigation. The scope of the further site investigation work was discussed and agreed upon during a meeting with IDEM on May 26, 2015. A FSI Work Plan was

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submitted to IDEM on July 2, 2015, and was approved by IDEM on September 11, 2015. The FSI Work Plan was implemented in October 2015 and included the installation and sampling of 4 additional monitoring wells on the Reed Site. The sampling further confirmed that PCE and TCE impacts identified in soil and groundwater on-Site are limited to the far southeastern portion of the Reed property. Results from that investigation were submitted to IDEM in the *Further Site Investigation (FSI) Report*, dated January 7, 2016.

IDEM provided a response letter to the FSI Report on April 7, 2016. The letter requested additional investigation, most of which pertained to subsurface impacts located on the HRID property. Ramboll Environ provided a response to the IDEM letter on May 24, 2016. This response also included the submittal of data from an additional on-Site groundwater monitoring event conducted in January 2016. Since the submittal of the response letter to IDEM, Ramboll Environ and Patriot have been working collaboratively to conduct additional investigation on both the Reed site and the adjacent HRID.

Additional source area characterization along the property line was conducted collaboratively at both sites in August 2016. The results from this investigation indicated that the apparent source area is located in the vicinity of the property boundary, and that an obvious VOC source was not identified. Additional groundwater monitoring activities were conducted in August 2016, and the results were similar to previous monitoring events. These FSI activities were documented in a FSI Report, dated January 13, 2017. A FSI report for the adjacent HRID site was also submitted to IDEM in January 2017. IDEM responded to both FSI reports in a letter dated April 4, 2017.

Ramboll Environ submitted an additional FSI Report, dated October 19, 2017, to IDEM documenting further investigation activities from July-August 2017 to further characterize the source area and to install a deep on-Site monitoring well (MW-1D). An Additional Site Investigation (ASI) Report was submitted to IDEM by Patriot on October 19, 2017, and an FSI Report was also submitted on July 25, 2018 for the adjacent HRID site. IDEM provided comments to these reports in letters dated February 15, 2018 and November 2, 2018, respectively. The November 2, 2018 IDEM letter for the HRID site requested further delineation of groundwater impacts there. The November 2, 2018 IDEM letter also requested a joint groundwater monitoring event for both sites, which was conducted in March 2019.

Patriot and Ramboll performed gauging and sampling in March 2019 of the entire monitoring well network to address IDEM comment #4 in the November 2, 2018 Further Site Investigation Request letter. It was determined that a plan be submitted to IDEM to remediate the suspected source area in the wooded area along the property boundary between the two sites. Ramboll authored the report and submitted the *Source Area Remedial Plan* on September 9, 2019, and IDEM approved the plan in a letter dated November 25, 2019. The *Source Area Remedial Plan* also documented the March 2019 sampling event on the Reed Site.

Additional investigation has been ongoing by Patriot at the adjacent HRID site. Patriot recently submitted the *Final Report – Further Site Investigation #3* on December 3, 2019; the *Status Report for Sampling Event #1, Supplemental Vapor Intrusion Investigation, Hurricane Road Industrial Development, LLC, Crossroads Recycling, Inc. Building, 1062 Eastview Drive*, on January 30, 2020; and the *Status Report for Sampling Event #1, Supplemental Vapor Intrusion Investigation, Hurricane Road Industrial Development, LLC, Indiana Gymnastics Center Building, 1130 Eastview Drive*, also on January 30, 2020.

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### 3. PRE-EXCAVATION ACTIVITIES

Prior to the initiation of the source area excavation, several pre-excavation activities were undertaken. It was assumed that the soil waste would be non-hazardous due to the source/generating process not being known; therefore, the soil would not be a listed waste. In preparation for the excavation, Ramboll submitted previous analytical results to the planned landfill, CGS Services, Inc., to develop an appropriate waste profile for proper disposal. CGS Services, Inc. requested additional analyses consisting of toxicity characteristic leaching procedure (TCLP) for metals using USEPA method 6010, TCLP for mercury using USEPA method 7470, TCLP for semi-volatile organic compounds (SVOCs) using USEPA 8270A, and polychlorinated biphenyls (PCBs) analysis using USEPA method 8082. These results would determine if the waste would be characteristically hazardous.

Ramboll mobilized to the Site on January 17, 2020 to collect a representative composite soil sample from the excavation area for proper waste characterization. A hand auger was advanced to approximately 2 feet below ground surface (bgs) at 3 locations within the footprint of the proposed excavation. Soil from 4 inches bgs to 2 feet bgs was then composited from each location into a single sample (WC-1), which was submitted to the laboratory. Laboratory analyses were performed by Pace Analytical Services (Pace), of Indianapolis, Indiana and the laboratory report is included in **Appendix A**. All TCLP analyses were below the laboratory detection limit for each compound. A small detection of PCB-1260 (0.58 milligrams per kilogram (mg/kg)) was the only compound detected and it was below the landfill approved disposal restrictions. The non-hazardous waste profile was approved by CGS Services, Inc. on January 29, 2020.

Prior to conducting the excavation, Indiana811 was notified at least 48 hours prior to digging. A private utility locator was also used to confirm the locations of underground utilities. On February 10<sup>th</sup> and 11<sup>th</sup>, 2020, trees and overgrowth were removed from the excavation area to provide access for the machinery. A small portion of the tree line was left in place directly to the north of the excavation area due to the presence of utilities. All trees and overgrowth were mulched onsite and staged to the north of the excavation area.

### 4. SOURCE AREA REMEDIATION

#### 4.1 Soil Excavation

After review of the short-term impact, long term effectiveness, implementability, cost effectiveness, advantages and disadvantages of each remedial technology, the final remedy of soil excavation for source area remediation was selected. Implementation of this remedy is expected to remove the majority of the contamination from the source area very quickly, which should substantially reduce the possibility of ongoing or future impacts to groundwater.

The proposed excavation was identified based on the existing soil analytical results (**Table 1** and **Figure 3**). The total excavation area was approximately 5,200 square feet. A small portion of the excavation area extended onto the HRID property. The excavation area within the northern portion was approximately 5 feet higher in elevation than the southern

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portion. The depth of the excavation followed the topography to just above groundwater, which was approximately 8 to 13 feet bgs. **Figure 4** depicts two cross sections that traverse the excavation area.

The excavation work was conducted between February 12-19, 2020. The excavation began in the southwestern portion at the lowest elevation due to limited accessibility and overhead utilities crossing over the southern portion of the excavation area. The excavation generally continued from the southern extent to the north and northeast. Due to the large concrete cylindrical structure at the western extent of the excavation, soil could not be removed in this area. Consistent with previously soil borings near the site, a silty clay was identified below fill material beginning at an approximate depth of 1 to 3 feet bgs. A fine to medium grained sand was encountered beneath the clay to the bottom of the excavation. Fill material, including bricks, concrete, glass, a possible drum lid, and other debris was encountered at various locations near the eastern property line and extended to the eastern extent of the excavation on the HRID property. The debris was generally in the upper few feet in the southern portion, and to a depth of approximately 6 feet bgs in the northern portion where more brick was present. A buried metallic cylindrical trough-like container was also identified in this area. Approximately 2,500 tons of soil and debris were removed from the excavation. A photoionization detector (PID) was used to screen the excavated soil and work area. PID readings were generally near background levels (e.g. <1 parts per million (ppm)) throughout the excavation. The area was excavated to just above the water table. Small pockets of groundwater surfaced along the southwestern portion of the excavation approximately 8 feet bgs. Groundwater was not encountered anywhere else in the excavation area. A photo log of the excavation is included in **Appendix B**.

Throughout the excavation soil was direct loaded onto trucks. At no point during the excavation, did field screening identify any soil that would be to be further tested prior to transport and disposal. All waste was disposed of at the permitted CGS Services, Inc. landfill in Morristown, IN in accordance with appropriate Federal, State, and local regulations, including the applicable Resource Conservation and Recovery Act (RCRA) regulations. Waste disposal documentation is included in **Appendix C**. In total, 2,524 tons of soil was excavated and disposed of during the excavation.

### 4.2 Confirmatory Samples

In accordance with IDEM guidance, confirmation soil samples were collected at approximately every 20 linear feet along the sidewalls of the excavation. Four bottom soil samples were collected across the base of the excavation in a grid like pattern. Each confirmatory sidewall soil sample was collected from the approximate midpoint depth of the excavation. Confirmatory soil samples were collected using SW846 Method 5035 procedures and analyzed for VOCs using USEPA Method 8260 by Envision Laboratory with a rush 24-hour turnaround time. Expedited results allowed for the potential overexcavation, if necessary. All confirmatory soil samples were reported with a Level IV data quality package.

The confirmation analytical results are depicted in **Table 2** and on **Figure 5** and the laboratory reports are included in **Appendix D**. Results from the confirmation sampling identified minimal impacts in the sidewalls, with PCE only exceeding the IDEM Migration to Groundwater (MTG) screening level in SW-3 (5.0') and SW-6 (6.5'), and TCE only exceeding the IDEM MTG screening level at SW-10 (6.5'). PCE exceeded the IDEM MTG screening level in each of the bottom samples, and TCE in B-2 (13.0') exceeded the MTG

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screening level. The bottom samples were collected just above the water table. All PCE and TCE detections were well below the remedial target concentration of 1 ppm, or mg/kg. Two samples were also collected from the backfill to confirm clean fill material was used for backfilling the excavation. No VOCs were detected in the backfill samples.

### 4.3 QA/QC Measures

QA/QC samples were collected in accordance with USEPA protocols for Level IV data, as described in USEPA's DQO for Remedial Response Activities, Volumes I and II (USEPA, 1987), and per IDEM's Minimum Data Reporting Requirements. Specifically,

- Field duplicate samples were collected with the confirmation soil samples,
- Trip blanks were maintained with the confirmation soil samples,
- Laboratory method blanks, matrix spikes, matrix spike replicates, surrogate spikes, analytical replicates, and laboratory replicates were analyzed at the laboratory to evaluate bias due to sample preparation and analysis, equipment performance and precision, and analytical bias and precision,

Field documentation included sample collection records, quality control records, general field procedures, and corrective action reports for any deviations from the standard field procedures and practices. Field documentation was recorded in the field notebook on a daily basis. Laboratory documentation includes chain-of-custody forms, management records, test methods, laboratory data sheets, internal QA/QC documentation, and documentation of regular equipment maintenance and calibration.

### 4.4 Groundwater Treatment

The November 25, 2019 IDEM letter approving the *Source Area Remedial Plan* recommended applying a groundwater treatment product to the excavation. Two options were evaluated for groundwater treatment during the excavation: (1) mechanical mixing of the treatment chemical into saturated soil below the water table, and (2) installation of an infiltration gallery at the bottom of the excavation and application of the product through the gallery. Groundwater treatment injections after the excavation was also evaluated. After review and evaluation of the options, the infiltration gallery option was selected due to the ease of application, ability for a simple re-application if determined necessary, and being the most cost-effective approach. The sandy saturated soils made this approach feasible and as effective as soil mixing.

Based on the apparent aerobic groundwater conditions (as confirmed by high ORP, high dissolved oxygen, and lack of natural reduction of PCE and TCE in this area), an In Situ Chemical Oxidation (ISCO) approach was selected using potassium permanganate (KMnO<sub>4</sub>). Application of dilute oxidant involved the mixing of a potassium permanganate with potable water and pumping the solution into the access ports of the infiltration gallery. Assuming a 4% weight solution (solubility of KMnO<sub>4</sub>) and a Total Oxidant Demand of 1 g/Kg, a total of approximately 3,100 lbs of KMnO<sub>4</sub> was planned to be mixed with water to produce roughly 7,000 gallons of solution for the application. This volume is equivalent to approximately 17 percent of the pore space assuming a porosity of 25 percent.

Prior to backfilling the excavation area, five shallow trenches (approximately 1-2 feet deep) were dug in the bottom of the excavation for the installation of a polyvinyl chloride (PVC) infiltration gallery on February 20-21, 2020. The PVC gallery was constructed of 4-inch diameter perforated PVC, ranging in lengths of 26 to 53.5 feet and brought to grade



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with a single riser pipe. Each injection line was installed in a shallow trench, backfilled with pea gravel, and generally perpendicular to groundwater flow to facilitate downgradient groundwater treatment. The location of the infiltration gallery within the excavation area and its general construction are provided in **Figure 6**.

To treat the groundwater, Redox Tech LLC (Redox Tech) was contracted to mix and inject a  $\text{KMnO}_4$  through the infiltration gallery on March 3-5, 2020. The potassium permanganate was mixed with water in a 550-gallon poly tank and injected using a 2-inch Sandpiper pump. A total of 7,025 gallons of water was mixed with 3,087 pounds (lbs) of  $\text{KMnO}_4$ . Maintaining an approximate 4 weight percent solution, the volume of solution injected was proportional to the length of the line. The following volumes of solution were injected into each injection line (IL):

- IL-1 is 26 feet long and received approximately 880 gallons of water and 386 lbs of  $\text{KMnO}_4$
- IL-2 is 45 feet long and received approximately 1,500 gallons of water and 661 lbs of  $\text{KMnO}_4$
- IL-3 is 53.5 feet long and received approximately 1,750 gallons of water and 772 lbs of  $\text{KMnO}_4$
- IL-4 is 53 feet long and received approximately 1,750 gallons of water and 772 lbs of  $\text{KMnO}_4$
- IL-5 is 35 feet long and received approximately 1,125 gallons of water and 496 lbs of  $\text{KMnO}_4$

Redox Tech first attempted to gravity feed the solution into IL-2, which resulted in a flow rate of approximately 3 gallons per minute (gpm). In order to increase the flow rate, a pneumatic pump was connected to the injection system. Pressure was maintained at approximately 20-25 pounds per square inch (psi) and flow was increased to 9-14 gpm. The lines were observed during the injection process to evaluate potential daylighting. No surfacing or daylighting was observed throughout the injections. Between 75 and 350 gallons of chase water were applied to each injection line after application of the  $\text{KMnO}_4$ . A summary report of the groundwater treatment activities is provided in **Appendix E**.

### 4.5 Site Restoration

After installation of the PVC infiltration gallery, the excavation was backfilled with a generally coarse-grained pit run soil. During the backfilling, compaction was performed in approximate 2-foot lifts using a skid steer to minimize the potential for pipes breaking. A total of 2,484 tons of backfill soil was placed between February 24<sup>th</sup> and 27<sup>th</sup>. As mentioned above in Section 4.2, two samples of the backfill were collected and no VOCs were detected.

Once topsoil became available due to recent wet conditions, the surface was returned to the original grade and hydroseeded. The injection piping was brought to grade and steel covers will be placed around the piping and encased in concrete.

## 5. GROUNDWATER MONITORING PLAN

In order to monitor the effectiveness of the source area removal and subsequent groundwater treatment, a subset of the on-Site and off-Site monitoring well network will

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be monitored for VOCs. It is expected that quarterly monitoring will continue for 1 to 2 years, depending on the observed contaminant trends. The proposed remedial goal is for PCE and TCE concentrations to meet the commercial vapor exposure screening level (CVESL) at off-Site monitoring wells MW-11 and MW-30, which are located downgradient from the remediation area. If VOC concentrations do not meet the remedial goal, additional groundwater treatment will be considered.

The groundwater monitoring plan includes sampling of on-Site wells MW-3, MW-5, and MW-7 and off-Site wells MW-11, MW-23, MW-30, and MW-31. These wells will be gauged and sampled quarterly beginning in the Second Quarter of 2020. The necessity for additional groundwater treatment will likely be evaluated by the end of 2020.

Prior to sampling during each event, all monitoring wells on the Reed site and off-Site wells MW-11, MW-23, MW-30, and MW-31 will be gauged to evaluate the potentiometric surface and groundwater flow direction. The subset of wells discussed above will then be purged using EPA low flow procedures (USEPA, 1996; IDEM, 2003) and immediately sampled thereafter using a bladder pump, or similar equipment, and dedicated tubing. During the purge process, water quality parameters including pH, temperature, dissolved oxygen, ORP, specific conductivity, and turbidity will be monitored and recorded. Following the stabilization of groundwater quality parameters, groundwater samples will be collected into laboratory-provided sample containers. Samples will be sent to either Pace or Envison laboratory and analyzed for VOCs by Method USEPA SW846-8260. In addition, a HACH manganese high range pocket colorimeter II field kit will be used to evaluate the presence of residual permanganate in the groundwater.

After each quarterly monitoring event, the analytical results will be evaluated to confirm continued VOC degradation. Findings of the groundwater monitoring will be provided in Remedial Progress Reports. The DQO for the groundwater monitoring will be Level II until the final event, at which time the entire monitoring well network on the Reed Site and off-site wells MW-11, MW-23, MW-30, and MW-31 will be gauged and sampled for VOCs. A Level IV DQO will be included for the final groundwater monitoring event. Also, IDEM will be notified prior to the final confirmatory groundwater monitoring event.

## 6. CONCLUSION

This Report documents the source area remediation activities that occurred in February and March 2020. Approximately 2,500 tons of non-hazardous soil were removed and disposed of as part of the source area excavation. Excavated soil was similar to that found in previous borings. Fill material was encountered near the eastern property boundary. Following the excavation, confirmatory samples were collected from the sidewalls and bottom of the excavation. All sample results were well below the remedial target of 1 mg/kg for PCE and TCE, indicating that the excavation was effective at removing most of the PCE and TCE mass in this area. Following excavation activities, an infiltration gallery consisting of 5 PVC laterals was installed in the bottom of the excavation. Once the excavation had been backfilled, a potassium permanganate solution was injected into each piping system to treat residual groundwater impacts. The treatment consisted of approximately 3,087 pounds of potassium permanganate injected as a solution.

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Quarterly groundwater monitoring will be conducted for one to two years to monitor the effectiveness of the remedy. Once the final remedial goals have been achieved as determined by groundwater monitoring, Site Closure and No Further Action will be pursued for the Reed Site.

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**TABLES**

**Table 1**  
**Soil VOC Analytical Results (mg/kg)**  
**Reed Manufacturing Services**  
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Sample Location and Depth (feet bgs)	Sample Date	Lab ID	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylene (Total)
EB-1 (0-2')	9/29/14	50104620001	<0.0048	<0.0048	<0.0048	na	<0.0048	<0.0048	na
EB-1 (8-10')	9/29/14	50104620002	<0.0047	<0.0047	<0.0047	na	<0.0047	<0.0047	na
EB-2 (0-2')	9/29/14	50104620004	<0.0042	<0.0042	<0.0042	na	<0.0042	<0.0042	na
EB-2 (12-14')	9/29/14	50104620005	<0.0040	<0.0040	<0.0040	na	<0.0040	<0.0040	na
EB-3 (0-2')	9/29/14	50104620008	<0.0042	<0.0042	<0.0042	na	<0.0042	<0.0042	na
EB-3 (10-12')	9/29/14	50104620009	<0.0047	<0.0047	<0.0047	na	<0.0047	<0.0047	na
EB-4 (0-2')	9/29/14	50104620012	<0.0048	<0.0048	<0.0048	na	<0.0048	<0.0048	na
EB-4 (14-16')	9/29/14	50104620013	<0.0045	<0.0045	<0.0045	na	<0.0045	<0.0045	na
EB-5 (0-2')	9/29/14	50104620014	<0.0044	<0.0044	<0.0044	na	<0.0044	<0.0044	na
EB-5 (16-18')	9/29/14	50104620015	<0.0045	<0.0045	<0.0045	na	<0.0045	<0.0045	na
EB-5 (16-18') Dup	9/29/14	50104620016	<0.0040	<0.0040	<0.0040	na	<0.0040	<0.0040	na
EB-6 (0-2')	9/29/14	50104620017	<0.0039	<0.0039	<0.0039	na	<0.0039	<0.0039	na
EB-6 (16-18')	9/29/14	50104620018	<0.0048	<0.0048	0.038	na	<0.0048	<0.0048	na
EB-7 (0-2')	9/30/14	50104620024	<0.0041	<0.0041	<b>0.058</b>	na	<b>3.3</b>	<0.0041	na
EB-7 (14-16')	9/30/14	50104620025	<0.0041	<0.0041	<b>2.2</b>	na	<b>0.97</b>	<0.0041	na
EB-8 (0-2')	9/30/14	50104620022	<0.13	<0.13	<b>0.59</b>	na	<b>0.39</b>	<0.13	na
EB-8 (3-4')	9/30/14	50104620023	<0.0050	<0.0050	0.033	na	0.008	<0.0050	na
MW-1 (0-2')	9/29/14	50104620006	<0.0040	<0.0040	<0.0040	na	<0.0040	<0.0040	na
MW-1 (12-14')	9/29/14	50104620007	<0.0043	<0.0043	<0.0043	na	<0.0043	<0.0043	na
MW-2 (0-2')	9/29/14	50104620010	<0.0043	<0.0043	<0.0043	na	<0.0043	<0.0043	na
MW-2 (12-14')	9/29/14	50104620011	<0.0046	<0.0046	<0.0046	na	<0.0046	<0.0046	na
MW-3 (0-2')	9/30/14	50104620019	<0.0046	<0.0046	0.015	na	0.0092	<0.0046	na
MW-3 (0-2') Dup	9/30/14	50104620020	<0.0046	<0.0046	0.014	na	0.0097	<0.0046	na
MW-3 (14-16')	9/30/14	50104620021	<0.0040	<0.0040	0.041	na	0.025	<0.0040	na
MW-4 (0-2')	10/7/15	50129523002	<0.0041	<0.0041	<0.0041	1.28	<0.0041	<0.0041	0.0212
MW-4 (0-2') Dup	10/7/15	50129523003	<0.0041	<0.0041	<0.0041	2.8	<0.0041	<0.0041	<0.0082
MW-4 (12-14')	10/7/15	50129523004	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0092
MW-5 (0-2')	10/7/15	50129523008	<0.0073	<0.0073	<0.0073	0.045	<0.0073	<0.0073	<0.0145
MW-5 (8-10')	10/7/15	50129523009	<0.0044	<0.0044	<b>0.246</b>	<0.0044	<b>0.0468</b>	<0.0044	<0.0088
MW-6 (0-2')	10/7/15	50129523005	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084
MW-6 (14-16')	10/7/15	50129523006	<0.0042	<0.0042	0.0055	<0.0042	<0.0042	<0.0042	<0.0084
MW-7 (8-10')	10/7/15	50129523007	<0.0045	<0.0045	<b>0.191</b>	<0.0045	<b>0.199</b>	<0.0045	<0.0090
EB-9 (0-2')	8/25/16	50152774001	<0.0065	<0.0065	0.013	<0.0065	<b>0.15</b>	<0.0065	<0.013
EB-9 (12-14')	8/25/16	50152774002	<0.0053	<0.0053	0.041	<0.0053	0.033	<0.0053	<0.011
EB-10 (0-2')	8/25/16	50152774003	<0.0044	<0.0044	<b>0.06</b>	<0.0044	<b>0.16</b>	<0.0044	<0.0089
EB-10 (14-16')	8/25/16	50152774004	<0.0053	<0.0053	<b>0.14</b>	<0.0053	<b>0.090</b>	<0.0053	<0.011
EB-10 (14-16') Dup	8/25/16	50152774005	<0.0048	<0.0048	<b>0.11</b>	<0.0048	<b>0.077</b>	<0.0048	<0.0096

**Table 1**  
**Soil VOC Analytical Results (mg/kg)**  
**Reed Manufacturing Services**  
**1056 Eastview Drive**  
**Franklin, Indiana**  
**IDEM State Cleanup # 2013-42015**

Sample Location and Depth (feet bgs)	Sample Date	Lab ID	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylene (Total)
EB-11 (0-2')	8/25/16	50152774006	<0.0041	<0.0041	0.039	<0.0041	0.017	<0.0041	<0.0082
EB-11 (8-10')	8/25/16	50152774007	<0.0050	<0.0050	<b>2.3</b>	<0.0050	<b>0.12</b>	<0.0050	<0.0099
EB-12 (2')	8/25/16	50152774008	<0.0070	<0.0070	<b>7.4</b>	<0.0070	<b>0.31</b>	<0.0070	<0.014
EB-12 (4')	8/25/16	50152774009	<0.0059	<0.0059	<b>0.17</b>	<0.0059	<b>0.065</b>	<0.0059	<0.012
EB-13 (0-2')	8/25/16	50152774010	<0.0048	<0.0048	0.020	<0.0048	<0.0048	<0.0048	<0.0097
EB-13 (8-10')	8/25/16	50152774011	<0.0050	<0.0050	<b>2.8</b>	<0.0050	<b>0.078</b>	<0.0050	<0.010
EB-14 (0-2')	8/25/16	50152774012	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094
EB-14 (4-6')	8/25/16	50152774013	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0086
MW-1D (10-12')	7/25/17	50176216003	<0.0041	<0.0041	<b>0.052</b>	na	0.026	<0.0041	na
EB-29 (0-2.5')	7/25/17	50176216004	<0.0054	<0.0054	0.0082	na	0.0064	<0.0054	na
EB-29 (7.5-10')	7/25/17	50176216005	<0.0042	<0.0042	<b>4.1</b>	na	<b>0.078</b>	<0.0042	na
EB-30 (0-2.5')	7/25/17	50176216006	<0.0037	<0.0037	<b>0.049</b>	na	0.0097	<0.0037	na
EB-30 (7.5-10')	7/25/17	50176216007	<0.0046	<0.0046	<b>7.8</b>	na	<b>0.15</b>	<0.0046	na
EB-31 (0-2.5')	7/25/17	50176216008	<0.0045	<0.0045	<b>0.19</b>	na	<b>0.049</b>	<0.0045	na
EB-31 (12.5-15')	7/25/17	50176216009	<0.2	<0.2	<b>4.5</b>	na	<b>0.3</b>	<0.2	na
EB-32 (0-2.5')	7/25/17	50176216010	<0.004	<0.004	<b>5.3</b>	na	<b>3.0</b>	<0.004	na
EB-32 (10-12.5')	7/25/17	50176216011	<0.24	<0.24	<b>10.1</b>	na	<b>0.69</b>	<0.24	na
EB-32 (10-12.5') Dup.	7/25/17	50176216002	<0.22	<0.22	<b>10.1</b>	na	<b>0.68</b>	<0.22	na
EB-33 (0-2.5')	7/25/17	50176216012	<0.0048	<0.0048	<b>0.23</b>	na	<b>0.12</b>	<0.0048	na
EB-33 (12.5-15')	7/25/17	50176216013	<0.21	<0.21	<b>5.1</b>	na	<b>0.42</b>	<0.21	na
Off-Site Soil Borings (Former Houghland Tomato Cannery)									
PB-15 (0-2')	8/26/16	50152927001	<0.0046	<0.0046	0.024	<0.0046	0.0076	<0.0046	<0.0092
PB-15 (16-18')	8/26/16	50152927002	<0.0045	<0.0045	<b>0.054</b>	<0.0045	0.015	<0.0045	<0.0090
PB-16 (0-2')	8/26/16	50152927003	<0.0043	<0.0043	<b>0.065</b>	<0.0043	<b>0.068</b>	<0.0043	<0.0085
PB-16 (16-18')	8/26/16	50152927004	<0.0050	<0.0050	<b>0.10</b>	<0.0050	<b>0.10</b>	<0.0050	<0.010
PB-17 (0-2')	8/26/16	50152927005	<0.0045	<0.0045	0.037	<0.0045	<b>0.063</b>	<0.0045	<0.0090
PB-17 (14-16')	8/26/16	50152927006	<0.0049	<0.0049	<b>0.21</b>	<0.0049	<b>0.18</b>	<0.0049	<0.0099
PB-18 (0-1')	8/29/16	50152996013	<0.0062	<0.0062	<b>0.048</b>	<0.0062	0.020	<0.0062	<0.012
PB-18 (3-4')	8/29/16	50152996014	<0.0045	<0.0045	0.032	<0.0045	0.012	<0.0045	<0.0090
PB-19 (0-2')	8/29/16	50152996011	<0.0047	<0.0047	<b>0.081</b>	<0.0047	0.030	<0.0047	<0.0094
PB-19 (8-10')	8/29/16	50152996012	<0.0050	<0.0050	<b>5.5</b>	<0.0050	<b>0.16</b>	<0.0050	<0.010
PB-20 (0-2')	8/29/16	50152996008	<0.0055	<0.0055	0.032	<0.0055	0.0064	<0.0055	<0.011
PB-20 (8-10')	8/29/16	50152996010	<0.0050	<0.0050	<b>2.1</b>	<0.0050	<b>0.093</b>	<0.0050	<0.010
PB-21 (0-2')	8/29/16	50152996006	<0.0045	<0.0045	0.005	<0.0045	<0.0045	<0.0045	<0.0090
PB-21 (8-10')	8/29/16	50152996007	<0.0056	<0.0056	<b>1.3</b>	<0.0056	<b>0.075</b>	<0.0056	<0.011
PB-22 (0-2')	8/26/16	50152927007	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.081</b>	<0.0050	<0.010
PB-22 (16-18')	8/26/16	50152927008	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.50
PB-23 (0-2')	8/26/16	50152927009	<0.0045	<0.0045	0.042	<0.0045	<b>0.058</b>	<0.0045	<0.0090
PB-23 (16-18')	8/26/16	50152927010	<0.0047	<0.0047	0.021	<0.0047	0.015	<0.0047	<0.0093
PB-24 (0-2')	8/26/16	50152927011	<0.0054	<0.0054	<b>0.28</b>	<0.0054	<b>0.22</b>	<0.0054	<0.011
PB-24 (16-18')	8/26/16	50152927012	<0.0053	<0.0053	0.18	<0.0053	<b>0.16</b>	<0.0053	<0.011

**Table 1**  
**Soil VOC Analytical Results (mg/kg)**  
**Reed Manufacturing Services**  
**1056 Eastview Drive**  
**Franklin, Indiana**  
**IDEM State Cleanup # 2013-42015**

Sample Location and Depth (feet bgs)	Sample Date	Lab ID	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylene (Total)
Off-Site Soil Borings (Former Houghland Tomato Cannery)									
PB-25 (0-2')	8/26/16	50152927013	<0.0047	<0.0047	0.059	<0.0047	0.021	<0.0047	<0.0095
PB-25 (14-16')	8/26/16	50152927014	<0.0046	<0.0046	<b>4.3</b>	<0.0046	<b>0.21</b>	<0.0046	<0.0093
PB-26 (0-2')	8/26/16	50152927015	<0.0051	<0.0051	0.0068	<0.0051	<0.0051	<0.0051	<0.010
PB-26 (10-12')	8/26/16	50152927016	<0.0052	<0.0052	<b>2.9</b>	<0.0052	<b>0.11</b>	<0.0052	<0.010
PB-27 (0-2')	8/29/16	50152996001	<0.0043	<0.0043	0.0082	<0.0043	<0.0043	<0.0043	<0.0087
PB-27 (8-10')	8/29/16	50152996002	<0.0044	<0.0044	<b>7.8</b>	<0.0044	<b>0.24</b>	<0.0044	<0.0089
PB-28 (0-2')	8/29/16	50152996004	<0.0049	<0.0049	<b>0.13</b>	<0.0049	0.016	<0.0049	<0.0098
PB-28 (8-10')	8/29/16	50152996005	<0.0054	<0.0054	<b>0.22</b>	<0.0054	<b>0.059</b>	<0.0054	<0.011
PB 34 (0-2)	7/26/17	50176347001	<0.0046	<0.0046	0.028	<0.0046	0.014	<0.0046	<0.0091
PB 34 (13-15)	7/26/17	50176347002	<0.005	<0.005	<b>1.9</b>	<0.005	<b>0.18</b>	<0.005	<0.01
<b>PB 35 (0-2)</b>	<b>7/26/17</b>	<b>50176347003</b>	<b>&lt;0.0053</b>	<b>&lt;0.0053</b>	<b>0.029</b>	<b>&lt;0.0053</b>	<b>0.0095</b>	<b>&lt;0.0053</b>	<b>&lt;0.11</b>
<b>PB 35 (13-15)</b>	<b>7/26/17</b>	<b>50176347004</b>	<b>&lt;0.0044</b>	<b>&lt;0.0044</b>	<b>1.7</b>	<b>&lt;0.0044</b>	<b>0.14</b>	<b>&lt;0.0044</b>	<b>&lt;0.0089</b>
PB 36 (0-2)	7/26/17	50176347006	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.012
PB 36 (8-10)	7/26/17	50176347007	<0.0047	<0.0047	<b>1.5</b>	<0.0047	<b>0.067</b>	<0.0047	<0.0094
PB 37 (0-2)	7/26/17	50176347008	<0.0055	<0.0055	0.03	<0.0055	0.0061	<0.0055	<0.011
PB 37 (8-10)	7/26/17	50176347009	<0.0048	<0.0048	<b>4.2</b>	<0.0048	<b>0.17</b>	<0.0048	<0.0096
PB 38 (0-2)	7/28/17	50176495001	<0.0056	<0.0056	0.024	<0.0056	0.007	<0.0056	<0.011
PB 38 (8-10)	7/28/17	50176495002	<0.0049	<0.0049	<b>0.22</b>	<0.0049	<b>0.078</b>	<0.0049	<0.0098
PB 39 (0-2)	7/28/17	50176495003	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012
PB 39 (3-5)	7/28/17	50176495004	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0087
RCG Residential MTG Screening Level <sup>(1)</sup>			0.41	0.59	0.045	14	0.036	0.014	200
RCG Residential Direct Contact Screening Level <sup>(1)</sup>			220	1,700	110	820	5.7	0.83	260
RCG Comm./Ind. Direct Contact Screening Level <sup>(1)</sup>			2,300	1,700	170	820	19	17	260
RCG Excavation Worker Screening Level <sup>(1)</sup>			2,400	1,700	170	820	95	1,300	260

Samples analyzed using Environmental Protection Agency (EPA) SW-846 Method 8260.

mg/kg = milligrams per kilogram

bgs = below ground surface

MTG = Migration To Groundwater

VOCs = Volatile Organic Compounds

PB borings installed and sampled by Patriot Engineering and Environmental, Inc.

<sup>(1)</sup> Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) 2012, with updates through 2020.

<b>Bold</b>	- Exceeds IDEM RCG MTG Screening Level
	- Soil was removed during excavation



**Table 2**  
**Excavation Area Confirmation Soil VOC Analytical Results (mg/kg)**  
**Reed Manufacturing Services**  
**1056 Eastview Drive**  
**Franklin, Indiana**  
**IDEM State Cleanup # 2013-42015**

Sample Location and Depth (feet bgs)	Sample Date	Lab ID	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	All Other VOCs
Confirmation Samples								
SW-1 (4.0)	2/18/2020	20-2262	<0.005	<0.005	<0.005	<0.005	<0.002	ND
SW-2 (4.0)	2/18/2020	20-2263	<0.006	<0.006	0.00733	<0.006	<0.002	ND
SW-3 (5.0)	2/18/2020	20-2264	<0.006	<0.006	<b>0.0555</b>	0.0081	<0.002	ND
SW-4 (6.5)	2/18/2020	20-2265	<0.005	<0.005	<0.005	<0.005	<0.002	ND
SW-5 (4.0)	2/18/2020	20-2266	<0.005	<0.005	0.00574	<0.005	<0.002	ND
SW-6 (6.5)	2/18/2020	20-2267	<0.005	<0.005	<b>0.0483</b>	0.014	<0.002	ND
SW-7 (4.0)	2/18/2020	20-2268	<0.006	<0.006	<0.006	<0.006	<0.002	ND
SW-8 (4.5)	2/18/2020	20-2269	<0.005	<0.005	<0.005	<0.005	<0.002	ND
SW-9 (5.0)	2/18/2020	20-2270	<0.005	<0.005	0.00811	<0.005	<0.002	ND
SW-10 (6.5)	2/19/2020	20-2338	<0.006	<0.006	0.0252	<b>0.0698</b>	<0.002	ND
SW-11 (6.0)	2/19/2020	20-2339	<0.006	<0.006	<0.006	<0.006	<0.002	ND
SW-12 (6.5)	2/19/2020	20-2340	<0.006	<0.006	0.0229	<0.006	<0.002	ND
SW-13 (6.5)	2/19/2020	20-2341	<0.006	<0.006	0.0161	<0.006	<0.002	ND
B-1 (8.0)	2/18/2020	20-2271	<0.006	<0.006	<b>0.0727</b>	0.0134	<0.002	ND
B-2 (13.0)	2/18/2020	20-2272	<0.006	<0.006	<b>0.160</b>	<b>0.0398</b>	<0.002	ND
B-2 (13.0) Dup	2/18/2020	20-2261	<0.006	<0.006	<b>0.103</b>	0.0237	<0.002	ND
B-3 (9.0)	2/18/2020	20-2273	<0.005	<0.005	<b>0.0626</b>	0.0131	<0.002	ND
B-4 (13.0)	2/19/2020	20-2342	<0.005	<0.005	<b>0.0488</b>	0.0103	<0.002	ND
Trip Blank*	2/18/2020	20-2260	<5	<5	<5	<5	<2	ND
Trip Blank*	2/19/2020	20-2337	<5	<5	<5	<5	<2	ND
Backfill-1	2/24/2020	20-2676	<0.006	<0.006	<0.006	<0.006	<0.002	ND
Backfill-2	2/25/2020	20-2756	<0.005	<0.005	<0.005	<0.005	<0.002	ND
RCG Residential MTG Screening Level <sup>(1)</sup>								
			0.41	0.62	0.045	0.036	0.014	NA
RCG Residential Direct Contact Screening Level <sup>(1)</sup>								
			220	1,900	110	5.7	0.83	NA
RCG Comm./Ind. Direct Contact Screening Level <sup>(1)</sup>								
			2,300	1,900	170	19	17	NA
RCG Excavation Worker Screening Level <sup>(1)</sup>								
			2,400	1,900	170	95	1,300	NA

Samples analyzed using Environmental Protection Agency (EPA) SW-846 Method 8260.

mg/kg = milligrams per kilogram

bgs = below ground surface

MTG = Migration To Groundwater

VOCs = Volatile Organic Compounds

ND = Not Detected

NA = Not Available

<sup>(1)</sup> Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) 2012, with updates through 2020.

\* = Trip Blanks were bottles filled with deionized water provided by the Lab; reported in ug/L (microgram per liter)

- Exceeds IDEM RCG MTG Screening Level

**Table 3**  
**Groundwater cVOC Analytical Results (ug/L)**  
**Reed Manufacturing Services**  
**1056 Eastview Drive**  
**Franklin, Indiana**  
**IDEM State Cleanup # 2013-42015**

Sample Location	Sample Date	Sample Depth (feet bgs)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
Grab GW Samples							
EB-1	9/29/14	15-20'	< 5	< 5	< 5	< 5	< 2
EB-2	9/29/14	15-20'	< 5	< 5	< 5	< 5	< 2
EB-3	9/29/14	15-20'	< 5	< 5	< 5	< 5	< 2
EB-4	9/29/14	15-20'	< 5	< 5	< 5	< 5	< 2
EB-5	9/29/14	15-20'	< 5	< 5	< 5	< 5	< 2
EB-5 Dup		15-20'	< 5	< 5	< 5	< 5	< 2
EB-6	9/29/14	15-20'	< 5	< 5	<b>9.0</b>	< 5	< 2
EB-7	9/30/14	15-20'	< 5	< 5	<b>7.7</b>	<b>13.1</b>	< 2
MW-1D	7/25/17	45-49'	<1	<1	<1	<1	<1
		26-30'	<1	<1	<1	<1	<1
		20-24'	<1	<1	<1	<1	<1
Trip Blank	9/29-30/14	NA	< 5	< 5	< 5	< 5	< 2
On-Site Wells							
MW-1	10/3/14	9-19'	< 5	< 5	< 5	< 5	< 2
	10/9/15		< 5	< 5	< 5	< 5	< 2
	1/26/16		<1	<1	<1	<1	<1
	8/31/16		<1	<1	<1	<1	<1
	3/5/19		<1	<1	<1	<1	<1
MW-1D	8/21/17	25-30'	<1	<1	<1	<1	<1
	8/21/17 (Dup)		<1	<1	<1	<1	<1
	3/6/19		<1	<1	<1	<1	<1
MW-2	10/3/14	9-19'	< 5	< 5	< 5	< 5	< 2
	10/3/14 (Dup)		< 5	< 5	< 5	< 5	< 2
	10/9/15		< 5	< 5	< 5	< 5	< 2
	1/26/16		<1	<1	<1	<1	<1
	8/31/16		<1	<1	<1	<1	<1
	3/5/19		<1	<1	<1	<1	<1
MW-3	10/3/14	12-22'	< 5	< 5	< 5	<b>26.5</b>	< 2
	10/9/15		< 5	< 5	<b>11.2</b>	<b>22.5</b>	< 2
	1/27/16		<1	<1	3.1	<b>7.3</b>	<1
	8/31/16		<1	<1	3.7	<b>9.2</b>	<1
	3/6/19		<1	<1	<b>6.4</b>	<b>9.5</b>	<1
MW-4	10/9/15	12-22'	< 5	< 5	< 5	< 5	< 2
	1/26/16		<1	<1	<1	<1	<1
	8/31/16		<1	<1	<1	<1	<1
	3/5/19		<1	<1	<1	<1	<1

**Table 3**  
**Groundwater cVOC Analytical Results (ug/L)**  
**Reed Manufacturing Services**  
**1056 Eastview Drive**  
**Franklin, Indiana**  
**IDEM State Cleanup # 2013-42015**

Sample Location	Sample Date	Sample Depth (feet bgs)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
MW-5	10/9/15	7-17'	< 5	< 5	<b>30.8</b>	<b>52.7</b>	< 2
	1/27/16		<1	<1	<b>18.4</b>	<b>24.1</b>	<1
	1/27/16 (Dup)		<1	<1	<b>20.2</b>	<b>26</b>	<1
	8/31/16		<1	<1	<b>31.6</b>	<b>45.6</b>	<1
	3/6/19		<1	<1	<b>31.5</b>	<b>29.5</b>	<1
MW-6	10/9/15	12-22'	< 5	< 5	< 5	< 5	< 2
	1/26/16		<1	<1	<1	<1	<1
	8/31/16		<1	<1	<1	<1	<1
	3/5/19		<1	<1	1.2	<1	<1
MW-7	10/9/15	11-21'	< 5	< 5	<b>10.7</b>	<b>52.1</b>	< 2
	10/9/15 (Dup)		< 5	< 5	<b>11.3</b>	<b>52.5</b>	< 2
	1/27/16		<1	<1	<b>43.5</b>	<b>75.2</b>	<1
	8/31/16		<1	<1	<b>42.8</b>	<b>53.5</b>	<1
	8/31/16 Dup		<1	<1	<b>41.3</b>	<b>51.3</b>	<1
	3/6/19		<1	<1	<b>57.2</b>	<b>92.5</b>	<1
	3/6/19 Dup		<1	<1	<b>57.0</b>	<b>89.7</b>	<1
Equipment Blank	10/2/14	NA	< 5	< 5	< 5	< 5	< 2
Equipment Blank-2	10/2/14		< 5	< 5	< 5	< 5	< 2
Equipment Blank	10/8/15		< 5	< 5	< 5	< 5	< 2
Equipment Blank	1/26/16		<1	<1	<1	<1	<1
Equipment Blank	8/31/16		<1	<1	<1	<1	<1
Equipment Blank	8/21/17		<1	<1	<1	<1	<1
Equipment Blank	3/5/19		<1	<1	<1	<1	<1
Trip Blank	10/2-10/3/15	NA	< 5	< 5	< 5	< 5	< 2
Trip Blank	10/8-10/9/15		< 5	< 5	< 5	< 5	< 2
Trip Blank	1/26-1/27/16		<1	<1	<1	<1	<1
Trip Blank	8/31/16		<1	<1	<1	<1	<1
Trip Blank	8/21/17		<1	<1	<1	<1	<1
Trip Blank	3/5/19		<1	<1	<1	<1	<1
Grab GW Samples (Former Houghland Tomato Cannery)							
PB-40	7/26/17	29-33	<5	<5	<b>11.9</b>	<b>5.4</b>	<2
	7/26/17	15-19	<5	<5	<b>274</b>	<b>190</b>	<2
	7/26/17 Dup.		<5	<5	<b>280</b>	<b>177</b>	<2
	7/26/17	6-10	<5	<5	<b>259</b>	<b>204</b>	<2
PB-41	7/28/17	30-34	< 5	< 5	<b>18.4</b>	<b>21.1</b>	<2
		24-28	< 5	< 5	<b>18.4</b>	<b>53.4</b>	<2
		15-20	< 5	< 5	<b>22.5</b>	<b>64.5</b>	<2

**Table 3**  
**Groundwater cVOC Analytical Results (ug/L)**  
**Reed Manufacturing Services**  
**1056 Eastview Drive**  
**Franklin, Indiana**  
**IDEM State Cleanup # 2013-42015**

Sample Location	Sample Date	Sample Depth (feet bgs)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
Off-Site Wells (Former Houghland Tomato Cannery)							
MW-11	10/2/14	3.85-13.85	< 5	< 5	<b>126</b>	<b>106</b>	< 2
	10/8/15		< 5	< 5	<b>140</b>	<b>106</b>	< 2
	9/2/16		< 5	< 5	<b>136</b>	<b>110</b>	< 2
	8/21/17		<5	<5	<b>124</b>	<b>82.4</b>	<2
	6/15/18		<5	<5	<b>102</b>	<b>60.0</b>	<2
	2/8/19		<5	<5	<b>68.7</b>	<b>50.4</b>	<2
	2/8/19 Dup		<5	<5	<b>69.7</b>	<b>55.9</b>	<2
	3/5/19		<5	<5	<b>39.6</b>	<b>29.5</b>	<2
	3/29/19		<5	<5	<b>45.3</b>	<b>31.5</b>	<2
MW-11D	6/15/18	18-23	<5	<5	<5	<5	<2
	2/8/19		<5	<5	<5	<5	<2
	3/5/19		<5	<5	<b>7.2</b>	<5	<2
	3/29/19		<5	<5	<5	<5	<2
MW-13	10/2/14	11.3-21.3	< 5	< 5	< 5	<b>20.4</b>	< 2
	10/8/15		< 5	< 5	< 5	< 5	< 2
	9/2/16		< 5	< 5	< 5	< 5	< 2
	8/22/17		< 5	< 5	< 5	< 5	< 2
MW-18	10/2/14	4.8-14.8	< 5	< 5	< 5	< 5	< 2
MW-19	10/2/14	1.4-11.4	< 5	< 5	< 5	< 5	< 2
	3/12/19		< 5	< 5	< 5	< 5	< 2
MW-20	10/2/14	4.7-14.7	< 5	< 5	< 5	< 5	< 2
	8/31/16		< 5	< 5	< 5	< 5	< 2
	8/21/17		< 5	< 5	< 5	< 5	< 2
	3/12/19		< 5	< 5	< 5	< 5	< 2
MW-21	10/2/14	3.62-13.62	< 5	< 5	< 5	< 5	< 2
	8/31/16		< 5	< 5	< 5	< 5	< 2
	8/21/17		< 5	< 5	< 5	< 5	< 2
	3/12/19		< 5	< 5	< 5	< 5	< 2

**Table 3**  
**Groundwater cVOC Analytical Results (ug/L)**  
**Reed Manufacturing Services**  
**1056 Eastview Drive**  
**Franklin, Indiana**  
**IDEM State Cleanup # 2013-42015**

Sample Location	Sample Date	Sample Depth (feet bgs)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
MW-22	10/2/14	8.9-18.9	< 5	< 5	<b>9.6</b>	<b>113</b>	<2
	10/8/15		< 5	< 5	<b>11.8</b>	<b>156</b>	<2
	9/1/16		< 5	< 5	<b>8.4</b>	<b>89.5</b>	<2
	8/22/17		<5	<5	<b>9.6</b>	<b>86.4</b>	<2
	6/14/18		<5	<5	<b>8.9</b>	<b>73.9</b>	<2
	2/8/19		10.8	<5	<b>8.1</b>	<b>71.5</b>	<2
	3/7/19		<5	<5	<b>5.8</b>	<b>30.0</b>	<2
	3/27/19		<5	<5	<b>6.7</b>	<b>30.8</b>	<2
MW-22D	6/14/18	23-28	<5	<5	<b>7.4</b>	<b>34.6</b>	<2
	2/8/19		<5	<5	<b>9.1</b>	<b>42.6</b>	<2
	3/7/19		<5	<5	<b>13.3</b>	<b>43.6</b>	<2
	3/27/19		<5	<5	<b>7.4</b>	<b>32.1</b>	<2
MW-23	10/3/14	10-20	< 5	< 5	<b>119</b>	<b>278</b>	<2
	10/8/15		< 5	< 5	<b>153</b>	<b>354</b>	<2
	9/2/16		< 5	< 5	<b>156</b>	<b>323</b>	<2
	8/21/17		<5	<5	<b>115</b>	<b>234</b>	<2
	3/11/19		<5	<5	<b>15.7</b>	<b>21.9</b>	<2
MW-24	10/2/14	11.8-21.8	< 5	< 5	<b>255</b>	<b>86.8</b>	<2
	10/8/15		< 5	< 5	<b>276</b>	<b>97.1</b>	<2
	9/2/16		< 5	< 5	<b>185</b>	<b>52.0</b>	<2
	8/21/17		<5	<5	<b>167</b>	<b>59.0</b>	<2
	3/12/19		<5	<5	<b>55.2</b>	<b>60.2</b>	<2
MW-25	3/5/14	12.8-22.8	< 5	< 5	<5	<b>9.4</b>	<2
	10/3/14		< 5	< 5	< 5	<b>10.2</b>	<2
	10/8/15		< 5	< 5	< 5	<b>12.2</b>	<2
MW-26	10/2/14	12.9-22.9	< 5	< 5	<b>29.6</b>	<b>48.2</b>	<2
	10/8/15		< 5	< 5	<b>28.7</b>	<b>63.6</b>	<2
	9/1/16		< 5	< 5	<b>22.2</b>	<b>55.4</b>	<2
	8/21/17		<5	<5	<b>21.8</b>	<b>48.0</b>	<2
	6/14/18		<5	<5	<b>22.3</b>	<b>39.8</b>	<2
	2/5/19		<5	<5	<b>14.8</b>	<b>46.1</b>	<2
	3/11/19		<5	<5	<b>12.5</b>	<b>35.5</b>	<2
	3/28/19		<5	<5	<b>15.6</b>	<b>31.0</b>	<2

**Table 3**  
**Groundwater cVOC Analytical Results (ug/L)**  
**Reed Manufacturing Services**  
**1056 Eastview Drive**  
**Franklin, Indiana**  
**IDEM State Cleanup # 2013-42015**

Sample Location	Sample Date	Sample Depth (feet bgs)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
MW-30	9/2/16	4-14	< 5	< 5	<b>695</b>	<b>386</b>	<2
	8/22/17		<5	<5	<b>475</b>	<b>253</b>	<2
	6/15/18		<5	<5	<b>520</b>	<b>283</b>	<2
	2/8/19		<5	<5	<b>171</b>	<b>173</b>	<2
	3/11/19		<5	<5	<b>293</b>	<b>163</b>	<2
	3/29/19		<5	<5	<b>444</b>	<b>159</b>	<2
MW-31	8/22/17	25-30	<5	<5	<b>5.7</b>	<5	<2
	6/15/18		<5	<5	<5	<5	<2
	2/8/19		5.4	<5	<5	<5	<2
	2/8/19 Dup		<5	<5	<5	<5	<2
	3/11/19		<5	<5	<5	<5	<2
	3/11/19 Dup		<5	<5	<5	<5	<2
	3/29/19		<5	<5	<5	<5	<2
	3/29/19 Dup		<5	<5	<5	<5	<2
MW-32	8/21/17	28-33	19.1	<5	<b>11.0</b>	<b>26.9</b>	<2
	6/15/18		26.5	<5	<b>15.1</b>	<b>27.1</b>	<2
	2/5/19		5.9	<5	<b>8.0</b>	<b>9.4</b>	<2
	3/11/19		<5	<5	<b>16.1</b>	<b>37.8</b>	<2
	3/28/19		<5	<5	<b>15.8</b>	<b>29.5</b>	<2
IDEM RCG Residential Tap Screening Level <sup>(1)</sup>			70	100	5	5	2
IDEM RCG Commercial Vapor Exposure Screening Level <sup>(1)</sup>			NA	NA	470	38	35

Samples analyzed using Environmental Protection Agency (EPA) Method 8260

ug/L = micrograms per liter

bgs = below ground surface

NA = Not Available

ND = Not Detected

cVOCs = Chlorinated Volatile Organic Compounds

<sup>(1)</sup> Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) 2012, with updates through 2020.

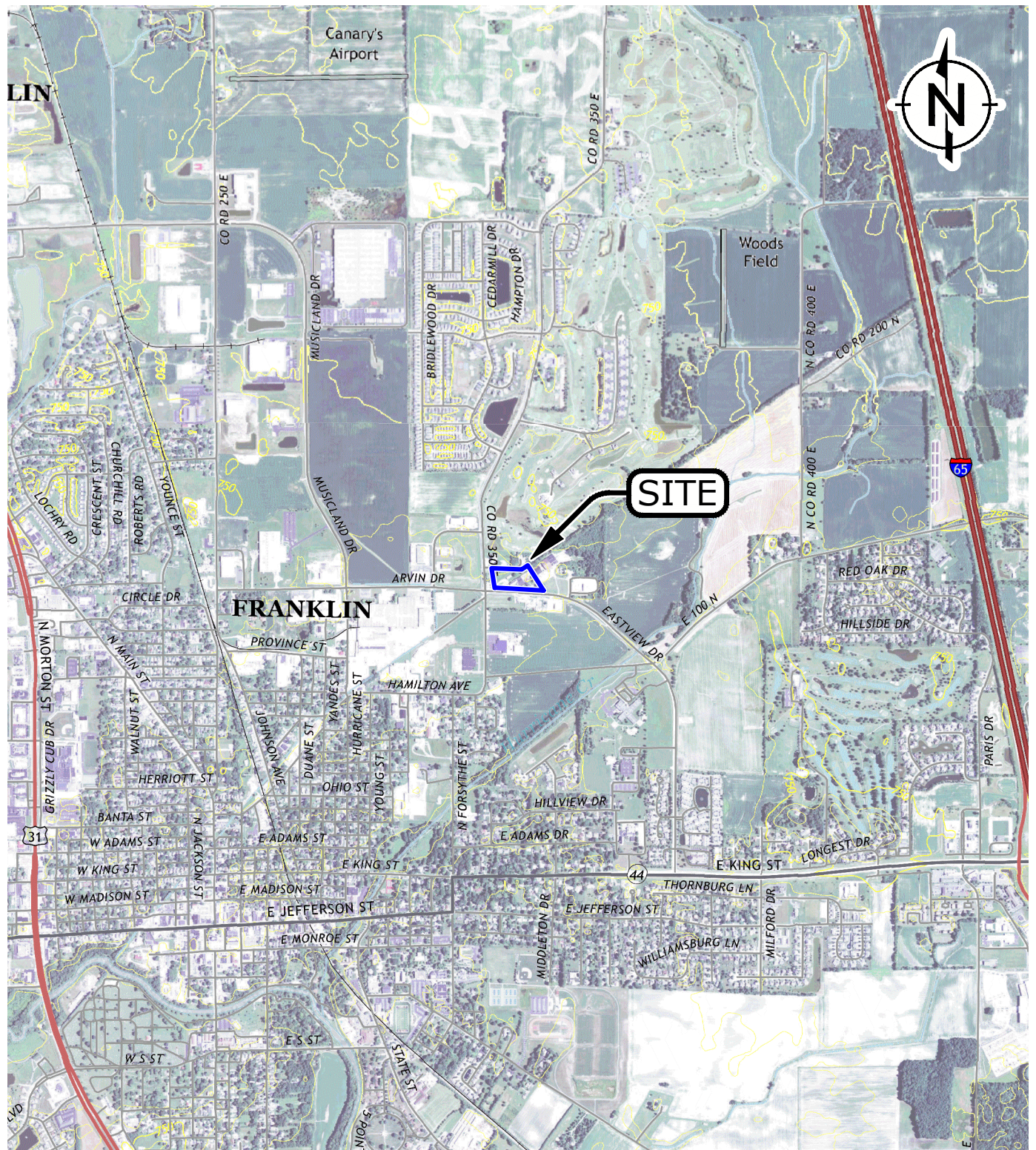
Off-Site sample results taken from Patriot Engineering and Environmental, Inc for the former Houghland Cannery property (State Cleanup #201334567)

**Bold**

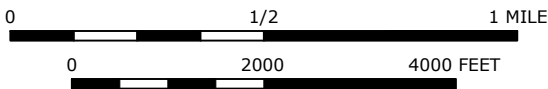
- Exceeds IDEM RCG Residential Tap Screening Level

**Source Area Remediation Report  
Reed Manufacturing Servies – Franklin, IN  
State Cleanup Site # 2013-42015**

**FIGURES**



CONTOUR INTERVAL 10 FEET



**LEGEND:**

PROPERTY BOUNDARY (APPROXIMATE)

**SOURCE:**  
 20xx USGS 7.5 Minute Series Franklin and Greenwood, Indiana Topographic Quadrangles.  
 Site Location; N: 39.493971° W: 86.040194° WGS84



QUADRANGLE LOCATION

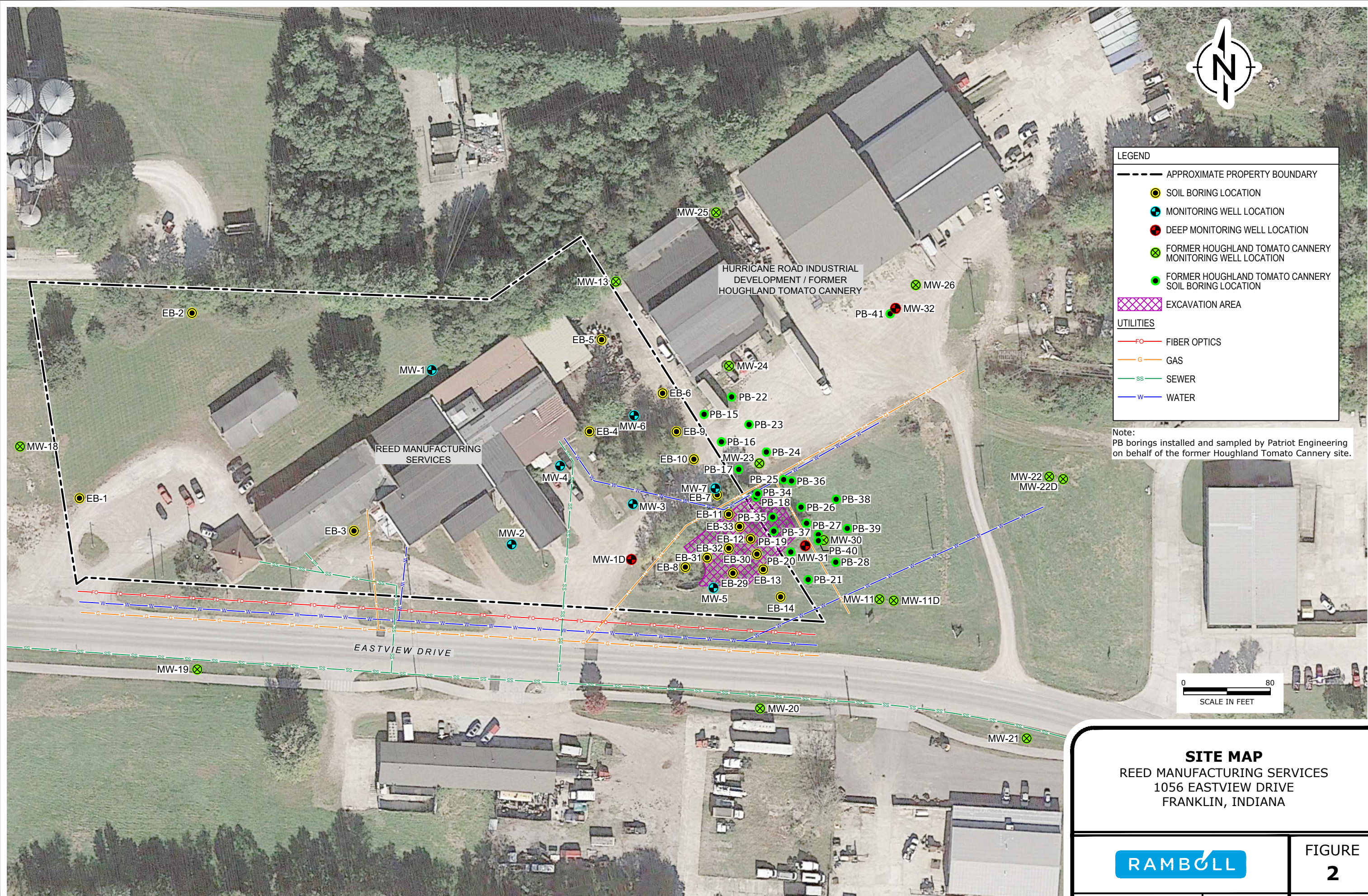


**SITE LOCATION MAP**  
 REED MANUFACTURING SERVICES  
 1056 EASTVIEW DRIVE  
 FRANKLIN, INDIANA

**FIGURE**  
**1**



L:\Loop Project Files\CAD\1690003310\_Reed Manufacturing\Source Removal Plan\2020-03\02\_Site Map.dwg



**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- FORMER HOUGHLAND TOMATO CANNERY MONITORING WELL LOCATION
- FORMER HOUGHLAND TOMATO CANNERY SOIL BORING LOCATION
- ▨ EXCAVATION AREA

**UTILITIES**

- FO FIBER OPTICS
- G GAS
- SS SEWER
- W WATER

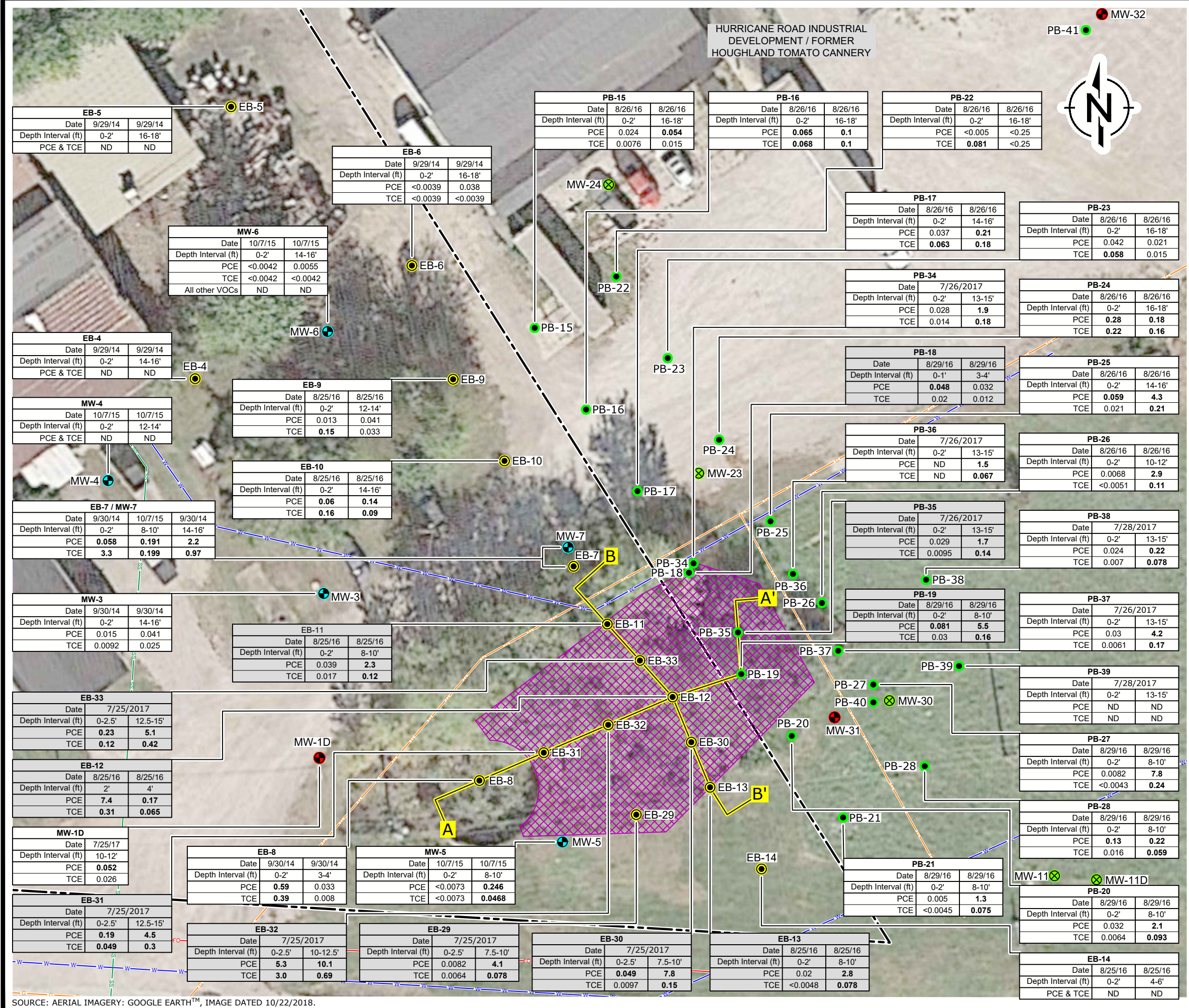
Note:  
PB borings installed and sampled by Patriot Engineering on behalf of the former Houghland Tomato Cannery site.



**SITE MAP**  
 REED MANUFACTURING SERVICES  
 1056 EASTVIEW DRIVE  
 FRANKLIN, INDIANA

	FIGURE
	2

L:\Loop Project Files\CAD\1690003310\_Reed Manufacturing\Plan\2020-03\03\_Soil Analytical Results Map.dwg



**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- ⊗ FORMER HOUGHLAND TOMATO CANNERY MONITORING WELL LOCATION
- FORMER HOUGHLAND TOMATO CANNERY SOIL BORING LOCATION
- ⊗ EXCAVATION AREA
- A A' CROSS SECTION LOCATIONS (SEE FIGURE 4)
- SOIL REMOVED DURING EXCAVATION

**UTILITIES**

- FO FIBER OPTICS
- G GAS
- SS SEWER
- W WATER

**NOTES:**

PB borings installed and sampled by Patriot Engineering on behalf of the former Houghland Tomato Cannery site.

Compound	Res. MTG	C/I DC
PCE	0.045	170
TCE	0.036	19

All results reported in milligrams per kilogram (mg/kg).

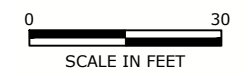
ND = Not Detected  
PCE = Tetrachloroethene  
TCE = Trichloroethene

**BOLD** = Concentration exceeds Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Res. MTG.

Dup = Duplicate Sample

Res. MTG = Residential Migration to Groundwater screening level (IDEM RCG, 2012 with updates through 2019)

C/I DC = Commercial/Industrial Direct Contact screening level (IDEM RCG, 2012 with updates through 2019)



**SOIL ANALYTICAL RESULTS MAP (mg/kg)**  
**REED MANUFACTURING SERVICES**  
1056 EASTVIEW DRIVE  
FRANKLIN, INDIANA

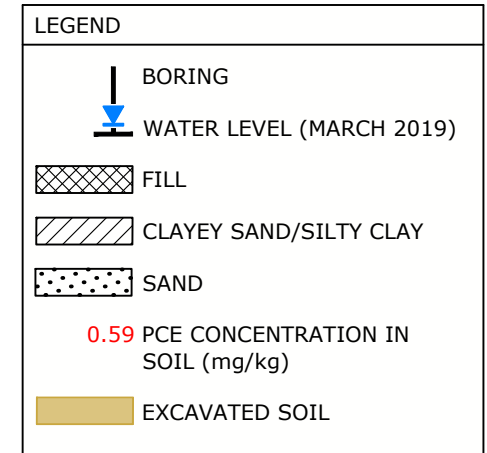
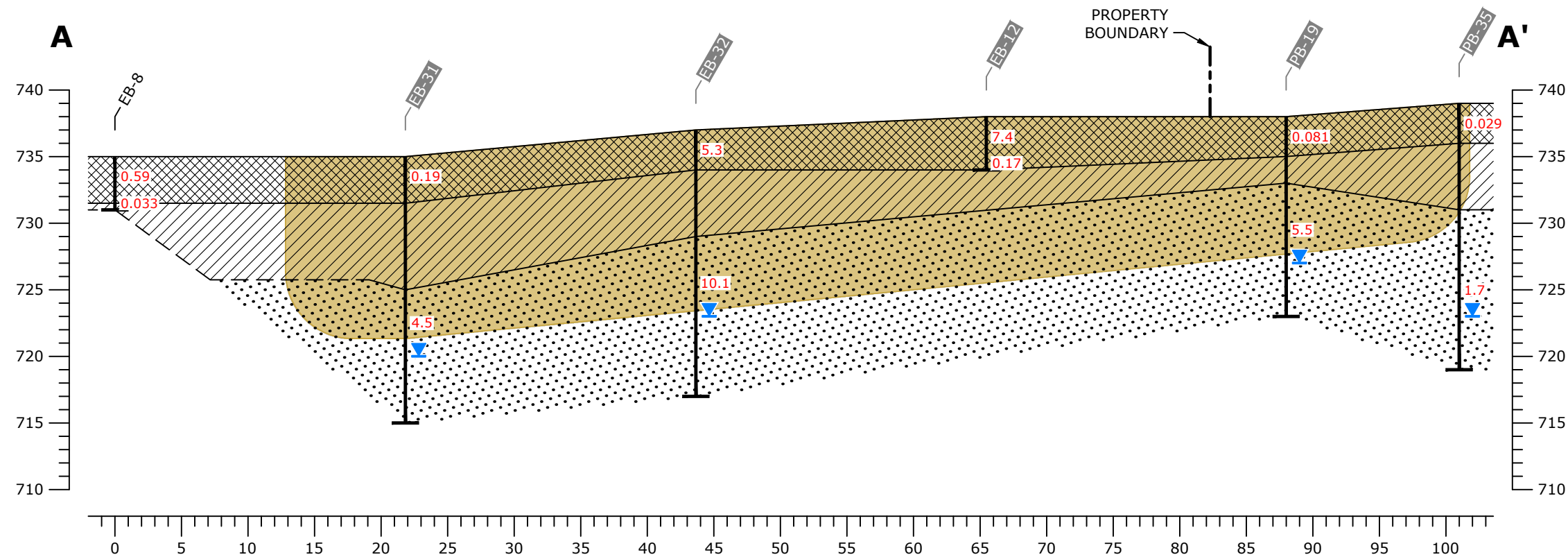
**RAMBOLL**

**FIGURE 3**

DRAFTED BY: CKL      DATE: 3/30/20      1690003310

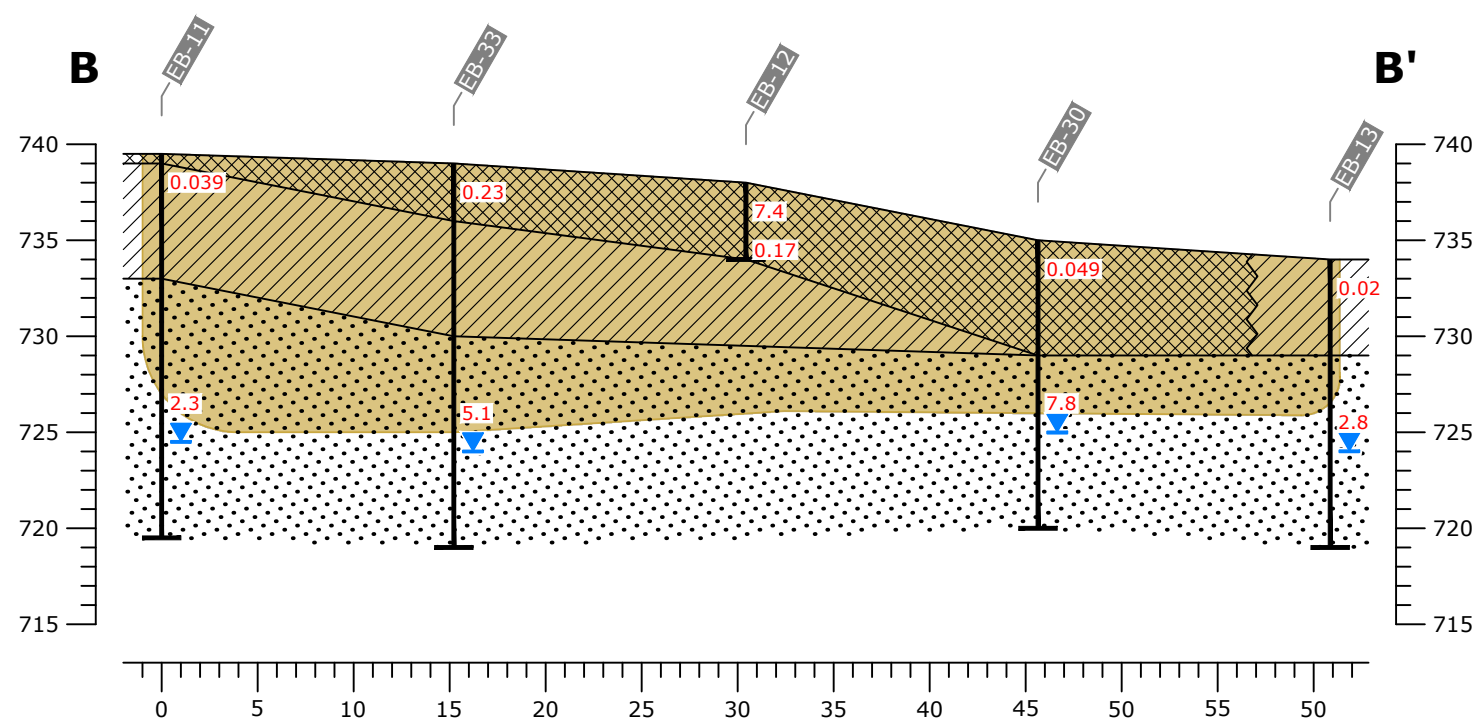
SOURCE: AERIAL IMAGERY: GOOGLE EARTH™, IMAGE DATED 10/22/2018.

L:\Loop Project Files\CAD\1690003310\_Reed Manufacturing\Source Removal Plan\2020-03\04\_Excavation Cross Sections A-A' and B-B'.dwg



Notes:  
 Cross section location in plan view depicted on Figure 3.  
 mg/kg = milligrams per kilogram  
 PCE = Tetrachloroethene  
 Res. MTG = Residential Migration to Groundwater screening level (IDEM RCG, 2012 with updates through 2019)  
 C/I DC = Commercial/Industrial Direct Contact screening level (IDEM RCG, 2012 with updates through 2019)

Compound	Res. MTG	C/I DC
PCE	0.045	170



**EXCAVATION CROSS SECTIONS  
 A-A' AND B-B'**  
 REED MANUFACTURING SERVICES  
 1056 EASTVIEW DRIVE  
 FRANKLIN, INDIANA



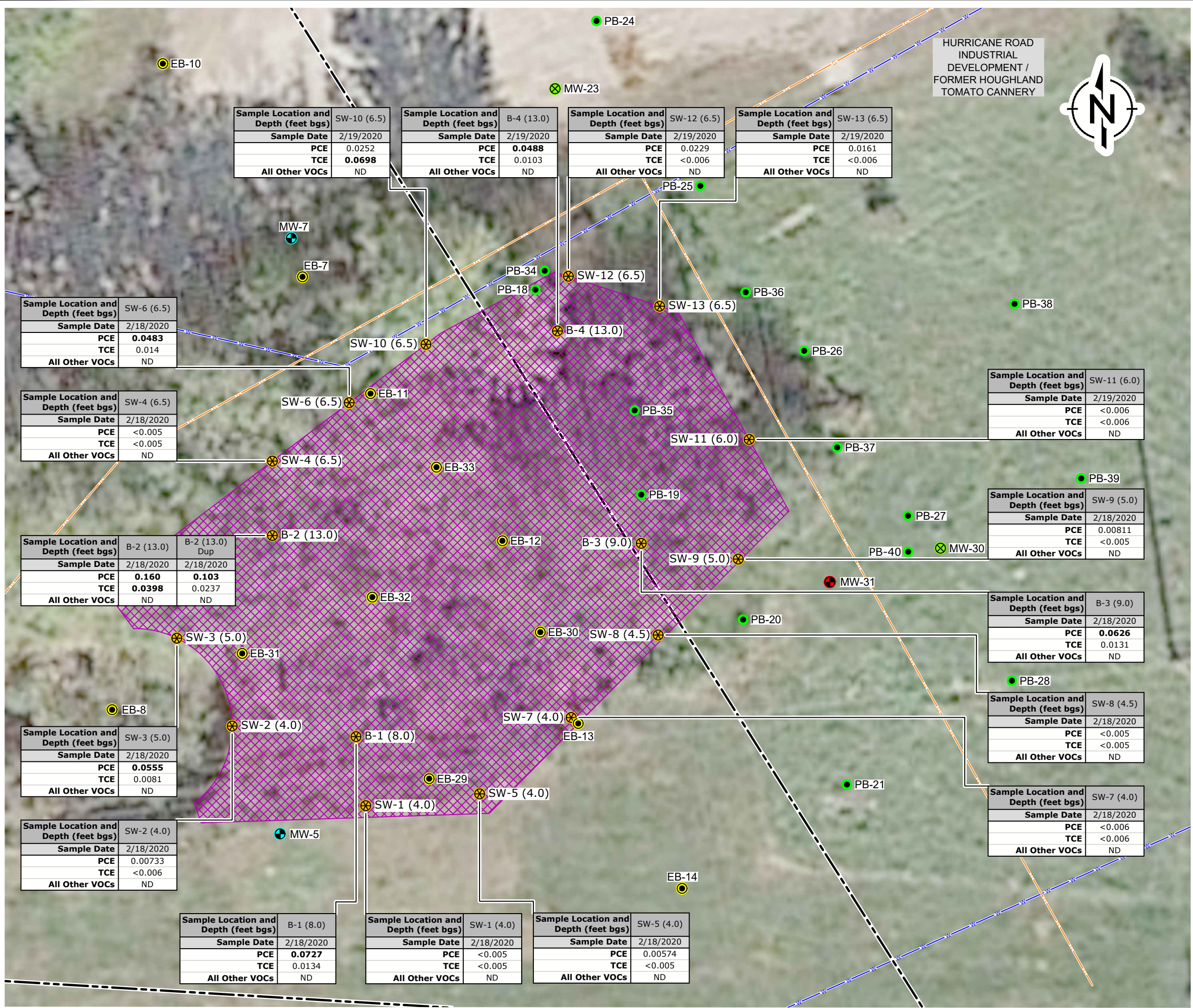
FIGURE  
**4**

DRAFTED BY: CKL

DATE: 3/30/20

1690003310

L:\Loop Project Files\CAD\1690003310\_Reed Manufacturing\Source Removal Plan\2020-03\05\_Excavation Confirmation Soil Sample Results.dwg



**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- ⊗ FORMER HOUGHLAND TOMATO CANNERY MONITORING WELL LOCATION
- FORMER HOUGHLAND TOMATO CANNERY SOIL BORING LOCATION
- ⊗ EXCAVATION AREA
- ⊗ EXCAVATION SAMPLE LOCATION (DEPTH)

**UTILITIES**

- FO FIBER OPTICS
- G GAS
- SS SEWER
- W WATER

**Notes:**

PB borings installed and sampled by Patriot Engineering on behalf of the former Houghland Tomato Cannery site.

All results reported in milligrams per kilogram (mg/kg).

ND = Not Detected  
PCE = Tetrachloroethene  
TCE = Trichloroethene  
MTG = Migration To Groundwater  
VOCs = Volatile Organic Compounds

**BOLD** = Exceeds IDEM RCG MTG Screening Level.  
Dup = Duplicate Sample

<sup>(1)</sup> Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) 2012, with updates through 2020.

Compound	Res. MTG	C/ DC
PCE	0.045	170
TCE	0.036	19

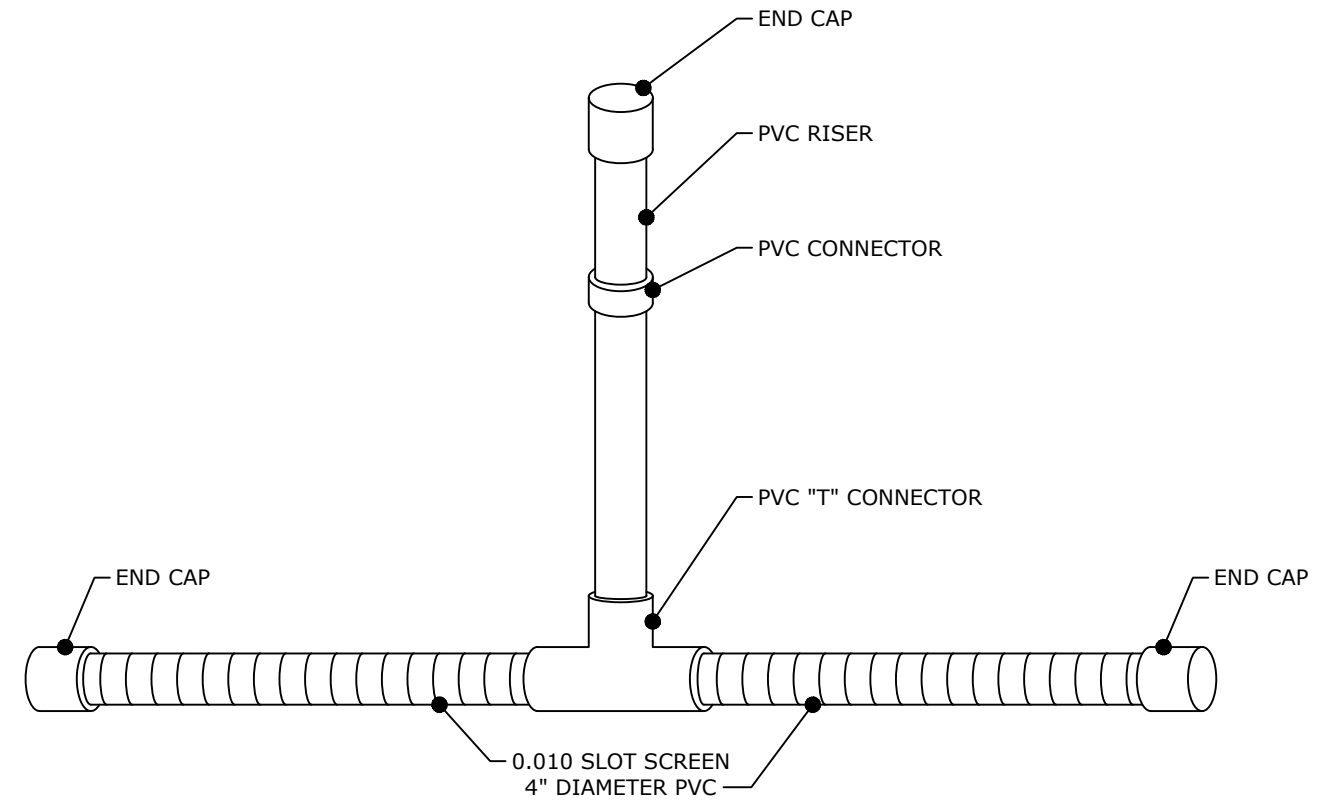
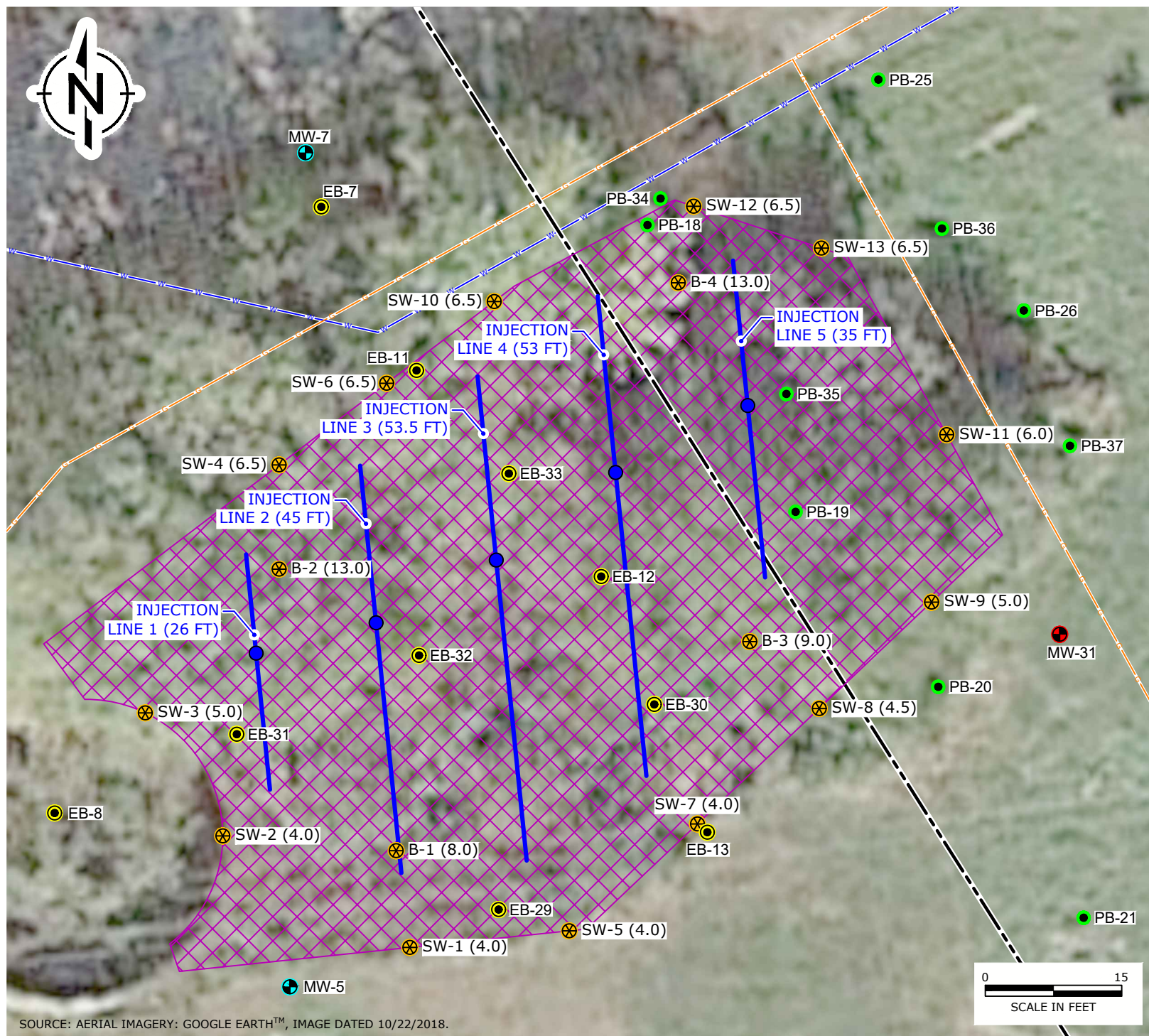


**EXCAVATION CONFIRMATION SOIL SAMPLE RESULTS (mg/kg)**  
**REED MANUFACTURING SERVICES**  
1056 EASTVIEW DRIVE  
FRANKLIN, INDIANA



FIGURE 5

L:\Loop Project Files\CAD\1690003310\_Reed Manufacturing\Source Removal Plan\2020-03\06\_Groundwater Treatment Design.dwg



**SCHEMATIC DETAIL**  
(NOT TO SCALE)

**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- SOIL BORING LOCATION
- ⊕ MONITORING WELL LOCATION
- ⊗ FORMER HOUGHLAND TOMATO CANNERY MONITORING WELL LOCATION
- FORMER HOUGHLAND TOMATO CANNERY SOIL BORING LOCATION
- ▨ EXCAVATION AREA
- ⊗ EXCAVATION SAMPLE LOCATION (DEPTH)
- PVC INJECTION LINE

**UTILITIES**

- FO — FIBER OPTICS
- G — GAS
- SS — SEWER
- W — WATER

Injection Line	Date Completed	Solution Injected (gal)	KMnO4 Injected (lbs)
1 (26-ft)	3/4/2020	880	386
2 (45-ft)	3/3 - 3/4/2020	1,500	661
3 (53.5-ft)	3/5/2020	1,760	772
4 (53-ft)	3/4/2020	1,760	772
5 (35-ft)	3/4 - 3/5/2020	1,125	496
<b>Totals</b>		<b>7,025</b>	<b>3,087</b>

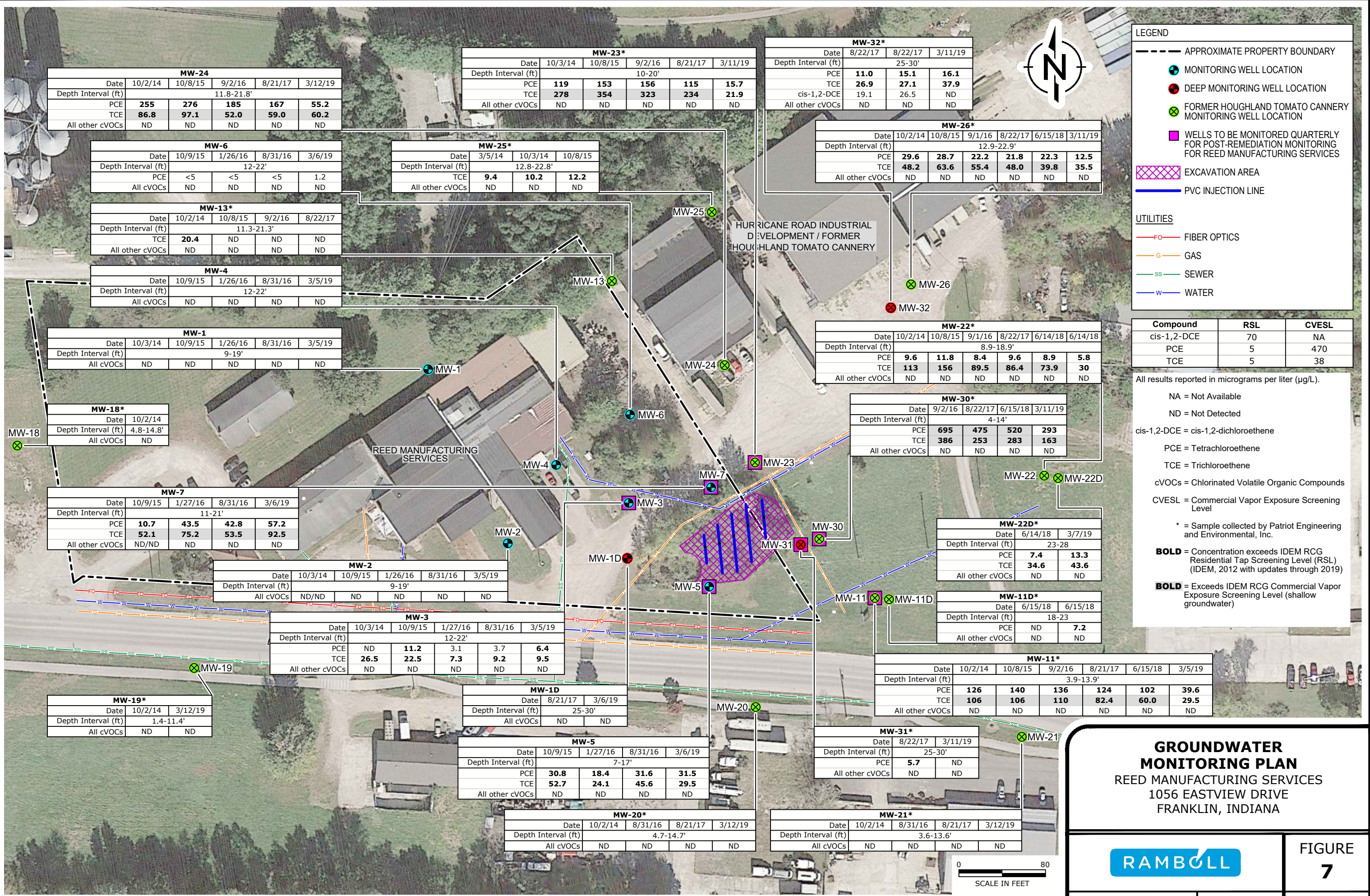
**GROUNDWATER TREATMENT DESIGN**  
 REED MANUFACTURING SERVICES  
 1056 EASTVIEW DRIVE  
 FRANKLIN, INDIANA

**RAMBOLL**

**FIGURE 6**

DRAFTED BY: CKL      DATE: 3/30/20      1690003310

L:\Loop Project Files\CAD\1690003310\_Reed Manufacturing\Source Removal Plan\2020-03\07\_Groundwater Monitoring Plan.dwg



**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- ⊗ FORMER HOUGHLAND TOMATO CANNERY MONITORING WELL LOCATION
- WELLS TO BE MONITORED QUARTERLY FOR POST-REMEDATION MONITORING FOR REED MANUFACTURING SERVICES
- ▨ EXCAVATION AREA
- PVC INJECTION LINE

**UTILITIES**

- FO FIBER OPTICS
- G GAS
- SS SEWER
- W WATER

Compound	RSL	CVESL
cis-1,2-DCE	70	NA
PCE	5	470
TCE	5	38

All results reported in micrograms per liter (µg/L).

NA = Not Available  
 ND = Not Detected

cis-1,2-DCE = cis-1,2-dichloroethene  
 PCE = Tetrachloroethene  
 TCE = Trichloroethene  
 cVOCs = Chlorinated Volatile Organic Compounds  
 CVESL = Commercial Vapor Exposure Screening Level

\* = Sample collected by Patriot Engineering and Environmental, Inc.

**BOLD** = Concentration exceeds IDEM RCG Residential Tap Screening Level (RSL) (IDEM, 2012 with updates through 2019)

**BOLD** = Exceeds IDEM RCG Commercial Vapor Exposure Screening Level (shallow groundwater)

**GROUNDWATER MONITORING PLAN**  
 REED MANUFACTURING SERVICES  
 1056 EASTVIEW DRIVE  
 FRANKLIN, INDIANA



FIGURE  
7



**Source Area Remediation Report  
Reed Manufacturing Services – Franklin, IN  
State Cleanup Site # 2013-42015**

**APPENDIX A**

**WASTE CHARACTERIZATION ANALYTICAL RESULTS**

January 23, 2020

Mr. Chuck Goodwin  
Ramboll Environ  
One Indiana Square  
Suite 2335  
Indianapolis, IN 46204

RE: Project: Reed Manufacturing  
Pace Project No.: 50247235

Dear Mr. Goodwin:

Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mick Mayse  
mick.mayse@pacelabs.com  
(317)228-3100  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Reed Manufacturing

Pace Project No.: 50247235

---

### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Michigan Department of Environmental Quality, Laboratory  
#9050

Ohio VAP Certification #: CL0065

Oklahoma Certification #: 9204

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-19-00257

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Reed Manufacturing  
Pace Project No.: 50247235

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50247235001	WC-1	Solid	01/17/20 10:45	01/17/20 12:09

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Reed Manufacturing

Pace Project No.: 50247235

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50247235001	WC-1	EPA 8082	RID	8	PASI-I
		EPA 6010	KJE	7	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270	JCM	18	PASI-I
		SM 2540G	RM1	1	PASI-I

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Reed Manufacturing

Pace Project No.: 50247235

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50247235001</b>	<b>WC-1</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	0.58	mg/kg	0.35	01/21/20 17:45	
SM 2540G	Percent Moisture	13.9	%	0.10	01/19/20 11:02	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Reed Manufacturing

Pace Project No.: 50247235

---

**Method:** EPA 8082

**Description:** 8082 GCS PCB Solids

**Client:** Ramboll Environ

**Date:** January 23, 2020

**General Information:**

1 sample was analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Reed Manufacturing

Pace Project No.: 50247235

---

**Method:** EPA 6010

**Description:** 6010 MET ICP, TCLP

**Client:** Ramboll Environ

**Date:** January 23, 2020

**General Information:**

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Reed Manufacturing

Pace Project No.: 50247235

---

**Method:** EPA 7470

**Description:** 7470 Mercury, TCLP

**Client:** Ramboll Environ

**Date:** January 23, 2020

**General Information:**

1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Reed Manufacturing

Pace Project No.: 50247235

---

**Method:** EPA 8270

**Description:** 8270 MSSV TCLP Sep Funnel

**Client:** Ramboll Environ

**Date:** January 23, 2020

**General Information:**

1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Reed Manufacturing

Pace Project No.: 50247235

**Sample: WC-1**      **Lab ID: 50247235001**      Collected: 01/17/20 10:45      Received: 01/17/20 12:09      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB Solids</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	mg/kg	0.35	0.017	3	01/19/20 21:50	01/21/20 17:45	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/kg	0.35	0.017	3	01/19/20 21:50	01/21/20 17:45	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	0.35	0.0099	3	01/19/20 21:50	01/21/20 17:45	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	0.35	0.0096	3	01/19/20 21:50	01/21/20 17:45	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	0.35	0.019	3	01/19/20 21:50	01/21/20 17:45	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/kg	0.35	0.011	3	01/19/20 21:50	01/21/20 17:45	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>0.58</b>	mg/kg	0.35	0.020	3	01/19/20 21:50	01/21/20 17:45	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	69	%	26-140		3	01/19/20 21:50	01/21/20 17:45	877-09-8	
<b>6010 MET ICP, TCLP</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 01/18/20 19:30    Initial pH: 8.11; Final pH: 6.45									
Arsenic	ND	mg/L	0.10	0.050	1	01/20/20 13:35	01/21/20 10:26	7440-38-2	
Barium	ND	mg/L	5.0	0.25	1	01/20/20 13:35	01/21/20 10:26	7440-39-3	
Cadmium	ND	mg/L	0.050	0.025	1	01/20/20 13:35	01/21/20 10:26	7440-43-9	
Chromium	ND	mg/L	0.10	0.052	1	01/20/20 13:35	01/21/20 10:26	7440-47-3	
Lead	ND	mg/L	0.10	0.050	1	01/20/20 13:35	01/21/20 10:26	7439-92-1	
Selenium	ND	mg/L	0.10	0.050	1	01/20/20 13:35	01/21/20 10:26	7782-49-2	
Silver	ND	mg/L	0.10	0.050	1	01/20/20 13:35	01/21/20 10:26	7440-22-4	
<b>7470 Mercury, TCLP</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 01/18/20 19:30    Initial pH: 8.11; Final pH: 6.45									
Mercury	ND	mg/L	0.0020	0.0010	1	01/20/20 12:28	01/21/20 00:01	7439-97-6	
<b>8270 MSSV TCLP Sep Funnel</b>									
Analytical Method: EPA 8270    Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 01/18/20 19:30    Initial pH: 8.11; Final pH: 6.45									
1,4-Dichlorobenzene	ND	mg/L	0.10	0.050	1	01/20/20 21:11	01/21/20 12:46	106-46-7	
2,4-Dinitrotoluene	ND	mg/L	0.10	0.050	1	01/20/20 21:11	01/21/20 12:46	121-14-2	
Hexachloro-1,3-butadiene	ND	mg/L	0.10	0.050	1	01/20/20 21:11	01/21/20 12:46	87-68-3	
Hexachlorobenzene	ND	mg/L	0.10	0.050	1	01/20/20 21:11	01/21/20 12:46	118-74-1	
Hexachloroethane	ND	mg/L	0.10	0.050	1	01/20/20 21:11	01/21/20 12:46	67-72-1	
2-Methylphenol(o-Cresol)	ND	mg/L	0.10	0.050	1	01/20/20 21:11	01/21/20 12:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/L	0.20	0.10	1	01/20/20 21:11	01/21/20 12:46		
Nitrobenzene	ND	mg/L	0.10	0.050	1	01/20/20 21:11	01/21/20 12:46	98-95-3	
Pentachlorophenol	ND	mg/L	0.50	0.25	1	01/20/20 21:11	01/21/20 12:46	87-86-5	
Pyridine	ND	mg/L	0.10	0.10	1	01/20/20 21:11	01/21/20 12:46	110-86-1	
2,4,5-Trichlorophenol	ND	mg/L	0.50	0.050	1	01/20/20 21:11	01/21/20 12:46	95-95-4	
2,4,6-Trichlorophenol	ND	mg/L	0.10	0.050	1	01/20/20 21:11	01/21/20 12:46	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	68	%	27-95		1	01/20/20 21:11	01/21/20 12:46	4165-60-0	
2-Fluorobiphenyl (S)	66	%	19-93		1	01/20/20 21:11	01/21/20 12:46	321-60-8	
p-Terphenyl-d14 (S)	87	%	11-147		1	01/20/20 21:11	01/21/20 12:46	1718-51-0	
Phenol-d5 (S)	26	%	10-42		1	01/20/20 21:11	01/21/20 12:46	4165-62-2	
2-Fluorophenol (S)	40	%	10-59		1	01/20/20 21:11	01/21/20 12:46	367-12-4	
2,4,6-Tribromophenol (S)	76	%	33-108		1	01/20/20 21:11	01/21/20 12:46	118-79-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Reed Manufacturing

Pace Project No.: 50247235

---

**Sample: WC-1**      **Lab ID: 50247235001**      Collected: 01/17/20 10:45      Received: 01/17/20 12:09      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b>									
Analytical Method: SM 2540G									
Percent Moisture	<b>13.9</b>	%	0.10	0.10	1		01/19/20 11:02		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

QC Batch: 543501

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury TCLP

Associated Lab Samples: 50247235001

METHOD BLANK: 2507790

Matrix: Water

Associated Lab Samples: 50247235001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00067	0.00033	01/20/20 23:57	

LABORATORY CONTROL SAMPLE: 2507791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0049	98	80-120	

MATRIX SPIKE SAMPLE: 2507792

Parameter	Units	50247235001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.015	103	75-125	

MATRIX SPIKE SAMPLE: 2507793

Parameter	Units	50247176002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.015	101	75-125	

MATRIX SPIKE SAMPLE: 2507794

Parameter	Units	50247220001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.016	105	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2507795 2507796

Parameter	Units	50247273005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Mercury	mg/L	ND	0.015	0.015	0.016	0.013	104	85	75-125	19	20

MATRIX SPIKE SAMPLE: 2507797

Parameter	Units	50247281002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.015	98	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

MATRIX SPIKE SAMPLE:		2507798					
Parameter	Units	50247109001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.015	97	75-125	

MATRIX SPIKE SAMPLE:		2507799					
Parameter	Units	50247183001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.0020	0.015	0.014	92	75-125	

MATRIX SPIKE SAMPLE:		2507800					
Parameter	Units	50247091001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.016	109	75-125	

MATRIX SPIKE SAMPLE:		2507833					
Parameter	Units	50247243001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.015	0.015	102	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

QC Batch: 543465

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 50247235001

METHOD BLANK: 2507660

Matrix: Water

Associated Lab Samples: 50247235001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	0.0050	01/21/20 09:58	
Barium	mg/L	ND	0.50	0.025	01/21/20 09:58	
Cadmium	mg/L	ND	0.0050	0.0025	01/21/20 09:58	
Chromium	mg/L	ND	0.010	0.0052	01/21/20 09:58	
Lead	mg/L	ND	0.010	0.0050	01/21/20 09:58	
Selenium	mg/L	ND	0.010	0.0050	01/21/20 09:58	
Silver	mg/L	ND	0.010	0.0050	01/21/20 09:58	

LABORATORY CONTROL SAMPLE: 2507661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.91	91	80-120	
Barium	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	1	0.94	94	80-120	
Chromium	mg/L	1	0.93	93	80-120	
Lead	mg/L	1	0.93	93	80-120	
Selenium	mg/L	1	0.94	94	80-120	
Silver	mg/L	0.5	0.46	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2507662 2507663

Parameter	Units	50247003001		50247003001		50247003001		50247003001		Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS % Rec	MSD % Rec	% Rec Limits			
Arsenic	mg/L	ND	10	10	9.2	9.3	92	93	50-150	1	20
Barium	mg/L	ND	10	10	9.8	9.8	94	95	50-150	1	20
Cadmium	mg/L	ND	10	10	9.5	9.5	95	95	50-150	0	20
Chromium	mg/L	0.21	10	10	9.5	9.6	93	94	50-150	1	20
Lead	mg/L	ND	10	10	9.0	9.1	90	91	50-150	1	20
Selenium	mg/L	ND	10	10	9.5	9.5	95	95	50-150	0	20
Silver	mg/L	ND	5	5	4.7	4.8	94	96	50-150	1	20

MATRIX SPIKE SAMPLE: 2507664

Parameter	Units	50247029001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	10	9.1	91	50-150	
Barium	mg/L	ND	10	10.0	92	50-150	
Cadmium	mg/L	ND	10	9.3	93	50-150	

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

MATRIX SPIKE SAMPLE: 2507664		50247029001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chromium	mg/L	ND	10	9.1	91	50-150	
Lead	mg/L	ND	10	8.9	89	50-150	
Selenium	mg/L	ND	10	9.4	94	50-150	
Silver	mg/L	ND	5	4.6	93	50-150	

MATRIX SPIKE SAMPLE: 2507665		50247235001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	9.3	93	50-150	
Barium	mg/L	ND	10	10.2	94	50-150	
Cadmium	mg/L	ND	10	9.5	95	50-150	
Chromium	mg/L	ND	10	9.4	94	50-150	
Lead	mg/L	ND	10	9.1	91	50-150	
Selenium	mg/L	ND	10	9.7	97	50-150	
Silver	mg/L	ND	5	4.8	95	50-150	

MATRIX SPIKE SAMPLE: 2507666		50247176001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	8.8	88	50-150	
Barium	mg/L	ND	10	9.5	89	50-150	
Cadmium	mg/L	ND	10	9.0	90	50-150	
Chromium	mg/L	ND	10	8.9	88	50-150	
Lead	mg/L	ND	10	8.6	86	50-150	
Selenium	mg/L	ND	10	9.1	91	50-150	
Silver	mg/L	ND	5	4.5	90	50-150	

MATRIX SPIKE SAMPLE: 2507667		50247220001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	9.1	91	50-150	
Barium	mg/L	ND	10	9.9	92	50-150	
Cadmium	mg/L	ND	10	9.3	93	50-150	
Chromium	mg/L	0.21	10	9.4	92	50-150	
Lead	mg/L	ND	10	9.0	90	50-150	
Selenium	mg/L	ND	10	9.4	94	50-150	
Silver	mg/L	ND	5	4.7	94	50-150	

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

MATRIX SPIKE SAMPLE: 2507668		50247243001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	8.7	87	50-150	
Barium	mg/L	ND	10	9.4	89	50-150	
Cadmium	mg/L	ND	10	8.9	89	50-150	
Chromium	mg/L	ND	10	8.8	88	50-150	
Lead	mg/L	ND	10	8.6	86	50-150	
Selenium	mg/L	ND	10	9.0	90	50-150	
Silver	mg/L	ND	5	4.4	88	50-150	

MATRIX SPIKE SAMPLE: 2507669		50247109001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	9.3	93	50-150	
Barium	mg/L	ND	10	11.4	95	50-150	
Cadmium	mg/L	ND	10	9.5	95	50-150	
Chromium	mg/L	ND	10	9.3	93	50-150	
Lead	mg/L	ND	10	9.1	91	50-150	
Selenium	mg/L	ND	10	9.6	96	50-150	
Silver	mg/L	ND	5	4.7	94	50-150	

MATRIX SPIKE SAMPLE: 2507670		50247183001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	<0.10	10	9.4	94	50-150	
Barium	mg/L	<5.0	10	9.6	96	50-150	
Cadmium	mg/L	<0.050	10	9.6	96	50-150	
Chromium	mg/L	0.21	10	9.7	94	50-150	
Lead	mg/L	<0.10	10	9.2	92	50-150	
Selenium	mg/L	<0.10	10	9.7	97	50-150	
Silver	mg/L	<0.10	5	4.8	95	50-150	

MATRIX SPIKE SAMPLE: 2507671		50247005001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	ND	10	9.2	92	50-150	
Barium	mg/L	0.63J	10	10	93	50-150	
Cadmium	mg/L	ND	10	9.4	94	50-150	
Chromium	mg/L	ND	10	9.2	92	50-150	
Lead	mg/L	ND	10	9.0	90	50-150	
Selenium	mg/L	ND	10	9.6	96	50-150	
Silver	mg/L	ND	5	4.7	94	50-150	

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

MATRIX SPIKE SAMPLE:		2507672						
Parameter	Units	50247091001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
Arsenic	mg/L	ND	10	8.9	89	50-150		
Barium	mg/L	ND	10	10.6	91	50-150		
Cadmium	mg/L	ND	10	9.1	91	50-150		
Chromium	mg/L	ND	10	9.0	90	50-150		
Lead	mg/L	ND	10	8.8	88	50-150		
Selenium	mg/L	ND	10	9.2	92	50-150		
Silver	mg/L	ND	5	4.5	90	50-150		

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

QC Batch: 543451

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 50247235001

METHOD BLANK: 2507635

Matrix: Solid

Associated Lab Samples: 50247235001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.099	0.0048	01/20/20 14:17	
PCB-1221 (Aroclor 1221)	mg/kg	ND	0.099	0.0048	01/20/20 14:17	
PCB-1232 (Aroclor 1232)	mg/kg	ND	0.099	0.0028	01/20/20 14:17	
PCB-1242 (Aroclor 1242)	mg/kg	ND	0.099	0.0027	01/20/20 14:17	
PCB-1248 (Aroclor 1248)	mg/kg	ND	0.099	0.0055	01/20/20 14:17	
PCB-1254 (Aroclor 1254)	mg/kg	ND	0.099	0.0030	01/20/20 14:17	
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.099	0.0056	01/20/20 14:17	
Tetrachloro-m-xylene (S)	%	91	26-140		01/20/20 14:17	

LABORATORY CONTROL SAMPLE: 2507636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	0.17	0.14	82	59-119	
PCB-1260 (Aroclor 1260)	mg/kg	0.17	0.13	78	57-119	
Tetrachloro-m-xylene (S)	%			81	26-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2507637 2507638

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50247125002 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.2	0.2	0.17	0.17	89	88	10-159	1	20
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.2	0.2	0.15	0.15	78	76	11-131	3	20
Tetrachloro-m-xylene (S)	%						83	77	26-140		

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

QC Batch: 543603

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 TCLP MSSV

Associated Lab Samples: 50247235001

METHOD BLANK: 2508087

Matrix: Water

Associated Lab Samples: 50247235001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dichlorobenzene	mg/L	ND	0.010	0.0050	01/21/20 09:47	
2,4,5-Trichlorophenol	mg/L	ND	0.050	0.0050	01/21/20 09:47	
2,4,6-Trichlorophenol	mg/L	ND	0.010	0.0050	01/21/20 09:47	
2,4-Dinitrotoluene	mg/L	ND	0.010	0.0050	01/21/20 09:47	
2-Methylphenol(o-Cresol)	mg/L	ND	0.010	0.0050	01/21/20 09:47	
3&4-Methylphenol(m&p Cresol)	mg/L	ND	0.020	0.010	01/21/20 09:47	
Hexachloro-1,3-butadiene	mg/L	ND	0.010	0.0050	01/21/20 09:47	
Hexachlorobenzene	mg/L	ND	0.010	0.0050	01/21/20 09:47	
Hexachloroethane	mg/L	ND	0.010	0.0050	01/21/20 09:47	
Nitrobenzene	mg/L	ND	0.010	0.0050	01/21/20 09:47	
Pentachlorophenol	mg/L	ND	0.050	0.025	01/21/20 09:47	
Pyridine	mg/L	ND	0.010	0.010	01/21/20 09:47	
2,4,6-Tribromophenol (S)	%	68	33-108		01/21/20 09:47	
2-Fluorobiphenyl (S)	%	62	19-93		01/21/20 09:47	
2-Fluorophenol (S)	%	39	10-59		01/21/20 09:47	
Nitrobenzene-d5 (S)	%	69	27-95		01/21/20 09:47	
p-Terphenyl-d14 (S)	%	84	11-147		01/21/20 09:47	
Phenol-d5 (S)	%	24	10-42		01/21/20 09:47	

LABORATORY CONTROL SAMPLE: 2508088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/L	0.1	0.060	60	10-83	
2,4,5-Trichlorophenol	mg/L	0.1	0.082	82	39-101	
2,4,6-Trichlorophenol	mg/L	0.1	0.080	80	39-109	
2,4-Dinitrotoluene	mg/L	0.1	0.085	85	39-111	
2-Methylphenol(o-Cresol)	mg/L	0.1	0.071	71	29-86	
3&4-Methylphenol(m&p Cresol)	mg/L	0.2	0.13	65	22-84	
Hexachloro-1,3-butadiene	mg/L	0.1	0.055	55	10-90	
Hexachlorobenzene	mg/L	0.1	0.056	56	31-117	
Hexachloroethane	mg/L	0.1	0.056	56	10-81	
Nitrobenzene	mg/L	0.1	0.079	79	40-96	
Pentachlorophenol	mg/L	0.1	0.065	65	33-121	
Pyridine	mg/L	0.1	0.045	45	10-52	
2,4,6-Tribromophenol (S)	%			78	33-108	
2-Fluorobiphenyl (S)	%			74	19-93	
2-Fluorophenol (S)	%			48	10-59	
Nitrobenzene-d5 (S)	%			76	27-95	
p-Terphenyl-d14 (S)	%			88	11-147	
Phenol-d5 (S)	%			30	10-42	

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

MATRIX SPIKE SAMPLE: 2508089		50247005001	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
1,4-Dichlorobenzene	mg/L	ND	1	0.53	53	13-72	
2,4,5-Trichlorophenol	mg/L	ND	1	0.81	81	36-101	
2,4,6-Trichlorophenol	mg/L	ND	1	0.80	80	30-106	
2,4-Dinitrotoluene	mg/L	ND	1	0.79	79	36-97	
2-Methylphenol(o-Cresol)	mg/L	ND	1	0.69	69	24-84	
3&4-Methylphenol(m&p Cresol)	mg/L	ND	2	1.3	63	17-82	
Hexachloro-1,3-butadiene	mg/L	ND	1	0.48	48	10-82	
Hexachlorobenzene	mg/L	ND	1	0.53	53	20-99	
Hexachloroethane	mg/L	ND	1	0.48	48	10-73	
Nitrobenzene	mg/L	ND	1	0.74	74	32-92	
Pentachlorophenol	mg/L	ND	1	0.65	65	27-122	
Pyridine	mg/L	ND	1	0.48	48	10-55	
2,4,6-Tribromophenol (S)	%				75	33-108	
2-Fluorobiphenyl (S)	%				70	19-93	
2-Fluorophenol (S)	%				43	10-59	
Nitrobenzene-d5 (S)	%				72	27-95	
p-Terphenyl-d14 (S)	%				87	11-147	
Phenol-d5 (S)	%				29	10-42	

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### QUALITY CONTROL DATA

Project: Reed Manufacturing

Pace Project No.: 50247235

QC Batch: 543437

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50247235001

SAMPLE DUPLICATE: 2507595

Parameter	Units	50247262001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.5	10.4	2	5	

SAMPLE DUPLICATE: 2507596

Parameter	Units	50247159002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.9	13.5	3	5	

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## QUALIFIERS

Project: Reed Manufacturing

Pace Project No.: 50247235

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Reed Manufacturing

Pace Project No.: 50247235

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50247235001	WC-1	EPA 3546	543451	EPA 8082	543522
50247235001	WC-1	EPA 3010	543465	EPA 6010	543668
50247235001	WC-1	EPA 7470	543501	EPA 7470	543625
50247235001	WC-1	EPA 3510	543603	EPA 8270	543665
50247235001	WC-1	SM 2540G	543437		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Project #: 50247235

Date/Time and Initials of person examining contents: JLK 1-17-20 1345

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  Yes  No Seals Intact:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer: 1 2 3 4 5 6 A B C D E F  Ice Type:  Wet  Blue  None | Samples collected today and on ice:  Yes  No  N/A

Cooler Temperature: 1.1/1.1 Ice Visible in Sample Containers?:  Yes  No  N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?  Yes  No  N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		X	All containers needing acid/base pres. Have been checked? exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			X
Chain of Custody Present	X		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			
Chain of Custody Filled Out:	X		Dissolved Metals field filtered?:			X
Short Hold Time Analysis (<72hr)? Analysis:		X	Headspace Wisconsin Sulfide			X
Time 5035A TC placed in Freezer or Short Holds To Lab:			Residual Chlorine Check (SVOC 625 Pest/PCB 608) Residual Chlorine Check (Total/Amenable/Free Cyanide)	Present	Absent	N/A X X
Rush TAT Requested: <u>4 day</u>	X		Headspace in VOA Vials (>6mm):			X
Containers Intact?:	X		Trip Blank Present?		X	
Sample Labels (IDs/Dates/Times) Match COC? Except TCs, which only require sample ID	X		Trip Blank Custody Seals?:		X	
Extra labels on Terracore Vials (soils only)?		X				

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





**Source Area Remediation Report  
Reed Manufacturing Services – Franklin, IN  
State Cleanup Site # 2013-42015**

**APPENDIX B**

**REMEDIATION PHOTOGRAPHS**



**Photo 1:** Trees/foliage in excavation area prior to removal (February 10)



**Photo 2:** Excavation area cleared of trees; fencing to enclose work area in place (February 11)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 3:** Begin excavation adjacent to concrete cylinder (February 12)



**Photo 4:** Soil removed as of end of day on February 12

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 5:** Continued excavation (February 13)



**Photo 6:** Excavation area mostly complete (February 17)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 7:** Excavator loading into dump truck; clay layer and debris observed in NE corner of excavation area (February 18)



**Photo 8:** Remaining soil to be excavated in NE corner of excavation area (February 18)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 9:** Completed excavation area (February 19)



**Photo 10:** Broken concrete slabs removed from eastern side of excavation area (February 19)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 11:** Trench into groundwater for Injection Line 3; Injection Line 2 on the left (February 20)



**Photo 12:** Placement of Injection Line 3 on pea gravel waiting for additional gravel (February 20)





**Photo 13:** Injection Lines 1-4 completed (February 20)



**Photo 14:** Trench for Injection Line 5 (February 21)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 15:** Infiltration Gallery injection lines placement completed (February 21)



**Photo 16:** Beginning of backfill (February 24)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 17:** Mounded soil around injection lines for stability during backfill (February 24)



**Photo 18:** Backfill extending to the western edge of excavation area (February 25)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 19:** Continued backfill of excavation area (February 26)



**Photo 20:** Completed backfill of excavation area (February 27)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020





**Photo 21:** New adaptor placed on Injection Lines to connect to injection hose (March 3)



**Photo 22:** Injection hose hooked up to injection line (March 4)



**Photo 23:** Final grade with hydroseed looking northeast (April 10)



**Photo 24:** Final grade with hydroseed looking west (April 10)

**Title:** Source Area Remediation  
**Site:** Reed Manufacturing Services

**Date:** February-April 2020



**Source Area Remediation Report  
Reed Manufacturing Services – Franklin, IN  
State Cleanup Site # 2013-42015**

**APPENDIX C**

**WASTE DISPOSAL DOCUMENTATION**

1

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: B

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load available upon request to CGS SERVICES, INC PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161 by acknowledge that documentation that supports the waste determination will be made

Company Name: \_\_\_\_\_

Driver's Signature: Clinton Miller

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
Filled out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: \_\_\_\_\_

Address: \_\_\_\_\_

Volume (Weight): 19.90

Authorized Signature: Kelley

Date: 2-12-20



11584



2

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load available upon request to I CGS SERVICES, INC PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161 by acknowledge that documentation that supports the waste determination will be made

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site In \_\_\_\_\_ filled out by \_\_\_\_\_ (For Office Use Only)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: T37  
Address: \_\_\_\_\_ Volume (Weight): 20.21  
Authorized Signature: Kelley Hill Date: 2-12-20



11584

3

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens Excavating Driver's Signature: Brian

Mailing Address: \_\_\_\_\_ Date: 2-12-20

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
Filed out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 14.31

Authorized Signature: [Signature] Date: 2-12-20



11584

4

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: E

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-12-20

Disposal Site Info (Filled out by Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 16.40  
Authorized Signature: [Signature] Date: 2-12-20



11584

5

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following: Yes No N/A

Generator Name and Address	p	o	o
Acceptable Waste Name and Process Generating the Waste	p	o	o
Waste is Non-Hazardous	p	o	o
Acceptable Composition and Physical Characteristics	p	o	o
Complete Sample Information and/or SDSs	p	o	o
Properly Signed by the Generator	p	o	o
State Approval Required and Granted	o	o	p

Waste Category: 37A Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: [Signature] Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowels Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Inf. For Office Use Only  
Site Name: CGS SERVICES, INC illed out by Disposal Site)  
Address: PO BOX 212 IDEM Facility ID #: 73-1  
2920 E US HWY 52 Volume (Weight): 15.97  
MORRISTOWN, IN 46161 Date: 2-10-20  
Authorized Signature: [Signature]



11584

6

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Certification Checklist

Has completed profile been submitted including the following: Yes No N/A

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: A

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584

Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter) w/o 153750

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load available upon request to \_\_\_\_\_ by acknowledge that documentation that supports the waste determination will be made available upon request to \_\_\_\_\_

Company Name: CGS SERVICES, INC PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161 Driver's Signature: Jan Kanick Date: 02/12/2020

Mailing Address: \_\_\_\_\_ Disposal Site ID: \_\_\_\_\_ filled out by Disposal Site

Site Name: CGS SERVICES, INC PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161 IDEM Facility ID #: 731

Address: \_\_\_\_\_ Volume (Weight): 18.05

Authorized Signature: [Signature] Date: 2-12-20



11584

7

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to \_\_\_\_\_

Company Name: CGS SERVICES, INC Driver's Signature: [Signature]  
Mailing Address: PO BOX 212 Date: \_\_\_\_\_  
2920 E US HWY 52  
MORRISTOWN, IN 46161

Disposal Site In: CGS SERVICES, INC filled out by Disposal Site)  
Site Name: PO BOX 212 IDEM Facility ID #: 731  
Address: 2920 E US HWY 52 Volume (Weight): 17.40  
Authorized Signature: [Signature] Date: 2-12-20  
MORRISTOWN, IN 46161



11584

3

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<u>φ</u>	<u>o</u>	<u>o</u>
Acceptable Waste Name and Process Generating the Waste	<u>φ</u>	<u>o</u>	<u>o</u>
Waste is Non-Hazardous	<u>φ</u>	<u>o</u>	<u>o</u>
Acceptable Composition and Physical Characteristics	<u>φ</u>	<u>o</u>	<u>o</u>
Complete Sample Information and/or SDSs	<u>φ</u>	<u>o</u>	<u>o</u>
Properly Signed by the Generator	<u>φ</u>	<u>o</u>	<u>o</u>
State Approval Required and Granted	<u>o</u>	<u>o</u>	<u>φ</u>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to \_\_\_\_\_

Company Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

filled out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 22.53

Authorized Signature: [Signature]

Date: 2-12-20



11584

9

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	✓	○	○
Acceptable Waste Name and Process Generating the Waste	✓	○	○
Waste is Non-Hazardous	✓	○	○
Acceptable Composition and Physical Characteristics	✓	○	○
Complete Sample Information and/or SDSs	✓	○	○
Properly Signed by the Generator	✓	○	○
State Approval Required and Granted	○	○	✓

Waste Category: 37A Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: SWEN 89th

Driver's Signature: Brin

Mailing Address: \_\_\_\_\_

Date: 2-12-20

**Disposal Site In (filled out by Disposal Site)**

Site Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 17.78

Authorized Signature: [Signature]

Date: 2-12-20



11584



10

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: \_\_\_\_\_

37B  
CTZ

Disposal Method: \_\_\_\_\_

B

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_

Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Boyles Construction

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 2-12-20

Disposal Site Information

CGS SERVICES, INC  
PO BOX 212  
3920 E US HWY 52  
MORRISTOWN, IN 46161

led out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 731

Address: \_\_\_\_\_

Volume (Weight): 20.43 T

Authorized Signature: [Signature]

Date: 2-12-2020



11584

11

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Information (to be filled out by Disposal Site)

Site Name: \_\_\_\_\_

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

IDEM Facility ID #: 734

Address: \_\_\_\_\_

Volume (Weight): 20.35T

Authorized Signature: [Signature]

Date: 2-12-2020



11584

12

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: E

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

w/b 153741

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 02/12/2020

Disposal Site Information (to be filled out by Disposal Site)

Site Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 23.24

Authorized Signature: [Signature]

Date: 2-12-2020



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered to me. I acknowledge that documentation that supports the waste determination will be made available upon request to the CGS SERVICES, INC PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info (to be filled out by Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 22.58  
Authorized Signature: [Signature] Date: 2-12-20



11584

14

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load and the destination of the load. I acknowledge that documentation that supports the waste determination will be made available upon request to the company.

Company Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 2-12-20

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

led out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 27.08

Authorized Signature: [Signature]

Date: 2-12-20



11584

15

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following: Yes No N/A

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 6

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

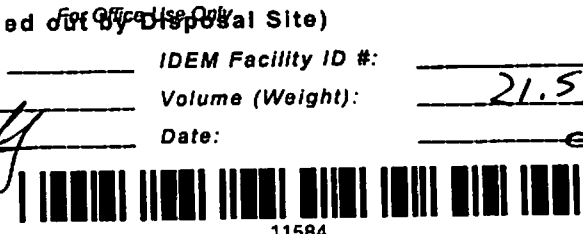
Landfill Verification: \_\_\_\_\_ Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens #89 Driver's Signature: Brian  
Mailing Address: \_\_\_\_\_ Date: 2-12-20

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 21.53  
Authorized Signature: [Signature] Date: 2-12-20



Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: A

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bardes Construction Driver's Signature: Ben Schin  
Mailing Address: \_\_\_\_\_ Date: 2-12-20

Disposal Site Info CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 filled out by (Use Only Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 23.601  
Authorized Signature: Kelly... Date: 2-12-20



17

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following: Yes No N/A

Generator Name and Address	p	o	o
Acceptable Waste Name and Process Generating the Waste	p	o	o
Waste is Non-Hazardous	p	o	o
Acceptable Composition and Physical Characteristics	p	o	o
Complete Sample Information and/or SDSs	p	o	o
Properly Signed by the Generator	p	o	o
State Approval Required and Granted	o	o	p

Waste Category: 37B Disposal Method: 5

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584

Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowels 7 Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 filled out by Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 731  
Address: \_\_\_\_\_ Volume (Weight): 21.78  
Authorized Signature: [Signature] Date: 2-12-20



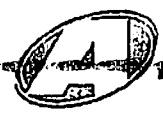
11584



18

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

w/o

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origin of the load delivered to the Company. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the CGS SERVICES, INC.

Company Name: CGS SERVICES, INC.  
2920 E US HWY 52  
MORRISTOWN, IN 46161

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 02/12/2020

Disposal Site Information (to be filled out by Disposal Site)

Site Name: CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

IDEM Facility ID #: 73-1

Address: [Signature]

Volume (Weight): 23.64 T

Authorized Signature: [Signature]

Date: 2-12-20



11584

19

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	φ	o	o
Acceptable Waste Name and Process Generating the Waste	φ	o	o
Waste is Non-Hazardous	φ	o	o
Acceptable Composition and Physical Characteristics	φ	o	o
Complete Sample Information and/or SDSs	φ	o	o
Properly Signed by the Generator	φ	o	o
State Approval Required and Granted	o	o	φ

Waste Category: 37A Disposal Method: S

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_

Driver's Signature: [Signature]  
Date: \_\_\_\_\_

**Disposal Site Information (to be filled out by Disposal Site)**

Site Name: \_\_\_\_\_  
Address: \_\_\_\_\_

IDE M Facility ID #: 734  
Volume (Weight): 23.22T

Authorized Signature: [Signature]

Date: 2-12-2020

CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161



11584

20

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	φ	o	o
Acceptable Waste Name and Process Generating the Waste	φ	o	o
Waste is Non-Hazardous	φ	o	o
Acceptable Composition and Physical Characteristics	φ	o	o
Complete Sample Information and/or SDSs	φ	o	o
Properly Signed by the Generator	φ	o	o
State Approval Required and Granted	o	o	φ

Waste Category: 37A Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 2-12-20

**Disposal Site Information (Office Use Only)**

Site Name: \_\_\_\_\_

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 24.52T

Authorized Signature: [Signature]

Date: 2-12-2020



11584

21

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	✓	○	○
Acceptable Waste Name and Process Generating the Waste	✓	○	○
Waste is Non-Hazardous	✓	○	○
Acceptable Composition and Physical Characteristics	✓	○	○
Complete Sample Information and/or SDSs	✓	○	○
Properly Signed by the Generator	✓	○	○
State Approval Required and Granted	○	○	✓

Waste Category: 37A Disposal Method: A

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Dwars H&S

Driver's Signature: Brian  
Date: 2-12-20

**Disposal Site Information (to be filled out by Disposal Site)**

Site Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_  
Authorized Signature: \_\_\_\_\_

Volume (Weight): 19.48 T  
Date: 2/12/2020



11584

22

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Dowley Construction Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-12-20

**Disposal Site Information (to be filled out by Disposal Site)**

Site Name: \_\_\_\_\_ IDEM Facility ID #: 731  
Address: CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 Volume (Weight): 19.65T  
Authorized Signature: [Signature] Date: 2.12.2020



11584

23

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Information (For Office Use Only)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 Volume (Weight): 20.80T  
Authorized Signature: [Signature] Date: 2-12-2020



11584

24

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: CTS #120 Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info (For Office Use Only) CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161  
Site Name: \_\_\_\_\_ led out by Disposal Site)  
Address: \_\_\_\_\_ IDEM Facility ID #: 737  
Authorized Signature: [Signature] Volume (Weight): 10.64  
Date: 2-13-20



11584

23

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	Y	N	N/A
Acceptable Waste Name and Process Generating the Waste	Y	N	N/A
Waste is Non-Hazardous	Y	N	N/A
Acceptable Composition and Physical Characteristics	Y	N	N/A
Complete Sample Information and/or SDSs	Y	N	N/A
Properly Signed by the Generator	Y	N	N/A
State Approval Required and Granted	N	N	Y

Waste Category: 370 Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification: \_\_\_\_\_ Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 22.61  
Authorized Signature: [Signature] Date: 2-13-20



11584



Landfill Used for Disposal: CGS Services, Inc.  
 Generator Name: Reed Manufacturing Profile Number: 11584  
 Waste Name: Contaminated Soil



**Advanced Disposal**

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 5  
 Recertification Date: CTC  
 Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_  
 Conditions of Approval:

**Landfill Verification** Waste Determination: \_\_\_\_\_ Verification Number: 11584  
 Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens # 89 Driver's Signature: Brian  
 Mailing Address: \_\_\_\_\_ Date: 2-13-20

**Disposal Site Info:** CGS SERVICES, INC  
 PO BOX 212  
 2920 E US HWY 52  
 MORRISTOWN, IN 46161  
 Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
 Address: \_\_\_\_\_ Volume (Weight): 19.48  
 Authorized Signature: [Signature] Date: 2-13-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 6

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 23.79  
Authorized Signature: [Signature] Date: 2-13-20



11584

28

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	✓	○	○
Acceptable Waste Name and Process Generating the Waste	✓	○	○
Waste is Non-Hazardous	✓	○	○
Acceptable Composition and Physical Characteristics	✓	○	○
Complete Sample Information and/or SDSs	✓	○	○
Properly Signed by the Generator	✓	○	○
State Approval Required and Granted	○	○	✓

Waste Category: 37B Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161  
Site Name: \_\_\_\_\_ Filled out by Disposal Site)  
Address: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Volume (Weight): 22.14  
Authorized Signature: [Signature] Date: 2-13-20



11584

23

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



### Certification Checklist

Has completed profile been submitted including the following: Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction Driver's Signature: B. Sola  
Mailing Address: \_\_\_\_\_ Date: 2-13-20

Disposal Site Info Filed out by Disposal Site)  
CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 IDEM Facility ID: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 21.26  
Authorized Signature: [Signature] Date: 2-13-20



11584

30

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 370 Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction Driver's Signature: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC. PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161 **illed out by Disposal Site)**

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 25.40

Authorized Signature: Betty Huff Date: 5-13-20



11584

31

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



### Certification Checklist

Has completed profile been submitted including the following: Yes No N/A

Generator Name and Address	p	o	o
Acceptable Waste Name and Process Generating the Waste	p	o	o
Waste is Non-Hazardous	p	o	o
Acceptable Composition and Physical Characteristics	p	o	o
Complete Sample Information and/or SDSs	p	o	o
Properly Signed by the Generator	p	o	o
State Approval Required and Granted	o	o	p

Waste Category: 37A Disposal Method: LS

Recertification Date: CTR

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowels Driver's Signature: Ricky Connor  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info filled out by Disposal Site  
Site Name: CGS SERVICES, INC IDEM Facility ID #: 73-1  
Address: PO BOX 212 Volume (Weight): 23.75  
2920 E US HWY 52 Date: 213-20  
MORRISTOWN, IN 46161  
Authorized Signature: [Signature]



Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	φ	o	o
Acceptable Waste Name and Process Generating the Waste	φ	o	o
Waste is Non-Hazardous	φ	o	o
Acceptable Composition and Physical Characteristics	φ	o	o
Complete Sample Information and/or SDSs	φ	o	o
Properly Signed by the Generator	φ	o	o
State Approval Required and Granted	o	o	φ

Waste Category: 37A Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Meyer

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site In LUS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

filled out by Disposal Site

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 23.18

Authorized Signature: [Signature]

Date: 2-13-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: LS

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Trucking Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 23.94  
Authorized Signature: [Signature] Date: 2-13-20

CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

illed out by Disposal Site)



11584



Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 370 Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info led out by (Disposal Site)  
Site Name: CGS SERVICES, INC IDEM Facility ID #: 73-1  
Address: PO BOX 212 Volume (Weight): 22.88  
2920 E US HWY 52 Date: 2-13-20  
MORRISTOWN, IN 46161  
Authorized Signature: [Signature]



11584

35

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: CTS 120 Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Information For Office Use Only  
Site Name: \_\_\_\_\_ (ed out by Disposal Site)  
Address: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 IDEM Facility ID #: 731  
Authorized Signature: [Signature] Volume (Weight): 21.69  
Date: 2-13-20



11584

30

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens \* 89 Driver's Signature: Brian

Mailing Address: \_\_\_\_\_ Date: 2-13-20

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

illed out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 20.09

Authorized Signature: [Signature] Date: 2-13-20



11584

37

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

### Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
Filled out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 19.76  
Authorized Signature: \_\_\_\_\_ Date: 2-13-20



11584

38

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-13-20

Disposal Site Information (For Office Use Only) ed out by Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 731  
Address: \_\_\_\_\_ Volume (Weight): 20.95  
Authorized Signature: [Signature] Date: 2-13-20



11584

39

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

led out by (Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 22.23

Authorized Signature: [Signature]

Date: 2-13-20



11584

(40)

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

**Disposal Site Information (to be filled out by Disposal Site)**

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161 Volume (Weight): 20.72T

Authorized Signature: [Signature] Date: 2-13-2020



11584

41

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Meyer

Driver's Signature: [Signature]  
Date: \_\_\_\_\_

Disposal Site Inform CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

For Office Use Only  
out by Disposal Site)  
IDEM Facility ID #: \_\_\_\_\_

Address: \_\_\_\_\_  
Authorized Signature: [Signature]

Volume (Weight): 731  
21.32  
Date: 2-13-2020



11584



42

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: A

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: Rocky  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Information (For Office Use Only) out by Disposal Site)  
Site Name: CGS SERVICES, INC IDEM Facility ID #: 73-1  
PO BOX 212  
2920 E US HWY 52 Volume (Weight): 21.58  
MORRISTOWN, IN 46161 Date: 1-13-2020  
Authorized Signature: [Signature]



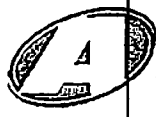
11584

43

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
id out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 21.16  
Authorized Signature: [Signature] Date: 2-13-20



11584

44

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: A

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

### Disposal Site Info: CGS SERVICES, INC

Site Name: CGS Services IDEM Facility ID #: 73-1

Address: MORRISTOWN, TN 46161 Volume (Weight): 21.54

Authorized Signature: [Signature] Date: 2-13-20



11584

45

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Duens \* 89 Driver's Signature: Brian  
Mailing Address: \_\_\_\_\_ Date: 2-13-20

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 116.36

Authorized Signature: [Signature] Date: 2-13-20



11584

46

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: A

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
ed out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 21.04

Authorized Signature: [Signature] Date: 2-13-20



11584

47

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	✓	○	○
Acceptable Waste Name and Process Generating the Waste	✓	○	○
Waste is Non-Hazardous	✓	○	○
Acceptable Composition and Physical Characteristics	✓	○	○
Complete Sample Information and/or SDSs	✓	○	○
Properly Signed by the Generator	✓	○	○
State Approval Required and Granted	○	○	✓

Waste Category: 37B Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Howells

Driver's Signature: Rocky Turner

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Information: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRIS TOWN, IN 46161

For Office Use Only  
ed out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 731

Address: Howells

Volume (Weight): 19.54

Authorized Signature: \_\_\_\_\_

Date: 2-13-20

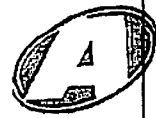


11584

28

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: 37A LD

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Verification Number: 11584

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-13-20

Disposal Site Information For Office Use Only (to be filled out by Disposal Site)  
Site Name: CGS SERVICES, INC IDEM Facility ID #: 731  
Address: PO BOX 212 Volume (Weight): 20.37  
2920 E US HWY 52 Date: 2-13-20  
MORRIS TOWN, IN 46161  
Authorized Signature: [Signature]



11584

49

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 370 Disposal Method: A

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

### Disposal Site Info:

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

### For Office Use Only led out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 731

Address: \_\_\_\_\_

Volume (Weight): 23.06

Authorized Signature: [Signature]

Date: 2-13-20



11584

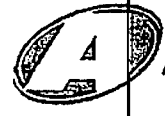


50

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	φ	o	o
Acceptable Waste Name and Process Generating the Waste	φ	o	o
Waste is Non-Hazardous	φ	o	o
Acceptable Composition and Physical Characteristics	φ	o	o
Complete Sample Information and/or SDSs	φ	o	o
Properly Signed by the Generator	φ	o	o
State Approval Required and Granted	o	o	φ

Waste Category: 370 Disposal Method: E

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

**Disposal Site Info:**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

**For Office Use Only (to be filled out by Disposal Site)**

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 20.34

Authorized Signature: [Signature]

Date: 2/3/20



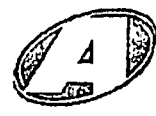
11584

(51)

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste Is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: E

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

ed out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 21.63T

Authorized Signature: [Signature] Date: 2-13-20



11584

(52)

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval: \_\_\_\_\_

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Meyer Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info For Office Use Only led out by Disposal Site)

Site Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 20.24T

Authorized Signature: [Signature] Date: 2-13-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 filled out by Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 20.01  
Authorized Signature: [Signature] Date: 2-13-20



Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	Y	N	N/A
Acceptable Waste Name and Process Generating the Waste	Y	N	N/A
Waste is Non-Hazardous	Y	N	N/A
Acceptable Composition and Physical Characteristics	Y	N	N/A
Complete Sample Information and/or SDSs	Y	N	N/A
Properly Signed by the Generator	Y	N	N/A
State Approval Required and Granted	N	N	Y

Waste Category: 37B Disposal Method: A

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Empty box for conditions of approval.

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: CTG #120 Driver's Signature: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Inf.

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

illed out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: Highway

Volume (Weight): 22.11

Authorized Signature: \_\_\_\_\_

Date: 2-13-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 370 Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens 89 Driver's Signature: Brian

Mailing Address: \_\_\_\_\_ Date: 2-13-20

Disposal Site Information (For Office Use Only)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 19.34T

Authorized Signature: [Signature] Date: 2/13/2020



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Information (to be filled out by Disposal Site)

Site Name: CGS SERVICES, INC IDEM Facility ID #: 731

Address: PO BOX 212 Volume (Weight): 19.977

Authorized Signature: [Signature] Date: 2.13.2020

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161



11584

57

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Dowels Y

Driver's Signature: Ricky Jones

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

**Disposal Site Information (to be filled out by Disposal Site)**

Site Name: \_\_\_\_\_  
Address: \_\_\_\_\_

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

IDEM Facility ID #: \_\_\_\_\_

Volume (Weight): \_\_\_\_\_

Authorized Signature: [Signature]

Date: 2-13-2020

734  
20.62  
2-13-2020



11584



Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: A

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty rectangular box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Rowles Construction

Driver's Signature: Ben Schick

Mailing Address: \_\_\_\_\_

Date: 2-13-20

Disposal Site Information

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

For Office Use Only  
out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 18.07T

Authorized Signature: [Signature]

Date: 2.13.2020



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Advanced Disposal**

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

**Disposal Site Information**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

**For Office Use Only  
Site By Disposal Site)**

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 21.71 T

Authorized Signature: [Signature]

Date: 2.13.2020



11584

60

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161 (To be filled out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 19.56 T

Authorized Signature: [Signature] Date: 2/3/20



11584

(61)

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following: Yes No N/A

	Yes	No	N/A
Generator Name and Address	p	o	o
Acceptable Waste Name and Process Generating the Waste	p	o	o
Waste is Non-Hazardous	p	o	o
Acceptable Composition and Physical Characteristics	p	o	o
Complete Sample Information and/or SDSs	p	o	o
Properly Signed by the Generator	p	o	o
State Approval Required and Granted	o	o	p

Waste Category: 37A Disposal Method: A

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: GTS #120

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Info  
Site Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Authorized Signature: [Signature]

For Office Use Only  
Filed out by Disposal Site)

IDEM Facility ID #: 731

Volume (Weight): 22.93

Date: 2-17-20



11584

62

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 2-17-20

Disposal Site Information

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
Filled out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 731

Address: \_\_\_\_\_

Volume (Weight): 24.14

Authorized Signature: [Signature]

Date: 2-17-20



11584

63

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification** Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: Arthur Huller  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

**Disposal Site Info** CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 62  
MORRISTOWN, IN 46161  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 21.31  
Authorized Signature: [Signature] Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bovels 7

Driver's Signature: Rocky Lerner

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
ed out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 21.83

Authorized Signature: [Signature]

Date: 2-17-20



11584

63

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Info:

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
id out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 21.24

Authorized Signature: [Signature]

Date: 2-17-20



11584

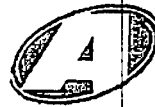


66

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTR

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-17-20

### Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

led out by Disposal Site) For Office Use Only

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 19.83  
Authorized Signature: [Signature] Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: A

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens # 89 Driver's Signature: Brign  
Mailing Address: \_\_\_\_\_ Date: 2-17-20

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY, 52  
MORRISTOWN, IN 46161  
led out by (Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 20.58  
Authorized Signature: [Signature] Date: 2-17-20



11584

65

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: Tom Karicki

Mailing Address: \_\_\_\_\_

Date: 02/17/2020

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

led out by Disposal Site) For Office Use Only

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 21.94

Authorized Signature: [Signature]

Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

### Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Official Use Only  
illed out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 21.29

Authorized Signature: [Signature]

Date: 2-17-20



11584

70

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161  
led out by Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 731  
Address: \_\_\_\_\_ Volume (Weight): 20.88  
Authorized Signature: [Signature] Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: 37B CTZ

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Stew Meyer Trucking Driver's Signature: \_\_\_\_\_  
Mailing Address: 26180 W. Hancock Rd Date: 2-17-19

Disposal Site Info: CGS SERVICES, INC led out by Disposal Site)  
Site Name: PO BOX 212 IDEM Facility ID #: \_\_\_\_\_  
Address: 2920 E US HWY 52 Volume (Weight): 73-1  
MORRISTOWN, TN 46161 Date: 21.88  
Authorized Signature: [Signature] Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	φ	o	o
Acceptable Waste Name and Process Generating the Waste	φ	o	o
Waste is Non-Hazardous	φ	o	o
Acceptable Composition and Physical Characteristics	φ	o	o
Complete Sample Information and/or SDSs	φ	o	o
Properly Signed by the Generator	φ	o	o
State Approval Required and Granted	o	o	φ

Waste Category: 37A Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: GTS 120 Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

led out by (Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 20.53

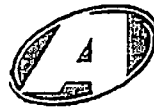
Authorized Signature: [Signature] Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Date: 2-17-20

Disposal Site Inf

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
Filled out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 20.76

Authorized Signature: [Signature]

Date: 2-17-20



11584



Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: S

Recertification Date: 6/22

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: Clinton Archer

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Off-site Use Only  
Filled out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: T31

Address: \_\_\_\_\_

Volume (Weight): 18.65

Authorized Signature: \_\_\_\_\_

Date: 2-17-20



11584

75

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowels 17 Driver's Signature: Rodney James  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

**Filed out by Disposal Site**

Site Name: \_\_\_\_\_ IDEM Facility ID #: 731  
Address: \_\_\_\_\_ Volume (Weight): 19.34  
Authorized Signature: [Signature] Date: 2-17-20



11584

76

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: S

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

Filed out by (Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 17.00

Authorized Signature: [Signature] Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: 37A CTE

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction

Driver's Signature: B. Schil

Mailing Address: \_\_\_\_\_

Date: 2-17-20

### Disposal Site Info

CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

Filed out by Disposal Site

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 17.53

Authorized Signature: [Signature]

Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: A

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens #89 Driver's Signature: Brian  
Mailing Address: \_\_\_\_\_ Date: 2-17-20

**Disposal Site Info:**

CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

filled out by (Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 17.98  
Authorized Signature: [Signature] Date: 2/17/20



11584

79

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer

Driver's Signature: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

filled out by Disposal Site

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 19.17

Authorized Signature: \_\_\_\_\_

Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	0	0	0
Acceptable Waste Name and Process Generating the Waste	0	0	0
Waste is Non-Hazardous	0	0	0
Acceptable Composition and Physical Characteristics	0	0	0
Complete Sample Information and/or SDSs	0	0	0
Properly Signed by the Generator	0	0	0
State Approval Required and Granted	0	0	0

Waste Category: 37B Disposal Method: 5

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_

Driver's Signature: Jan Kaniesh  
Date: 02/17/2020

**Disposal Site Information**

Site Name: \_\_\_\_\_  
Address: \_\_\_\_\_

CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

IDEM Facility ID #: 73-1  
Volume (Weight): 18.90  
Date: 2.17.2020

Authorized Signature: [Signature]



11584

86

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Reed Truck Driver's Signature: \_\_\_\_\_  
Mailing Address: 36190 W. ... Date: \_\_\_\_\_

Disposal Site Information (to be filled out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 Volume (Weight): 18.65T  
Authorized Signature: [Signature] Date: 2/17/2020



11584



Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: A

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

**Disposal Site Information (For Office Use Only)**

Site Name: CGS SERVICES, INC. PO BOX 212 IDEM Facility ID #: 73-1

Address: 2920 E US HWY 52 MORRISTOWN, IN 46161 Volume (Weight): 17.59T

Authorized Signature: [Signature] Date: 2-17-2020



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: CTS 120

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

**Disposal Site Info** (to be filled out by Disposal Site)

Site Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 20.3 TT

Authorized Signature: [Signature]

Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ Date: 1-17-20

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

**For Office Use Only  
led out by Disposal Site)**

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 20.30

Authorized Signature: [Signature] Date: 1-17-20



11584

35

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowels 7 Driver's Signature: Ruby Loren  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

Site Name: \_\_\_\_\_ IDEM Facility ID #: 731

Address: \_\_\_\_\_ Volume (Weight): 17.62

Authorized Signature: Helfstorf Date: 2-17-20



11584

(86)

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: S

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

**For Office Use Only**

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 19.16

Authorized Signature: [Signature]

Date: 2-17-20



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	φ	o	o
Acceptable Waste Name and Process Generating the Waste	φ	o	o
Waste is Non-Hazardous	φ	o	o
Acceptable Composition and Physical Characteristics	φ	o	o
Complete Sample Information and/or SDSs	φ	o	o
Properly Signed by the Generator	φ	o	o
State Approval Required and Granted	o	o	φ

Waste Category: 37B Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info (filled out by Disposal Site)

Site Name: CGS SERVICES, INC IDEM Facility ID #: 73-1

Address: PO BOX 212 Volume (Weight): 17.31T

Authorized Signature: [Signature] Date: 2-17-20

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161



11584

58

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Conservation Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-17-20

Disposal Site Info: CGS SERVICES, INC **For Office Use Only** led out by Disposal Site)  
 PO BOX 212  
 2920 E US HWY 52  
 MORRISTOWN, IN 46161

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
 Address: \_\_\_\_\_ Volume (Weight): 18.92  
 Authorized Signature: [Signature] Date: 2-17-20



11584

39

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Duns # 89 Driver's Signature: Brian

Mailing Address: \_\_\_\_\_ Date: 2-17-20

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

illed out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 731

Address: \_\_\_\_\_ Volume (Weight): 18.25

Authorized Signature: [Signature] Date: 2-17-20



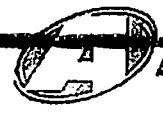
11584



90

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Read Manufacturing Profile Number: 1084



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	φ	o	o
Acceptable Waste Name and Process Generating the Waste	φ	o	o
Waste is Non-Hazardous	φ	o	o
Acceptable Composition and Physical Characteristics	φ	o	o
Complete Sample Information and/or SDSs	φ	o	o
Properly Signed by the Generator	φ	o	o
State Approval Required and Granted	o	o	φ

Waste Category: 37B Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty rectangular box for conditions of approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Nejni Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: led out by Disposal Site

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 19.27 T

Authorized Signature: [Signature] Date: 1/17/20



11584

91

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty rectangular box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: Jon Kanish  
Mailing Address: \_\_\_\_\_ Date: 02/17/2020

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

**Site Name**

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 2025T

Authorized Signature: [Signature] Date: 2-17-20



11584

92

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: State Street LLC Driver's Signature: [Signature]

Mailing Address: 20180 W. Hancock Rd Date: 7-17-20

### Disposal Site Info For Office Use Only (filled out by Disposal Site)

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 19.58 T

Authorized Signature: [Signature] Date: 2-17-20



11584

93

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste Is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info CGS SERVICES, INC.  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 **filled out by Disposal Site**

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 18.17T  
Authorized Signature: [Signature] Date: 2-17-20



11584

34

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

### Disposal Site Information

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
Filled out by Disposal Site

Site Name: \_\_\_\_\_ IDEM Facility ID #: 737

Address: \_\_\_\_\_ Volume (Weight): 20.15

Authorized Signature: [Signature] Date: 2-18-20



11584

95

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following: Yes No N/A

Generator Name and Address	p	o	o
Acceptable Waste Name and Process Generating the Waste	p	o	o
Waste is Non-Hazardous	p	o	o
Acceptable Composition and Physical Characteristics	p	o	o
Complete Sample Information and/or SDSs	p	o	o
Properly Signed by the Generator	p	o	o
State Approval Required and Granted	o	o	p

Waste Category: 37B Disposal Method: S

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584

Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bardis Construction Driver's Signature: Brindell  
Mailing Address: \_\_\_\_\_ Date: 2-18-20

Disposal Site Info CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 filled out by Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 19.61  
Authorized Signature: Hellywell Date: 2-18-20



11584



47

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 376 Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens # 89

Driver's Signature: Brian

Mailing Address: \_\_\_\_\_

Date: 2-18-20

Disposal Site Inf.

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

filled out by Disposal Site

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 18.20

Authorized Signatures: [Signature]

Date: 2-18-20



11584



95

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTC

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Date: 2-18-20

Disposal Site Info CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 **For Office Use Only**  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 21.16  
Authorized Signature: \_\_\_\_\_ Date: 2-18-20



11584

99

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37A Disposal Method: B

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584

Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC  
 PO BOX 212  
 2920 E US HWY 52  
 MORRISTOWN, TN 46161

filled out by Disposal Site) IDEM Facility ID #: 73-1  
 Volume (Weight): 17.81  
 Date: 2-18-20

Site Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Authorized Signature: [Signature]



11584

100

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 37B Disposal Method: S

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowels 7 Driver's Signature: Rocky Garner  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info CGS SERVICES, INC PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 17.92  
Authorized Signature: [Signature] Date: 2/16/20



11584

101

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 37B Disposal Method: S

Recertification Date: CTZ

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens \* 89 Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-18-20

Disposal Site In CGS SERVICES, INC filled out by Disposal Site  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 37661  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: [Signature] Volume (Weight): 16.601  
Authorized Signature: [Signature] Date: 2-18-20



11584

Landfill Used for Disposal: CGS Services, Inc.  
Generator Name: Reed Manufacturing Profile Number: 11584  
Waste Name: Contaminated Soil



**Advanced Disposal**

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_  
Recertification Date: \_\_\_\_\_  
Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification **Waste Determination:** \_\_\_\_\_ **Verification Number:** 11584  
**Approval Signature:** \_\_\_\_\_ **Date:** 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-18-20

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 18.53  
Authorized Signature: [Signature] Date: 2-18-20



103

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Advanced Disposal**

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Certification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 2-18-20

**Disposal Site Info:**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

illed out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 21.28

Authorized Signature: [Signature]

Date: 2-18-20



11584

104

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

**Disposal Site Info** CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 **illed out by Disposal Site)**

Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1

Address: Halfway Volume (Weight): 17.55

Authorized Signature: [Signature] Date: 2-18-20



11584

109

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



Advanced Disposal

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowels 17

Driver's Signature: Ricky L. [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

### Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

led out by (Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 16.79

Authorized Signature: [Signature]

Date: 5/8/20



11584



106

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Owens # 89

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 2-18-20

**Disposal Site Information**

*For Official Use Only*  
**Fill out by Disposal Site**

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 16.13

Authorized Signature: [Signature]

Date: 2-18-20



11584

102

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

### Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Banks Construction

Driver's Signature: Brian Schir

Mailing Address: \_\_\_\_\_

Date: 2-18-20

### Disposal Site Info

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

### For Office Use Only (to be filled out by Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 18.28

Authorized Signature: [Signature]

Date: 2-18-20



11584

108

(1-0)

Landfill Used for Disposal: CGS Services, Inc.  
 Generator Name: Reed Manufacturing Profile Number: 11584  
 Waste Name: Contaminated Soil



**Advanced Disposal**

**Certification Checklist**

	Yes	No	N/A
Has completed profile been submitted including the following:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generator Name and Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_  
 Recertification Date: \_\_\_\_\_  
 Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification** Waste Determination: \_\_\_\_\_ Verification Number: 11584  
 Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

**Disposal Site Info** CGS SERVICES, INC. **led out by Disposal Site)**  
 PO BOX 212  
 2920 E US HWY 52  
 MORRISTOWN, NJ 08661  
 Site Name: \_\_\_\_\_ IDEM Facility ID #: \_\_\_\_\_  
 Address: \_\_\_\_\_ Volume (Weight): \_\_\_\_\_  
 Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_



109

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	✓	○	○
Acceptable Waste Name and Process Generating the Waste	✓	○	○
Waste is Non-Hazardous	✓	○	○
Acceptable Composition and Physical Characteristics	✓	○	○
Complete Sample Information and/or SDSs	✓	○	○
Properly Signed by the Generator	✓	○	○
State Approval Required and Granted	○	○	✓

Waste Category: 374 Disposal Method: 3

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584

Approval Signature: [Signature] Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

**Disposal Site Information (to be filled out by Disposal Site)**

Site Name: CGS SERVICES, INC IDEM Facility ID #: 73-1  
PO BOX 212  
2920 E US HWY 52 Volume (Weight): 20.6 LT  
MORRISTOWN, TN 46161 Date: 2-18-2020

Authorized Signature: [Signature]



11584

110

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 374 Disposal Method: 3

Recertification Date: 6/22

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowels 7 Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Information (For Office Use Only)

Site Name: CGS SERVICES, INC IDEM Facility ID #: 73-1

PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

Address: \_\_\_\_\_ Volume (Weight): 19.815

Authorized Signature: [Signature] Date: 2-18-20



11584

111

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Waste Category: 379 Disposal Method: 3

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Dwans #89 Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-18-20

**Disposal Site Information (to be filled out for Official Use Only)**

Site Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161 IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 19.92 T  
Authorized Signature: [Signature] Date: 2-18-2020



11584

112

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	0	0	0
Acceptable Waste Name and Process Generating the Waste	0	0	0
Waste is Non-Hazardous	0	0	0
Acceptable Composition and Physical Characteristics	0	0	0
Complete Sample Information and/or SDSs	0	0	0
Properly Signed by the Generator	0	0	0
State Approval Required and Granted	0	0	0

Waste Category: 271 Disposal Method: 5

Recertification Date: CTE

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for Conditions of Approval]

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: 2-18-20

Disposal Site Information (to be filled out by Disposal Site)

Site Name: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161

IDEM Facility ID #: 734

Address: \_\_\_\_\_

Volume (Weight): 23.13T

Authorized Signature: [Signature]

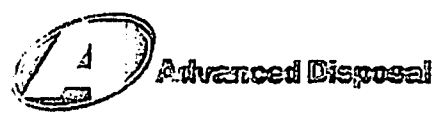
Date: 2-18-2020



11584

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 274 Disposal Method: 3

Recertification Date: 07/20

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: [Signature] Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Bowles Construction Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-18-20

Disposal Site Information (For Office Use Only)  
Site Name: \_\_\_\_\_ CGS SERVICES, INC. PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161 IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 20.60T  
Authorized Signature: [Signature] Date: 2-18-2020



11584



119

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Advanced Disposal**

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification** Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Meyer Trucking Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-19-20

Disposal Site Info: CGS SERVICES, INC (filled out for Office Use Only) (Disposal Site)  
PO BOX 212 IDEM Facility ID #: 73-1  
2920 E US HWY 52 Volume (Weight): 19.43  
MORRISTOWN, IN 46161 Date: 2-19-20  
Address: \_\_\_\_\_  
Authorized Signature: [Signature]



11584

113

Landfill Used for Disposal: EGS Services, Inc.



**Advanced Disposal**

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil

### Certification Checklist

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification** Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

### Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origin of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Trucking Driver's Signature: [Signature]  
Mailing Address: 2-19-20 Date: \_\_\_\_\_

Disposal Site Info: EGS SERVICES, INC (filled out by Disposal Site)  
PO BOX 212  
2920 E US HWY 52 IDEM Facility ID #: 73-1  
MORRISTOWN, IN 46161  
Address: \_\_\_\_\_ Volume (Weight): 19.42  
Authorized Signature: [Signature] Date: 2-19-20



11584

116

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Driver's Signature: Brest Lopez  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info CGS SERVICES, INC filled out by Disposal Site)  
PO BOX 212 IDEM Facility ID #: 73-1  
2920 E US HWY 52  
MORRISTOWN, IN 46161

Address: \_\_\_\_\_ Volume (Weight): 19.22  
Authorized Signature: Helfert Date: 2-18-20



11584

117

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Trucking

Driver's Signature: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Date: 2-19-20

**Disposal Site Info**

CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
Filled out by (Disposal Site)

Site Name: \_\_\_\_\_

IDEM Facility ID #: \_\_\_\_\_

Address: \_\_\_\_\_

Volume (Weight): 73-1  
18.98

Authorized Signature: \_\_\_\_\_

Date: 2-19-20



11584

115

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Advanced Disposal**

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Category: \_\_\_\_\_ Chemical Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:  
[Empty box for conditions of approval]

Landfill Verification: \_\_\_\_\_ Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Trucking Driver's Signature: [Signature]  
Mailing Address: 2-19-20 Date: \_\_\_\_\_

Disposal Site Info: CGS SERVICES, INC PO BOX 212 2920 E US HWY 52 MORRISTOWN, TN 46161  
led out by Disposal Site) IDEM Facility ID #: \_\_\_\_\_  
Address: \_\_\_\_\_ Volume (Weight): 19.72  
Authorized Signature: [Signature] Date: 2-19-20



11584



Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



**Advanced Disposal**

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Waste Category: 024 Disposal Method: 3

Certification Date: 1/17/20

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: [Signature]

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer

Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_

Date: \_\_\_\_\_

Disposal Site Information: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

For Office Use Only  
Filled out by Disposal Site)

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_

Volume (Weight): 19.361

Authorized Signature: [Signature]

Date: 2-19-20



11584

23

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584

Waste Name: Contaminated Soil



**Advanced Disposal**

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste is Non-Hazardous	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Sample Information and/or SDSs	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Properly Signed by the Generator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
State Approval Required and Granted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Waste Category: OTC Disposal Method: \_\_\_\_\_

Certification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

**Landfill Verification**

Waste Determination: \_\_\_\_\_

Verification Number: 11584

Approval Signature: \_\_\_\_\_

Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Trucking Driver's Signature: [Signature]

Mailing Address: \_\_\_\_\_ Date: 2-19-20

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161

Filed out by (Use Only Disposal Site)

IDEM Facility ID #: 73-1

Address: \_\_\_\_\_ Volume (Weight): 21.77

Authorized Signature: [Signature] Date: 2-19-20



11584

121

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Certification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Trucking Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-19-20

Disposal Site Info: CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161  
led out by (Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 737  
Address: \_\_\_\_\_ Volume (Weight): 21.75  
Authorized Signature: [Signature] Date: 2-19-20



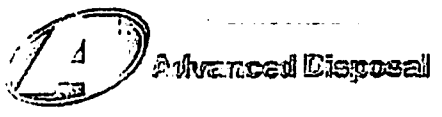
11584



122

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: 200A Disposal Method: LF

Recertification Date: 070

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: [Signature] Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Site Info CGS SERVICES, INC ed for (New Disposal Site)  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, IN 46161  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: \_\_\_\_\_ Volume (Weight): 19.72 T  
Authorized Signature: [Signature] Date: 5-19-20

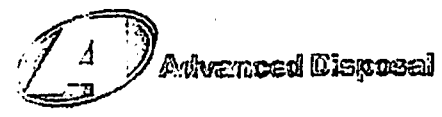


11584

123

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: \_\_\_\_\_

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: STEVE MEYER TRUCKING Driver's Signature: [Signature]  
Mailing Address: \_\_\_\_\_ Date: 2-19-20

Disposal Site Information (For Office Use Only) For Office Use Only  
Site Name: CGS SERVICES, INC. IDEM Facility ID #: 73-1  
Address: PO BOX 212 Volume (Weight): 20.73T  
2920 E US HWY 52 Date: 2.19.2020  
MORRISTOWN, TN 46161  
Authorized Signature: [Signature]



11584

124

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

**Certification Checklist**

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Category: OTM Disposal Method: L

Recertification Date: OTB

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: [Signature] Date: 1/17/2020

**Transporter Information (to be filled out by Transporter)**

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: Steve Meyer Trucking Driver's Signature: [Signature]  
Mailing Address: 2-14-20 Date: \_\_\_\_\_

Disposal Site Information (for Office Use Only)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: 73-1  
Address: CGS SERVICES, INC. PO BOX 212 2920 E US HWY 52 MORRISTOWN, IN 46161 Volume (Weight): 17.87T  
Authorized Signature: [Signature] Date: 2-19-2020



11584

125

Landfill Used for Disposal: CGS Services, Inc.

Generator Name: Reed Manufacturing Profile Number: 11584



Advanced Disposal

Waste Name: Contaminated Soil

Certification Checklist

Has completed profile been submitted including the following:

Yes No N/A

Generator Name and Address	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Waste Name and Process Generating the Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste is Non-Hazardous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acceptable Composition and Physical Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete Sample Information and/or SDSs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Properly Signed by the Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Approval Required and Granted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Inventory: \_\_\_\_\_ Disposal Method: \_\_\_\_\_

Recertification Date: 07/20

Frequency of Testing: \_\_\_\_\_ Parameters to be Tested: \_\_\_\_\_

Conditions of Approval:

[Empty box for conditions of approval]

Landfill Verification Waste Determination: \_\_\_\_\_ Verification Number: 11584  
Approval Signature: \_\_\_\_\_ Date: 1/17/2020

Transporter Information (to be filled out by Transporter)

By signing this waste notification sheet, I hereby affirm under penalties of perjury that the information on this waste notification sheet is true and accurate, that I am the driver of the Company designated below, and that I am familiar with the practices of my Company and with the origination of the load delivered today. I hereby acknowledge that documentation that supports the waste determination will be made available upon request to the landfill and IDEM.

Company Name: \_\_\_\_\_ Driver's Signature: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Date: 2-21-20

Disposal Site Info CGS SERVICES, INC  
PO BOX 212  
2920 E US HWY 52  
MORRISTOWN, TN 46161 led out by (use only Disposal Site)  
Site Name: \_\_\_\_\_ IDEM Facility ID #: B-1  
Address: \_\_\_\_\_ Volume (Weight): 17.425  
Authorized Signature: [Signature] Date: 2/21/20



11584

**Source Area Remediation Report  
Reed Manufacturing Services – Franklin, IN  
State Cleanup Site # 2013-42015**

**APPENDIX D**

**CONFIRMATION SAMPLE LABORATORY REPORTS**



**ENVision Laboratories, Inc.**  
1439 Sadlier Circle West Drive  
Indianapolis, IN 46239  
Tel: 317.351.8632  
Fax: 317.351.8639  
[www.envisionlaboratories.com](http://www.envisionlaboratories.com)

Mr. Chuck Goodwin  
Ramboll  
One Indiana Square  
Suite 2335  
Indianapolis, IN 46204

February 19, 2020

ENVision Project Number: 2020-356  
Client Project Name: Reed Manufacturing

Dear Mr. Goodwin,

Please find the attached analytical report for the samples received February 18, 2020. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1. All soils collected via Method 5035A are frozen at the laboratory upon receipt.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is written in a cursive, flowing style.

David Norris

Client Services Manager  
ENVision Laboratories, Inc.



Analytical Report

**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 021820VW

**Client Sample ID:** TRIP BLANK      **Sample Collection Date/Time:** 2/18/20  
**Envision Sample Number:** 20-2260      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	



Analytical Report

8260 continued...

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.4	1.4	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	101%		
1,2-Dichloroethane-d4 (surrogate)	98%		
Toluene-d8 (surrogate)	87%		
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	2-19-20/18:38		
Analyst Initials	tjg		





**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** DUP-01      **Sample Collection Date/Time:** 2/18/20  
**Envision Sample Number:** 20-2261      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.111	0.111	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.056	0.056	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.056	0.056	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.111	0.111	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	<b>0.103</b>	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	<b>0.0237</b>	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	105%		
1,2-Dichloroethane-d4 (surrogate)	98%		
Toluene-d8 (surrogate)	104%		
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	2-18-20/19:19		
Analyst Initials	gjd		

Percent Solids: 90%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** DUP-01      **Sample Collection Date/Time:** 2/18/20  
**Envision Sample Number:** 20-2261      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-1      **Sample Collection Date/Time:** 2/18/20 14:00  
**Envision Sample Number:** 20-2262      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.109	0.109	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.054	0.054	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.054	0.054	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.109	0.109	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	103%		
1,2-Dichloroethane-d4 (surrogate)	98%		
Toluene-d8 (surrogate)	108%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	2-18-20/19:36		
Analyst Initials	gjd		

Percent Solids: 92%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-1      **Sample Collection Date/Time:** 2/18/20      14:00  
**Envision Sample Number:** 20-2262      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	8.0%		EPA 1684
Percent Solids	92.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-2      **Sample Collection Date/Time:** 2/18/20 14:12  
**Envision Sample Number:** 20-2263      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.118	0.118	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.059	0.059	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.059	0.059	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.118	0.118	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	<b>0.00733</b>	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	109%		
1,2-Dichloroethane-d4 (surrogate)	99%		
Toluene-d8 (surrogate)	108%		
4-bromofluorobenzene (surrogate)	86%		
Analysis Date/Time:	2-18-20/20:26		
Analyst Initials	gjd		

Percent Solids: 85%

All results reported on dry weight basis.





**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-2      **Sample Collection Date/Time:** 2/18/20      14:12  
**Envision Sample Number:** 20-2263      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	2/18/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-3      **Sample Collection Date/Time:** 2/18/20 14:15  
**Envision Sample Number:** 20-2264      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.116	0.116	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.058	0.058	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.058	0.058	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.116	0.116	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	<b>0.0555</b>	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	<b>0.00810</b>	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	112%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	100%		
4-bromofluorobenzene (surrogate)	85%		
Analysis Date/Time:	2-18-20/20:43		
Analyst Initials	gjd		
Percent Solids:	86%		

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-3      **Sample Collection Date/Time:** 2/18/20      14:15  
**Envision Sample Number:** 20-2264      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-4      **Sample Collection Date/Time:** 2/18/20 14:17  
**Envision Sample Number:** 20-2265      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.106	0.106	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.053	0.053	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.053	0.053	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.106	0.106	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	107%		
1,2-Dichloroethane-d4 (surrogate)	102%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	86%		
Analysis Date/Time:	2-18-20/20:59		
Analyst Initials	gjd		

Percent Solids: 94%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-4      **Sample Collection Date/Time:** 2/18/20      14:17  
**Envision Sample Number:** 20-2265      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	6.0%		EPA 1684
Percent Solids	94.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-5      **Sample Collection Date/Time:** 2/18/20 14:20  
**Envision Sample Number:** 20-2266      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.106	0.106	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.053	0.053	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.053	0.053	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	





8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.106	0.106	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	<b>0.00574</b>	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	110%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	107%		
4-bromofluorobenzene (surrogate)	85%		
Analysis Date/Time:	2-18-20/21:16		
Analyst Initials	gjd		

Percent Solids: 94%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-5      **Sample Collection Date/Time:** 2/18/20      14:20  
**Envision Sample Number:** 20-2266      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	6.0%		EPA 1684
Percent Solids	94.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-6      **Sample Collection Date/Time:** 2/18/20 14:25  
**Envision Sample Number:** 20-2267      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.108	0.108	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.054	0.054	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.054	0.054	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.108	0.108	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	<b>0.0483</b>	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	<b>0.0140</b>	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	114%		
Toluene-d8 (surrogate)	103%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	2-18-20/21:32		
Analyst Initials	gjd		
Percent Solids:	93%		

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-6      **Sample Collection Date/Time:** 2/18/20      14:25  
**Envision Sample Number:** 20-2267      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	7.0%		EPA 1684
Percent Solids	93.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-7      **Sample Collection Date/Time:** 2/18/20 14:29  
**Envision Sample Number:** 20-2268      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.114	0.114	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.057	0.057	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.057	0.057	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00032	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.114	0.114	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	101%		
1,2-Dichloroethane-d4 (surrogate)	109%		
Toluene-d8 (surrogate)	105%		
4-bromofluorobenzene (surrogate)	86%		
Analysis Date/Time:	2-18-20/21:49		
Analyst Initials	gjd		

Percent Solids: 88%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-7      **Sample Collection Date/Time:** 2/18/20      14:29  
**Envision Sample Number:** 20-2268      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		





**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-8      **Sample Collection Date/Time:** 2/18/20 14:35  
**Envision Sample Number:** 20-2269      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.106	0.106	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.053	0.053	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.053	0.053	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.106	0.106	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	116%		
1,2-Dichloroethane-d4 (surrogate)	110%		
Toluene-d8 (surrogate)	110%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	2-18-20/22:06		
Analyst Initials	gjd		

Percent Solids: 94%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-8      **Sample Collection Date/Time:** 2/18/20      14:35  
**Envision Sample Number:** 20-2269      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	6.0%		EPA 1684
Percent Solids	94.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** SW-9      **Sample Collection Date/Time:** 2/18/20 14:37  
**Envision Sample Number:** 20-2270      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.110	0.110	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.055	0.055	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.055	0.055	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.110	0.110	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	<b>0.00811</b>	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	116%		
1,2-Dichloroethane-d4 (surrogate)	117%		
Toluene-d8 (surrogate)	104%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	2-18-20/22:23		
Analyst Initials	gjd		

Percent Solids: 91%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** SW-9      **Sample Collection Date/Time:** 2/18/20      14:37  
**Envision Sample Number:** 20-2270      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	9.0%		EPA 1684
Percent Solids	91.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** B-1      **Sample Collection Date/Time:** 2/18/20 14:39  
**Envision Sample Number:** 20-2271      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.119	0.119	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.060	0.060	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.060	0.060	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.119	0.119	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	<b>0.0727</b>	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	<b>0.0134</b>	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	111%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	2-18-20/22:40		
Analyst Initials	gjd		
Percent Solids:	84%		

All results reported on dry weight basis.





**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** B-1      **Sample Collection Date/Time:** 2/18/20      14:39  
**Envision Sample Number:** 20-2271      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** B-2                      **Sample Collection Date/Time:** 2/18/20      14:41  
**Envision Sample Number:** 20-2272      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.119	0.119	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.060	0.060	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.060	0.060	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.119	0.119	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	<b>0.160</b>	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	<b>0.0398</b>	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	106%		
1,2-Dichloroethane-d4 (surrogate)	102%		
Toluene-d8 (surrogate)	104%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	2-18-20/22:56		
Analyst Initials	gjd		
Percent Solids:	84%		

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** B-2      **Sample Collection Date/Time:** 2/18/20      14:41  
**Envision Sample Number:** 20-2272      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021820VS

**Client Sample ID:** B-3      **Sample Collection Date/Time:** 2/18/20 14:43  
**Envision Sample Number:** 20-2273      **Sample Received Date/Time:** 2/18/20 15:48  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.103	0.103	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.052	0.052	
2-Butanone (MEK)	< 0.010	0.010	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.052	0.052	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00029	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.103	0.103	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.010	0.010	
2-Hexanone	< 0.010	0.010	
Iodomethane	< 0.010	0.010	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.010	0.010	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	<b>0.0626</b>	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	<b>0.0131</b>	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.010	0.010	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.010	0.010	
Dibromofluoromethane (surrogate)	102%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	2-18-20/23:13		
Analyst Initials	gjd		
Percent Solids:	97%		

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-356

**Client Sample ID:** B-3      **Sample Collection Date/Time:** 2/18/20      14:43  
**Envision Sample Number:** 20-2273      **Sample Received Date/Time:** 2/18/20      15:48  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	3.0%		EPA 1684
Percent Solids	97.0%		EPA 1684
Analysis Date:	2/19/20		
Analyst Initials	jc		



**EPA 8260 Quality Control Data**

ENVision Batch Number: 021820VS

<b><u>Method Blank (MB):</u></b>	<b><u>MB Results (ug/kg)</u></b>	<b><u>Rep Lim (ug/kg)</u></b>	<b><u>Flag</u></b>
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	





**8260 QC Continued...**

<u>Method Blank (MB)</u>	<u>MB Results (ug/kg)</u>	<u>Rep Lim (ug/kg)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	105%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	2-18-20/15:26		
Analyst Initials	gjd		



8260 QC Continued...

<u>LCS/LCSD:</u>	<u>LCS Results (ug/kg)</u>	<u>LCS/LCSD Conc. (ug/kg)</u>	<u>LCSD Result (ug/kg)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	55.2	50	50.4	110%	101%	9.1	
1,1-Dichloroethene	52.4	50	47.6	105%	95%	9.6	
trans-1,2-Dichloroethene	58.4	50	52.4	117%	105%	10.8	
Methyl-tert-butyl ether	49.0	50	46.5	98%	93%	5.2	
1,1-Dichloroethane	56.1	50	51.2	112%	102%	9.1	
cis-1,2-Dichloroethene	47.7	50	56.7	95%	113%	17.2	
Chloroform	58.7	50	54.6	117%	109%	7.2	
1,1,1-Trichloroethane	57.6	50	53.1	115%	106%	8.1	
Benzene	55.4	50	55.5	111%	111%	0.2	
Trichloroethene	53.4	50	57.4	107%	115%	7.2	
Toluene	52.5	50	53.4	105%	107%	1.7	
1,1,1,2-Tetrachloroethane	52.6	50	50.9	105%	102%	3.3	
Chlorobenzene	56.2	50	52.5	112%	105%	6.8	
Ethylbenzene	55.9	50	52.9	112%	106%	5.5	
o-Xylene	55.5	50	54.7	111%	109%	1.5	
n-Propylbenzene	53.1	50	50.8	106%	102%	4.4	
Dibromofluoromethane (surrogate)	99%		110%				
1,2-Dichloroethane-d4 (surrogate)	100%		105%				
Toluene-d8 (surrogate)	102%		95%				
4-bromofluorobenzene (surrogate)	106%		109%				
Analysis Date/Time:	2-18-20/14:52		2-18-20/15:09				
Analyst Initials	gjd		gjd				

<u>Matrix Spike/Matrix Spike Dup:</u>	<u>Sample Res (ug/kg)</u>	<u>MS Res (ug/kg)</u>	<u>MSD Res (ug/kg)</u>	<u>Spk Conc (ug/kg)</u>	<u>MS Rec</u>	<u>Rec</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	0	47.8	47.8	50	96%	96%	0.0	
1,1-Dichloroethene	0	44.2	43.3	50	88%	87%	2.1	
trans-1,2-Dichloroethene	0	43.5	44	50	87%	88%	1.1	
Methyl-tert-butyl ether	0	50.1	48.9	50	100%	98%	2.4	
1,1-Dichloroethane	0	43.1	44	50	86%	88%	2.1	
cis-1,2-Dichloroethene	0	47.1	49.1	50	94%	98%	4.2	
Chloroform	0	46.1	46.1	50	92%	92%	0.0	
1,1,1-Trichloroethane	0	42.4	44.6	50	85%	89%	5.1	
Benzene	0	52.2	53.7	50	104%	107%	2.8	
Trichloroethene	0	47.1	49.1	50	94%	98%	4.2	
Toluene	0	51.4	52.8	50	103%	106%	2.7	
1,1,1,2-Tetrachloroethane	0	47.4	48.9	50	95%	98%	3.1	
Chlorobenzene	0	49.1	49.5	50	98%	99%	0.8	
Ethylbenzene	0	48.4	49.4	50	97%	99%	2.0	
o-Xylene	0	50.3	50.8	50	101%	102%	1.0	
n-Propylbenzene	0	45.3	45.9	50	91%	92%	1.3	
Dibromofluoromethane (surrogate)	103%	101%	93%					
1,2-Dichloroethane-d4 (surrogate)	98%	108%	110%					
Toluene-d8 (surrogate)	108%	101%	106%					
4-bromofluorobenzene (surrogate)	87%	112%	93%					
Analysis Date/Time:	2-18-20/19:36	2-18-20/19:53	2-18-20/20:09					
Analyst Initials	gjd	gjd	gjd					
Original Sample Number Spiked:	20-2262							



**EPA 8260 Quality Control Data**

**ENVision Batch Number:** 021820VW

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



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8260 QC Continued...

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.4	1.4	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	105%		
1,2-Dichloroethane-d4 (surrogate)	106%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	2-18-20/18:20		
Analyst Initials	tjg		



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8260 QC Continued...

<u>LCS/LCSD</u>	<u>LCS Results (ug/L)</u>	<u>LCS/LCSD Conc. (ug/L)</u>	<u>LCSD Result (ug/L)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	49.1	50	39.0	98%	78%	22.9	2
1,1-Dichloroethene	47.7	50	46.9	95%	94%	1.7	
trans-1,2-Dichloroethene	50.0	50	46.9	100%	94%	6.4	
Methyl-tert-butyl-ether	56.1	50	51.2	112%	102%	9.1	
1,1-Dichloroethane	47.3	50	44.7	95%	89%	5.7	
cis-1,2-Dichloroethene	49.4	50	44.6	99%	89%	10.2	
Chloroform	47.9	50	43.3	96%	87%	10.1	
1,1,1-Trichloroethane	46.3	50	47.4	93%	95%	2.3	
Benzene	50.0	50	49.3	100%	99%	1.4	
Trichloroethene	50.2	50	47.6	100%	95%	5.3	
Toluene	50.7	50	50.1	101%	100%	1.2	
1,1,1,2-Tetrachloroethane	46.7	50	45.3	93%	91%	3.0	
Chlorobenzene	51.0	50	48.5	102%	97%	5.0	
Ethylbenzene	50.3	50	48.7	101%	97%	3.2	
o-Xylene	47.0	50	44.6	94%	89%	5.2	
n-Propylbenzene	49.8	50	47.8	100%	96%	4.1	
Dibromofluoromethane (surrogate)	101%		94%				
1,2-Dichloroethane-d4 (surrogate)	108%		98%				
Toluene-d8 (surrogate)	107%		105%				
4-bromofluorobenzene (surrogate)	106%		107%				
Analysis Date/Time:	2-18-20/17:28		2-18-20/17:45				
Analyst Initials	tjg		tjg				



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**Flag Number**

**Comments**

- |   |  |
|---|--|
| 1 | Reported value is below the reporting limit but above the MDL. |
| 2 | RPD is biased high but recoveries are within control.          |



# CHAIN OF CUSTODY RECORD

ENVISSION Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

ENVISSION Proj#: 2020-056 Page 1 of 2

Client: Ramboll

Invoice Address:

REQUESTED PARAMETERS

Sample Integrity:

Report On: Indiana Sp. 61335

Project Name:

Address: Indianapolis, IN 46204

Lab Contact: David James

Report To: Michael Goodwin

Sampled by: A. Dreyes

Phone: 303-382-8473

Fax: Goodwin@Ramboll.com

P.O. Number:

Desired TAT: (Please Circle One) 24 hr

QA/QC Required: (circle if applicable) Level III

VOC 8260  
MS 11160

Please indicate number of containers per preservative below

Cooler Temp: 2 °C  
(Circle)  
Samples on Ice?  Yes  No  
Samples Intact?  Yes  No  
Custody Seal:  Yes  No  
ENVISSION provided bottles:  Yes  No  
VOC vials free of head-space:  Yes  No  
PH checked?  Yes  No  
Method 5035 collection used?  Yes  No  
5035 samples received within 48 hr of Collection?  Yes  No

Sample ID	Coll. Date	Coll. Time	Comp (G) Grab (G)	Matrix	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Other	None	ENVISSION Sample ID
Trip Blank	4/18/2020	-	51	SL							20-2260
DUP-01		-									2261
SW-1		1400									2262
SW-2		1412									2263
SW-3		1415									2264
SW-4		1417									2265
SW-5		1420									2266
SW-6		1425									2267
SW-7		1429									2268
SW-8		1435									2269
SW-9	4/19/2020	1437	51	SL							2270

Comments: Continuation of 4oz for Tenacres Dup-01 - One tenacres bottle broke / only has 2 + 4oz for

Relinquished by:	Date	Time	Received by:	Date	Time
<u>David James</u>	<u>2/18/2020</u>	<u>1548</u>	<u>David James</u>	<u>2/18/20</u>	<u>1548</u>





## 5035 CHECK-IN SHEET

Client Name: RAMBOLL

ENVision project#: 2020-356

Cooler Temp: 2 °C

Method 5035A used: YES X NO

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES X NO

5035A samples were received within 48 hrs of collection: YES X NO

5035A samples were frozen within 48 hrs of collection by lab: YES X NO

If NO, did client freeze samples? YES  NO

5035A Table A.1 Reference:  
Sample is extruded into an empty sealed vial and cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$  for no more than 48 hours then frozen to  $< -7^{\circ}\text{C}$  upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES X NO

5035A Table A.1 Reference:  
Sample is extruded into an empty sealed vial and cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$  for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: LISA LAWSON 02-18-20



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8260 VOC  
Package Review

ENVision Project#: 2020-356

- Sequence Log
- 8260 Soil / Water Limits

021020 RC VOA #1 ✓

Initial Calibration Data

Calibration Curve: 011820 RC VOC 1 ✓

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Raw Sample Data (if applicable – Level IV)

*The contents of this Level QA/QC package have been reviewed for completeness and compliance with method requirements.*

QA Manager Signature of approval:

*Cheryl Crum*



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## 8260 VOC

- Sequence Log
- 8260 Soil / Water Limits

# Injection Log

Directory: C:\HPCHEM\1\DATA\021820

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	BFB TUNE	QC	18 Feb 2020 16:53
2	2	0201002.D	1.	CCV 50PPB	QC	18 Feb 2020 17:10
3	3	0301003.D	1.	LCS 50PPB	QC	18 Feb 2020 17:28
4	4	0401004.D	1.	LCSD 50PPB	QC	18 Feb 2020 17:45
5	5	0501005.D	1.	LCSDD 50PPB	QC	18 Feb 2020 18:03
6	6	0601006.D	1.	MB	QC	18 Feb 2020 18:20
7	7	0701007.D	1.	20-2260 TB ✓	A	18 Feb 2020 18:38
8	8	0801008.D	1.	20-2131 TB	A	18 Feb 2020 18:55
9	9	0901009.D	1.	20-2229 TB	A	18 Feb 2020 19:13
10	10	1001010.D	1.	20-2252 R	A	18 Feb 2020 19:30
11	11	1101011.D	1.	20-2252:20 R	A	18 Feb 2020 19:48
12	12	1201012.D	1.	20-2128	A	18 Feb 2020 20:05
13	13	1301013.D	1.	20-2129	A	18 Feb 2020 20:23
14	14	1401014.D	1.	20-2130	A	18 Feb 2020 20:41
15	15	1501015.D	1.	20-2226	A	18 Feb 2020 20:58
16	16	1601016.D	1.	20-2227:10	A	18 Feb 2020 21:16
17	17	1701017.D	1.	20-2227:100	A	18 Feb 2020 21:33
18	18	1801018.D	1.	20-2228:10	A	18 Feb 2020 21:51
19	19	1901019.D	1.	20-2228:100	A	18 Feb 2020 22:08
20	20	2001020.D	1.	20-2241	A	18 Feb 2020 22:26
21	21	2101021.D	1.	20-2242	A	18 Feb 2020 22:43
22	22	2201022.D	1.	20-2244	A	18 Feb 2020 23:00
23	23	2301023.D	1.	20-2246	A	18 Feb 2020 23:18
24	24	2401024.D	1.	20-2248	A	18 Feb 2020 23:35
25	25	2501025.D	1.	20-2249	A	18 Feb 2020 23:53
26	26	2601026.D	1.	20-2251	A	19 Feb 2020 00:10
27	27	2701027.D	1.	20-2127	A	19 Feb 2020 00:28
28	28	2801028.D	1.	20-2225	A	19 Feb 2020 00:45
29	29	2901029.D	1.	20-2127MS	B	19 Feb 2020 01:02
30	30	3001030.D	1.	20-2127MSD	C	19 Feb 2020 01:20
31	31	3101031.D	1.	20-2225MS	B	19 Feb 2020 01:37
32	32	3201032.D	1.	20-2225MSD	C	19 Feb 2020 01:55

# Injection Log

Directory: C:\HPCHEM\1\DATA\021820

VOC  
Soils  
"RCG"

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	18 Feb 2020 14:19
2	2	0201002.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	18 Feb 2020 14:36
3	3	0301003.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	18 Feb 2020 14:52
4	4	0401004.D	1.	LCS 50ppb	092319 VOC1 curve, 8260 ical	18 Feb 2020 15:09
5	5	0501005.D	1.	MB	092319 VOC1 curve, 8260 ical	18 Feb 2020 15:26
6	6	0601006.D	1.	tlcp2094:20	092319 VOC1 curve, 8260 ical	18 Feb 2020 15:42
7	7	0701007.D	1.	2139	092319 VOC1 curve, 8260 ical	18 Feb 2020 15:59
8	8	0801008.D	1.	2140	092319 VOC1 curve, 8260 ical	18 Feb 2020 16:16
9	9	0901009.D	1.	2141	092319 VOC1 curve, 8260 ical	18 Feb 2020 16:33
10	10	1001010.D	1.	2142	092319 VOC1 curve, 8260 ical	18 Feb 2020 16:49
11	11	1101011.D	1.	2143	092319 VOC1 curve, 8260 ical	18 Feb 2020 17:06
12	12	1201012.D	1.	2144	092319 VOC1 curve, 8260 ical	18 Feb 2020 17:22
13	13	1301013.D	1.	2145	092319 VOC1 curve, 8260 ical	18 Feb 2020 17:39
14	14	1401014.D	1.	2146	092319 VOC1 curve, 8260 ical	18 Feb 2020 17:56
15	15	1501015.D	1.	2147	092319 VOC1 curve, 8260 ical	18 Feb 2020 18:12
16	16	1601016.D	1.	2148	092319 VOC1 curve, 8260 ical	18 Feb 2020 18:29
17	17	1701017.D	1.	2149	092319 VOC1 curve, 8260 ical	18 Feb 2020 18:46
18	18	1801018.D	1.	2150	092319 VOC1 curve, 8260 ical	18 Feb 2020 19:03
19	19	1901019.D	1.	2261 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 19:19
20	20	2001020.D	1.	2262 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 19:36
21	21	2101021.D	1.	2262msv ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 19:53
22	22	2201022.D	1.	2262msd ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 20:09
23	23	2301023.D	1.	2263 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 20:26
24	24	2401024.D	1.	2264 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 20:43
25	25	2501025.D	1.	2265 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 20:59
26	26	2601026.D	1.	2266 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 21:16
27	27	2701027.D	1.	2267 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 21:32
28	28	2801028.D	1.	2268 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 21:49
29	29	2901029.D	1.	2269 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 22:06

# Injection Log

Directory: C:\HPCHEM\1\DATA\021820

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
30	30	3001030.D	1.	2270 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 22:23
31	31	3101031.D	1.	2271 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 22:40
32	32	3201032.D	1.	2272 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 22:56
33	33	3301033.D	1.	2273 ✓	092319 VOC1 curve, 8260 ical	18 Feb 2020 23:13
34	34	3401034.D	1.	2259	092319 VOC1 curve, 8260 ical	18 Feb 2020 23:30



ENVision Laboratories, Inc.  
 1439 Sadlier Circle West Drive  
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8260 Volatiles Statistical Control Limits - Effective 11/2016

Surrogate	Water Limits % Rec	Soil Limits % Rec
Dibromofluoromethane (surrogate)	73-125	72-128
1,2-Dichloroethane-d4 (surrogate)	74-124	71-129
Toluene-d8 (surrogate)	73-126	70-128
4-bromofluorobenzene (surrogate)	75-125	74-127

LCS	Water Limits % Rec	Soil Limits % Rec
Vinyl Chloride	79-127	76-132
1,1-Dichloroethene	79-122	75-123
trans-1,2-Dichloroethene	79-125	72-123
Methyl-tert-butyl-ether	71-122	75-128
1,1-Dichloroethane	78-120	72-122
cis-1,2-Dichloroethene	78-121	76-122
Chloroform	77-120	79-125
1,1,1-Trichloroethane	72-122	75-129
Benzene	78-127	72-126
Trichloroethene	79-120	72-122
Toluene	79-122	73-120
1,1,1,2-Tetrachloroethane	76-121	72-121
Chlorobenzene	79-125	73-127
Ethylbenzene	79-122	74-125
o-Xylene	78-122	79-129
N-propylbenzene	78-125	76-128

MS/MSD	Water Limits % Rec	Soil Limits % Rec
Vinyl Chloride	78-12	72-136
1,1-Dichloroethene	79-123	73-127
trans-1,2-Dichloroethene	79-125	62-129
Methyl-tert-butyl-ether	71-122	64-124
1,1-Dichloroethane	77-124	71-123
cis-1,2-Dichloroethene	79-122	78-127
Chloroform	79-121	69-122
1,1,1-Trichloroethane	70-122	69-122
Benzene	78-130	78-127
Trichloroethene	78-124	79-122
Toluene	78-126	65-147
1,1,1,2-Tetrachloroethane	79-120	71-121
Chlorobenzene	79-123	75-113
Ethylbenzene	78-120	72-114
o-Xylene	77-122	75-126
N-propylbenzene	77-120	74-122



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## 8260 VOC Initial Calibration Data

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary



# Injection Log

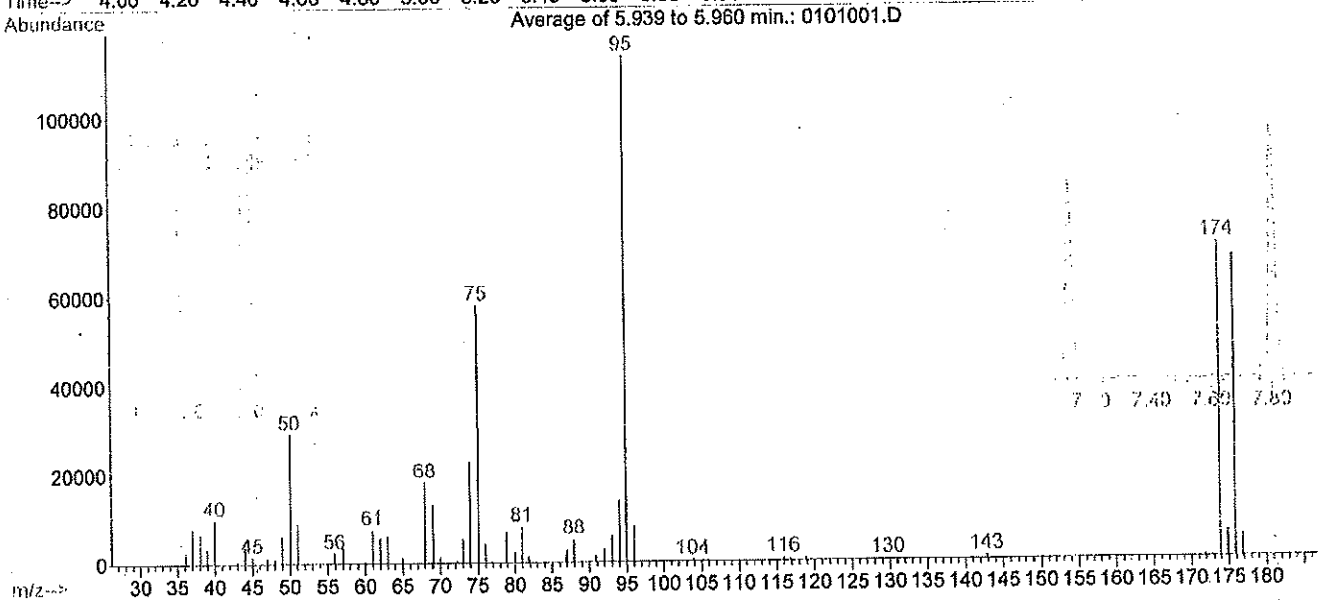
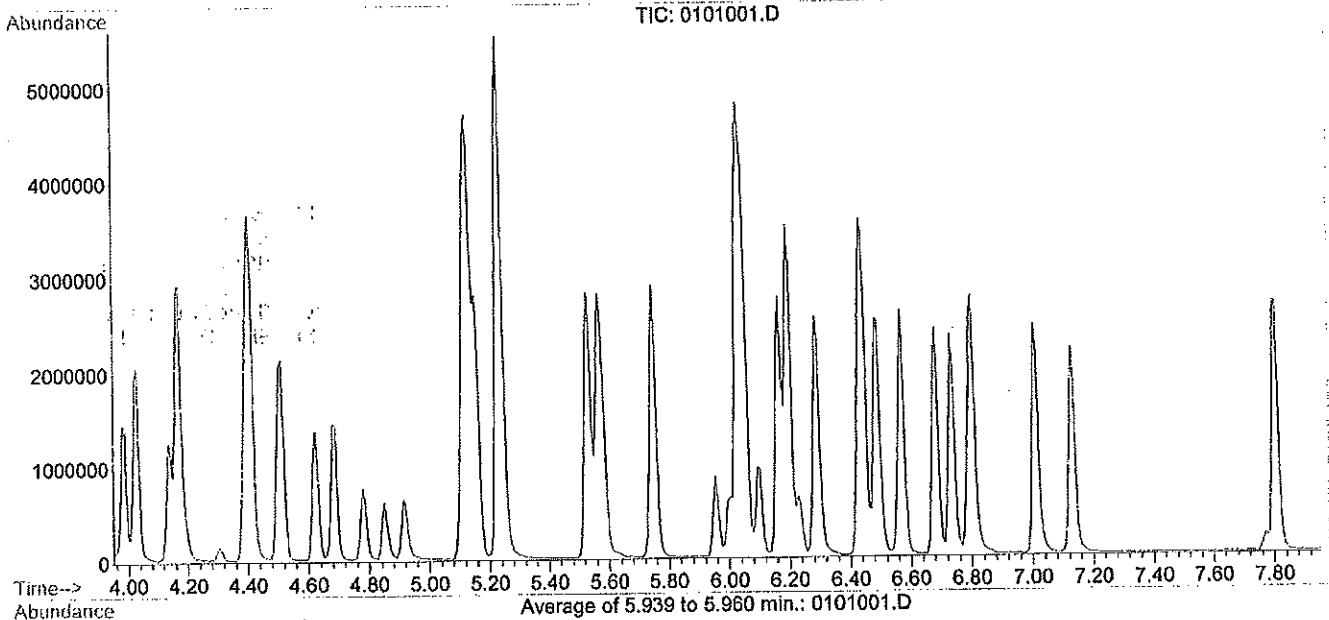
Directory: C:\HPCHEM\1\DATA\021020

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	50PPB 8260 ICAL/BFB TUNE	A	10 Feb 2020 15:21
2	2	0201002.D	1.	1PPB 8260 ICAL	A	10 Feb 2020 15:39
3	3	0301003.D	1.	5PPB 8260 ICAL	A	10 Feb 2020 15:56
4	4	0401004.D	1.	10PPB 8260 ICAL	A	10 Feb 2020 16:13
5	5	0501005.D	1.	20PPB 8260 ICAL	A	10 Feb 2020 16:30
6	6	0601006.D	1.	100PPB 8260 ICAL	A	10 Feb 2020 16:48
7	7	0701007.D	1.	B	A	10 Feb 2020 17:05
8	8	0801008.D	1.	200PPB 8260 ICAL	A	10 Feb 2020 17:22
9	9	0901009.D	1.	B	A	10 Feb 2020 17:39
10	10	1001010.D	1.	50PPB 8260 ICV/LCS	A	10 Feb 2020 17:56
11	11	1101011.D	1.	50PPB 8260 LCSD	A	10 Feb 2020 18:13
12	12	1201012.D	1.	MB	A	10 Feb 2020 18:30
13	13	1301013.D	1.	MB	A	10 Feb 2020 18:47
14	14	1401014.D	1.	20-1836 TB	A	10 Feb 2020 19:05
15	15	1501015.D	1.	20-1832	A	10 Feb 2020 19:22
16	16	1601016.D	1.	20-1833	A	10 Feb 2020 19:39
17	17	1701017.D	1.	20-1834	A	10 Feb 2020 19:56
18	18	1801018.D	1.	20-1834:20	A	10 Feb 2020 20:13
19	19	1901019.D	1.	20-1835	A	10 Feb 2020 20:30
20	20	2001020.D	1.	20-1837	A	10 Feb 2020 20:47
21	21	2101021.D	1.	20-1838	A	10 Feb 2020 21:05
22	22	2201022.D	1.	20-1839	A	10 Feb 2020 21:22
23	23	2301023.D	1.	20-1840	A	10 Feb 2020 21:39
24	24	2401024.D	1.	20-1847	A	10 Feb 2020 21:56
25	25	2501025.D	1.	20-1848	A	10 Feb 2020 22:13
26	26	2601026.D	1.	20-1849	A	10 Feb 2020 22:30
27	27	2701027.D	1.	20-1868	A	10 Feb 2020 22:47
28	28	2801028.D	1.	20-1850	A	10 Feb 2020 23:04
29	29	2901029.D	1.	20-1849	A	10 Feb 2020 23:21
30	30	3001001.D	1.	20-1875 TB RUSH	A	10 Feb 2020 23:42
31		3001030.D	1.		A	10 Feb 2020 11:02
32	31	3101001.D	1.	20-1811 CONFIRMATION CLEAN	A	10 Feb 2020 10:07

BFB

Data File : C:\HPCHEM\1\DATA\021020\0101001.D  
Acq On : 10 Feb 2020 3:21 pm  
Sample : 50PPB 8260 ICAL/BFB TUNE  
Misc : A  
MS Integration Params: EVENTS.E  
Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :

Vial: 1  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00



Spectrum Information: Average of 5.939 to 5.960 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.7	29181	PASS
75	95	30	60	51.1	58042	PASS
95	95	100	100	100.0	113604	PASS
96	95	5	9	7.3	8265	PASS
173	174	0.00	2	0.5	345	PASS
174	95	50	100	62.2	70639	PASS
175	174	5	9	8.6	6069	PASS
176	174	95	101	95.8	67705	PASS
177	176	5	9	7.7	5209	PASS

Response Factor Report VOA #1

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration

Calibration Files  
 5 =0301003.D 100 =0601006.D 20 =0501005.D  
 10 =0401004.D 200 =0801008.D 1 =0201002.D

Compound	5	100	20	10	200	1	Avg	%RSD
-----ISTD-----								
1) Fluorobenzene (IS)								
2) Dichlorodifluoromet	1.533	1.937	1.770	1.954	1.833		1.836	9.26
3) Chloromethane	1.607	1.738	1.646	1.895	1.619		1.722	6.89
4) Vinyl Chloride (CCC	1.460	1.525	1.318	1.466	1.394	1.656	1.483	7.44
5) Bromomethane	0.867	0.972	0.950	0.996	0.968		0.960	5.25
6) Chloroethane	0.418	0.533	0.510	0.493	0.498		0.499	8.89
7) Acrolein	0.519	0.481	0.472	0.545	0.463		0.491	6.85
8) Trichlorofluorometh	1.275	1.326	1.288	1.229	1.178		1.272	4.72
9) Acetone	0.083	0.100	0.090	0.084	0.093		0.091	7.70
10) 1,1-Dichloroethene	1.255	1.204	1.091	1.377	1.054		1.201	9.73
11) Acrylonitrile	0.903	1.134	1.011	1.102	1.002		1.046	8.62
12) Iodomethane	1.065	1.241	1.080	1.150	1.132		1.148	6.28
13) Methylene Chloride	1.212	1.176	1.091	1.271	1.064		1.165	6.58
14) Carbon Disulfide	2.684	2.594	2.318	2.908	2.293		2.570	9.05
15) trans-1,2-Dichloroe	0.633	0.671	0.613	0.735	0.626		0.657	6.78
16) Methyl-tert-butyl e	0.685	0.820	0.692	0.708	0.749		0.731	6.82
17) 1,1-Dichloroethane	1.318	1.282	1.299	1.358	1.172		1.298	5.32
18) Vinyl Acetate	1.074	1.252	1.012	1.271	1.157		1.155	8.68
19) n-Hexane	0.744	0.766	0.710	0.797	0.683		0.743	5.51
20) n-Butanol	0.241	0.289	0.265	0.264	0.256		0.263	5.92
21) 2-Butanone (MEK)	0.178	0.187	0.163	0.175	0.176		0.175	4.75
22) cis-1,2-Dichloroeth	0.990	0.964	0.921	1.052	0.843		0.957	7.34
23) Bromochloromethane	0.273	0.316	0.293	0.289	0.287		0.295	5.64
24) Chloroform	1.442	1.372	1.274	1.457	1.213		1.358	7.09
25) 2,2-Dichloropropane	0.949	1.003	0.903	0.972	0.903		0.956	4.79
26) S Dibromofluoromethan	0.344	0.374	0.335	0.387	0.331		0.355	6.34
27) S 1,2-Dichloroethane-	0.420	0.479	0.425	0.449	0.446		0.443	4.73
28) 1,2-Dichloroethane	1.142	1.246	1.134	1.167	1.136		1.173	3.95
29) 1,1,1-Trichloroetha	1.101	1.089	1.014	1.126	0.979		1.063	5.26
30) 1,1-Dichloropropene	1.000	1.056	0.912	1.060	1.000		1.009	5.37
31) Carbon Tetrachlorid	1.055	1.051	0.945	1.092	0.946		1.026	6.21
32) Benzene	2.297	2.835	2.420	2.588	2.764		2.590	7.86
33) Dibromomethane	0.488	0.550	0.480	0.529	0.532		0.515	5.29
34) 1,2-Dichloropropane	0.703	0.822	0.705	0.761	0.796		0.766	6.87
35) Trichloroethane	0.714	0.804	0.702	0.797	0.738		0.758	6.01
36) Bromodichloromethan	1.174	1.278	1.124	1.181	1.223		1.205	4.67
37) 2-Chloroethyl-vinyl	0.170	0.221	0.177	0.180	0.219		0.190	12.55
38) cis-1,3-Dichloropro	1.037	1.253	1.038	1.062	1.239		1.126	8.78
39) 4-Methyl-2-Pentanone	0.407	0.493	0.541	0.472	0.465		0.467	10.41
40) trans-1,3-Dichlorop	0.963	1.071	1.065	1.150	1.029		1.049	6.02
41) 1,1,2-Trichloroetha	0.441	0.534	0.442	0.489	0.495		0.481	7.35
42) S Toluene-d8 (SURR)	0.808	0.994	0.808	0.795	0.869		0.872	9.80
43) Toluene	2.267	2.723	2.258	2.505	2.645		2.485	7.70
44) Ethyl Methacrylate	0.576	0.622	0.501	0.562	0.626		0.572	8.25
45) 1,3-Dichloropropane	0.818	0.984	0.809	0.793	0.922		0.866	8.64
46) 2-Hexanone	0.283	0.331	0.322	0.295	0.316		0.302	8.20
-----ISTD-----								
47) Chlorobenzene-d5 (IS)								
48) Dibromochloromethan	1.158	1.145	1.089	1.100	1.117		1.122	2.34
49) 1,2-Dibromoethane (	0.894	0.862	0.886	0.833	0.865		0.867	2.45
50) Tetrachloroethene (	0.975	0.846	0.865	0.857	0.804		0.866	6.63
51) 1,1,1,2-Tetrachloro	1.096	0.923	0.937	0.952	0.921	1.071	0.980	7.39
52) Chlorobenzene	2.745	2.509	2.650	2.577	2.533		2.598	3.33
53) Ethylbenzene	4.690	4.150	4.137	4.111	4.179		4.261	5.17
54) m,p-Xylene	3.398	3.140	3.395	3.446	2.860		3.268	6.94
55) o-Xylene	2.944	3.327	3.377	3.712	3.369		3.311	7.80
56) Bromoform	0.508	0.530	0.519	0.534	0.521		0.520	1.99
57) Styrene	2.138	2.468	2.365	2.153	2.549		2.357	7.39
58) 1,1,2,2-Tetrachloro	0.950	0.915	0.906	0.875	0.864	1.122	0.928	9.85
59) trans-1,4-Dichloro-	0.277	0.251	0.254	0.223	0.237		0.249	7.35
60) 1,2,3-Trichloroprop	0.688	0.734	0.820	0.765	0.704		0.748	6.57
61) Isopropylbenzene	2.822	3.486	3.295	3.044	3.665		3.311	9.78
62) S 4-Bromofluorobenzen	0.560	0.545	0.509	0.436	0.482		0.510	8.93
63) Bromobenzene	1.038	0.952	1.005	0.941	0.947		0.976	3.92
64) n-Propylbenzene	4.894	4.723	4.769	4.749	4.508		4.736	2.67
65) 2-Chlorotoluene	3.296	3.196	3.247	3.018	3.216		3.212	3.22

66)	4-Chlorotoluene	0.878	0.868	0.847	0.743	0.930	0.868	8.22	
67)	1,4-Dichlorobenzene-d	-----ISTD-----							
68)	1,3,5-Trimethylbenz	3.865	3.227	3.871	3.907	3.281	3.597	8.86	
69)	tert-Butylbenzene	3.567	3.122	3.538	3.546	3.180	3.373	5.97	
70)	1,2,4-Trimethylbenz	3.612	3.073	3.506	3.855	3.279	3.431	8.22	
71)	sec-Butylbenzene	4.549	3.997	4.653	4.757	4.075	4.356	7.67	
72)	1,3-Dichlorobenzene	1.987	1.868	2.145	2.280	1.877	1.996	9.11	
73)	1,4-Dichlorobenzene	1.395	1.190	1.466	1.392	1.316	1.327	8.39	
74)	p-Isopropyltoluene	2.704	2.913	3.290	3.091	2.917	2.986	6.58	
75)	1,2-Dichlorobenzene	2.071	1.705	1.929	2.037	1.767	1.874	8.56	
76)	n-Butylbenzene	2.711	3.214	3.494	3.363	3.320	3.234	8.41	
77)	1,2-Dibromo-3-chlor	0.058	0.067	0.066	0.066	0.054	0.064	9.70	
78)	1,2,4-Trichlorobenz	0.669	0.738	0.789	0.659	0.724	0.718	6.65	
79)	Naphthalene	1.012	1.064	1.134	0.956	1.039	0.935	1.022	
80)	Hexachloro-1,3-buta	0.276	0.299	0.339	0.330	0.289	0.305	8.10	
81)	1,2,3-Trichlorobenz	0.569	0.572	0.599	0.578	0.570	0.571	3.34	
82)	1-Methylnaphthalene	0.122	0.141	0.138	0.121	0.139	0.136	9.70	
83)	2-Methylnaphthalene	0.108	0.131	0.117	0.105	0.116	0.117	8.24	

(#) = Out of Range ### Number of calibration levels exceeded format ###

021020RG.M Mon Feb 17 16:16:22 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0201002.D  
 Acq On : 10 Feb 2020 3:39 pm  
 Sample : 1PPB 8260 ICAL  
 Misc : A

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:52 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title :  
 Last Update : Tue Feb 11 08:51:45 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6362114	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4022790	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.80	150	2399545	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
26) Dibromofluoromethane (SURR)	2.88	113	2513836	52.88	ug/L	0.00
Spiked Amount	50.000	Range	74 - 132	Recovery	=	105.76%
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2929190	49.48	ug/L	0.00
Spiked Amount	50.000	Range	77 - 134	Recovery	=	98.96%
42) Toluene-d8 (SURR)	4.14	98	5500480	46.59	ug/L	0.00
Spiked Amount	50.000	Range	67 - 130	Recovery	=	93.18%
62) 4-Bromofluorobenzene (SURR)	5.96	95	1847955	43.72	ug/L	0.00
Spiked Amount	50.000	Range	65 - 133	Recovery	=	87.44%
<b>Target Compounds</b>						
2) Dichlorodifluoromethane	1.03	85	204453	0.80	ug/L	98
3) Chloromethane	1.16	50	269493	1.13	ug/L #	89
4) Vinyl Chloride (CCC)	1.20	62	245671	1.33	ug/L	97
5) Bromomethane	1.38	94	155996	1.17	ug/L	88
6) Chloroethane	1.45	64	51554	0.72	ug/L #	69
7) Acrolein	2.16	56	83801	1.30	ug/L #	76
8) Trichlorofluoromethane	1.53	101	108691	0.67	ug/L #	18
9) Acetone	2.08	43	132259	10.70	ug/L #	87
10) 1,1-Dichloroethene	1.78	61	112928	0.70	ug/L #	58
11) Acrylonitrile	2.40	53	192878	1.38	ug/L	93
12) Iodomethane	1.85	142	123087	0.81	ug/L #	92
13) Methylene Chloride	2.05	49	187580	1.21	ug/L	91
14) Carbon Disulfide	1.80	76	349028	1.08	ug/L #	75
15) trans-1,2-Dichloroethene	2.13	96	127216	1.45	ug/L	93
16) Methyl-tert-butyl ether (M)	2.17	73	116372	1.19	ug/L #	90
17) 1,1-Dichloroethane	2.41	63	209445	1.21	ug/L #	86
18) Vinyl Acetate	2.51	43	115330	0.79	ug/L #	86
19) n-Hexane	2.16	57	122775	1.23	ug/L #	78
20) n-Butanol	2.51	57	39627	1.17	ug/L #	87
21) 2-Butanone (MEK)	2.94	43	94856	4.11	ug/L #	53
22) cis-1,2-Dichloroethene	2.66	61	181373	1.42	ug/L	93
23) Bromochloromethane	2.76	128	39931	1.01	ug/L #	1
24) Chloroform	2.79	83	212643	1.17	ug/L #	95
25) 2,2-Dichloropropane	2.71	77	160640	1.26	ug/L #	1
28) 1,2-Dichloroethane	3.18	62	224787	1.43	ug/L #	67
29) 1,1,1-Trichloroethane	2.90	97	158827	1.12	ug/L	93
30) 1,1-Dichloropropene	2.95	75	171715	1.27	ug/L	94
31) Carbon Tetrachloride	2.86	117	137641	1.00	ug/L #	88
32) Benzene	3.08	78	413862	1.20	ug/L #	1
33) Dibromomethane	3.59	93	76182	1.11	ug/L #	51
34) 1,2-Dichloropropane	3.65	63	114595	1.12	ug/L #	97
35) Trichloroethene	3.28	95	626123	6.18	ug/L #	43
36) Bromodichloromethane	3.67	83	177740	1.11	ug/L	88
38) cis-1,3-Dichloropropene	4.03	75	127752	0.88	ug/L	94
39) 4-Methyl-2-Pentanone (MIBK)	4.40	43	57615	1.10	ug/L #	55
40) trans-1,3-Dichloropropene	4.42	75	95713	0.78	ug/L #	81
41) 1,1,2-Trichloroethane	4.51	83	46682	0.73	ug/L #	72
43) Toluene	4.17	91	388006	1.17	ug/L	93
44) Ethyl Methacrylate	4.51	69	41136	0.65	ug/L #	42
45) 1,3-Dichloropropane	4.69	76	117534	1.02	ug/L #	50
46) 2-Hexanone	4.92	43	20290	0.57	ug/L #	47
48) Dibromochloromethane	4.63	129	115077	1.27	ug/L #	84
49) 1,2-Dibromoethane (EDB)	4.78	107	83207	1.19	ug/L #	89
50) Tetrachloroethene (PCE)	4.40	166	81902	1.18	ug/L	90

(#) = qualifier out of range (m) = manual integration  
 0201002.D 021020RC.M Mon Feb 17 16:16:44 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0201002.D  
 Acq On : 10 Feb 2020 3:39 pm  
 Sample : 1PPB-8260 ICAL  
 Misc : A

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:52 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title :  
 Last Update : Tue Feb 11 08:51:45 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Page

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
51) 1,1,1,2-Tetrachloroethane	5.16	131	86168	1.11 ug/L #	75
52) Chlorobenzene	5.12	112	303453	1.45 ug/L	91
53) Ethylbenzene	5.14	91	404740	1.18 ug/L	94
54) m,p-Xylene	5.24	91	444003	1.68 ug/L	97
55) o-Xylene	5.53	91	169189	0.67 ug/L #	72
56) Bromoform	5.58	173	41372	0.99 ug/L #	80
57) Styrene	5.57	104	155087	0.84 ug/L #	86
58) 1,1,2,2-Tetrachloroethane	6.11	83	90294	1.26 ug/L	
61) Isopropylbenzene	5.75	105	198057	0.74 ug/L #	1
63) Bromobenzene	6.04	156	137219	1.75 ug/L	90
64) n-Propylbenzene	6.06	91	523722	1.37 ug/L	94
65) 2-Chlorotoluene	6.17	91	379594	1.47 ug/L	91
66) 4-Chlorotoluene	6.29	126	73785	1.09 ug/L #	84
68) 1,3,5-Trimethylbenzene	6.19	105	156139	0.90 ug/L #	77
69) tert-Butylbenzene	6.44	119	176752	1.09 ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	196807	1.20 ug/L #	1
71) sec-Butylbenzene	6.49	105	196800	0.94 ug/L #	62
72) 1,3-Dichlorobenzene	6.74	146	207862	2.11 ug/L	98
79) Naphthalene	8.61	128	48808	1.00 ug/L	

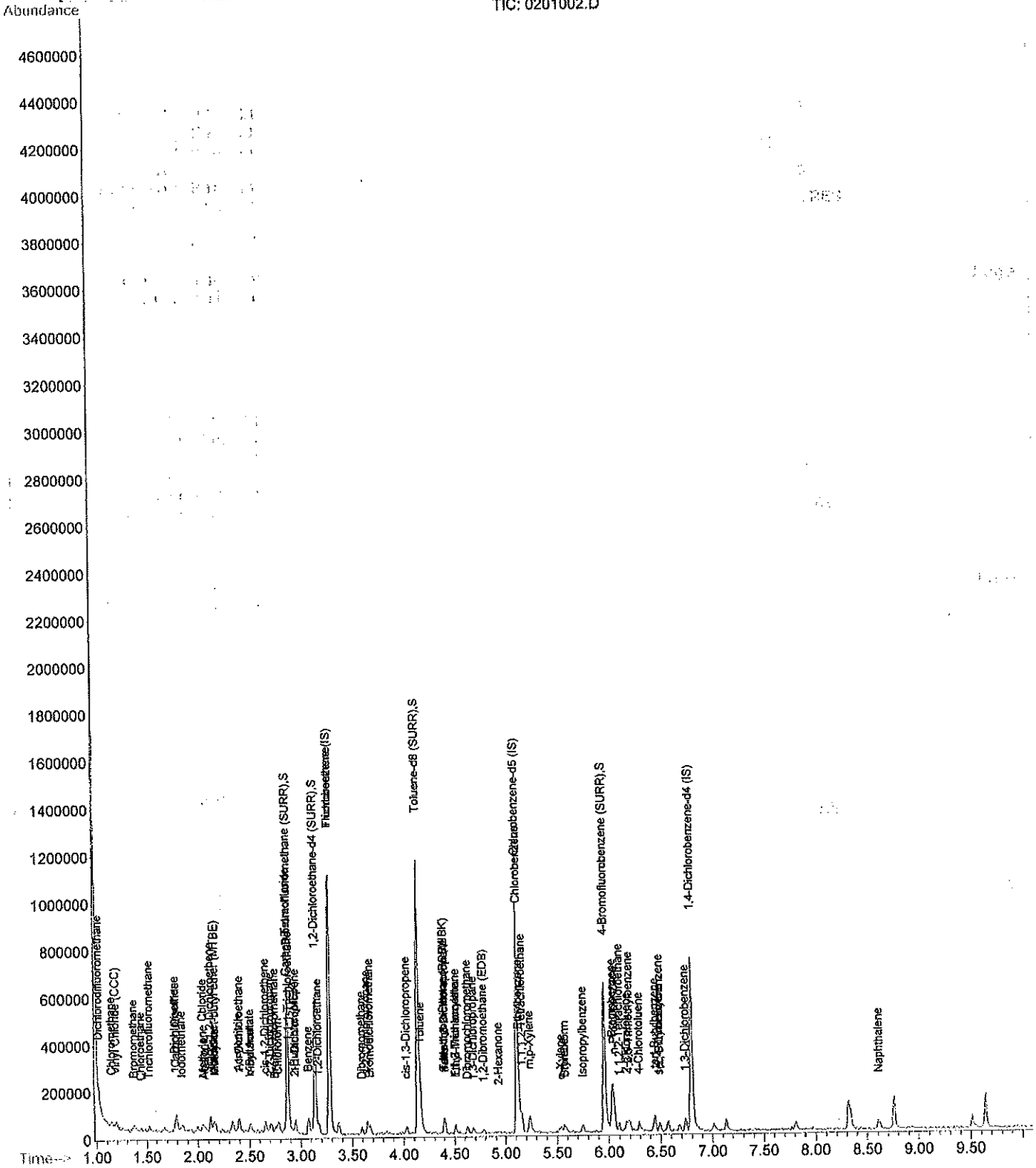
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0201002.D  
Acq On : 10 Feb 2020 3:39 pm  
Sample : 1PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 8:52 2020

Vial: 2  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0301003.D  
 Acq On : 10 Feb 2020 3:56 pm  
 Sample : 5PPB 8260 ICAL  
 Misc : A  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 9:02 2020

Vial: 3  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title  
 Last Update : Mon Feb 10 16:56:17 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6931805	50.00	ug/L	-0.01
47) Chlorobenzene-d5 (IS)	5.11	117	3736264	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	2572447	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.87	113	2385714	48.57	ug/L	0.00
Spiked Amount: 50.000	Range	74 - 132	Recovery	=	97.14%	
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2909676	48.36	ug/L	0.00
Spiked Amount: 50.000	Range	77 - 134	Recovery	=	96.72%	
42) Toluene-d8 (SURR)	4.14	98	5603724	43.16	ug/L	0.00
Spiked Amount: 50.000	Range	67 - 130	Recovery	=	86.32%	
62) 4-Bromofluorobenzene (SURR)	5.96	95	2091699	53.87	ug/L	0.00
Spiked Amount: 50.000	Range	65 - 133	Recovery	=	107.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	1062356	4.50	ug/L	
3) Chloromethane	1.16	50	1114072	5.05	ug/L	
4) Vinyl Chloride (CCC)	1.20	62	1012021	5.60	ug/L	94
5) Bromomethane	1.38	94	600955	4.75	ug/L	
6) Chloroethane	1.44	64	289726	4.26	ug/L	
7) Acrolein	2.16	56	360044	5.53	ug/L #	93
8) Trichlorofluoromethane	1.53	101	884069	5.01	ug/L	
9) Acetone	2.07	43	144139	10.51	ug/L	
10) 1,1-Dichloroethene	1.77	61	870201	5.46	ug/L	
11) Acrylonitrile	2.40	53	626288	4.28	ug/L	90
12) Iodomethane	1.85	142	738220	5.20	ug/L #	93
13) Methylene Chloride	2.04	49	840121	5.40	ug/L	
14) Carbon Disulfide	1.80	76	1860393	5.72	ug/L	
15) trans-1,2-Dichloroethene	2.13	96	438504	4.94	ug/L	87
16) Methyl-tert-butyl ether (M)	2.17	73	474499	4.39	ug/L #	65
17) 1,1-Dichloroethane	2.41	63	913463	5.17	ug/L #	89
18) Vinyl Acetate	2.52	43	744556m	4.88	ug/L	
19) n-Hexane	2.16	57	515552	5.00	ug/L #	67
20) n-Butanol	2.51	57	167035	4.53	ug/L #	49
21) 2-Butanone (MEK)	2.94	43	307941	12.40	ug/L #	96
22) cis-1,2-Dichloroethene	2.66	61	685943	5.53	ug/L	90
23) Bromochloromethane	2.76	128	189056	4.69	ug/L #	79
24) Chloroform	2.79	83	999874	5.46	ug/L	93
25) 2,2-Dichloropropane	2.71	77	658164	5.13	ug/L #	1
28) 1,2-Dichloroethane	3.18	62	791822	4.80	ug/L	90
29) 1,1,1-Trichloroethane	2.89	97	763366	5.34	ug/L	92
30) 1,1-Dichloropropene	2.95	75	693092	5.13	ug/L	99
31) Carbon Tetrachloride	2.86	117	731080	5.41	ug/L	97
32) Benzene	3.08	78	1592178	4.46	ug/L	96
33) Dibromomethane	3.60	93	338112	4.59	ug/L	88
34) 1,2-Dichloropropane	3.65	63	486962	4.60	ug/L #	89
35) Trichloroethene	3.37	95	494988	4.78	ug/L	98
36) Bromodichloromethane	3.68	83	814016	4.89	ug/L	91
37) 2-Chloroethyl-vinyl-ether	3.99	63	238998m	15.72	ug/L	
38) cis-1,3-Dichloropropene	4.03	75	539038	3.49	ug/L	96
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	555737	10.07	ug/L	
40) trans-1,3-Dichloropropene	4.42	75	421256	3.28	ug/L	92
41) 1,1,2-Trichloroethane	4.51	83	305551	4.63	ug/L	98
43) Toluene	4.17	91	1571216	4.70	ug/L	93
44) Ethyl Methacrylate	4.51	69	272529	4.03	ug/L	
45) 1,3-Dichloropropane	4.69	76	567121	4.80	ug/L	95
46) 2-Hexanone	4.93	43	376403	9.86	ug/L	
48) Dibromochloromethane	4.63	129	432835	5.29	ug/L	95
49) 1,2-Dibromoethane (EDB)	4.79	107	334125	5.31	ug/L #	88

(#) = qualifier out of range (m) = manual integration  
 0301003.D 021020RC.M Mon Feb 17 16:16:46 2020



Quantitation Report (QT Reviewed)

Data File : C:\NPHCHEM\1\DATA\021020\0301003.D  
 Acq On : 10 Feb 2020 3:56 pm  
 Sample : 5PPB 8260 ICAL  
 Misc : A

Vial: 3  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 9:02 2020

Quant Results File: 021020RC.RES

Quant Method : C:\NPHCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 16:56:17 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.41	166	364204	5.80	ug/L	96
51) 1,1,1,2-Tetrachloroethane	5.16	131	409389	5.88	ug/L #	48
52) Chlorobenzene	5.12	112	1025533	5.44	ug/L	88
53) Ethylbenzene	5.14	91	1752250	5.95	ug/L	92
54) m,p-Xylene	5.24	91	2538819	10.84	ug/L	98
55) o-Xylene	5.54	91	879853	3.99	ug/L #	87
56) Bromoform	5.58	173	189652	4.86	ug/L #	98
57) Styrene	5.57	104	649676	3.99	ug/L #	70
58) 1,1,2,2-Tetrachloroethane	6.10	83	354886	5.44	ug/L #	94
59) trans-1,4-Dichloro-2-buten	6.24	53	103508	5.42	ug/L #	57
60) 1,2,3-Trichloropropane	6.20	75	226885	3.79	ug/L	79
61) Isopropylbenzene	5.75	105	1054467	4.58	ug/L	94
63) Bromobenzene	6.03	156	387785	5.63	ug/L	92
64) n-Propylbenzene	6.05	91	1828396	5.54	ug/L	98
65) 2-Chlorotoluene	6.17	91	1231503	5.46	ug/L	95
66) 4-Chlorotoluene	6.29	126	267899	4.62	ug/L	78
68) 1,3,5-Trimethylbenzene	6.20	105	994192	5.76	ug/L	96
69) tert-Butylbenzene	6.44	119	917709	5.70	ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	929083	5.76	ug/L #	1
71) sec-Butylbenzene	6.57	105	1170086	5.76	ug/L #	95
72) 1,3-Dichlorobenzene	6.74	146	596174	6.05	ug/L	96
73) 1,4-Dichlorobenzene	6.80	148	416346	6.27	ug/L	89
74) p-Isopropyltoluene	6.68	119	695666	4.79	ug/L	93
75) 1,2-Dichlorobenzene	7.13	146	532802	5.91	ug/L	100
76) n-Butylbenzene	7.02	91	697470	4.47	ug/L	90
77) 1,2-Dibromo-3-chloropropan	7.77	155	10859	3.14	ug/L	9
78) 1,2,4-Trichlorobenzene	8.34	180	172123	4.88	ug/L	98
79) Naphthalene	8.61	128	260429	4.85	ug/L	9
80) Hexachloro-1,3-butadiene	8.31	225	97929	6.00	ug/L	9
81) 1,2,3-Trichlorobenzene	8.76	180	146460	5.42	ug/L	9
82) 1-Methylnaphthalene	9.63	142	46084	5.26	ug/L	9
83) 2-Methylnaphthalene	9.52	142	47810	5.61	ug/L #	11

Quantitation Report

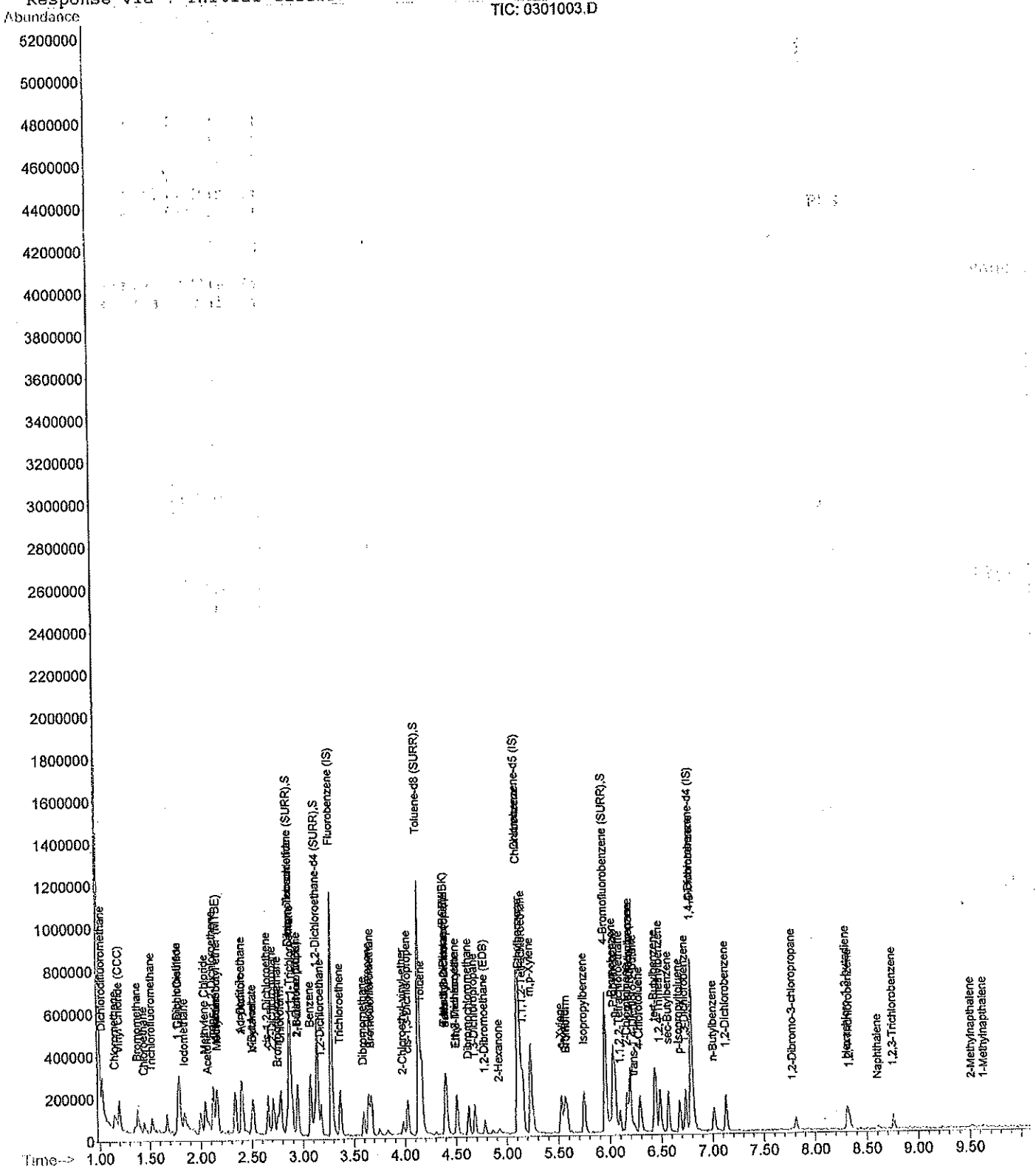
Data File : C:\HPCHEM\1\DATA\021020\0301003.D  
Acq On : 10 Feb 2020 3:56 pm  
Sample : 5PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 9:02 2020

Vial: 3  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration

Log



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0401004.D  
 Acq On : 10 Feb 2020 4:13 pm  
 Sample : 10PPB 8260 ICAL  
 Misc : A

Vial: 4  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

Page

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:59 2020

Quant Results File: 021020RC.RES

Quant Method : G:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 16:52:49 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6226253	50.00	ug/L	-0.02
47) Chlorobenzene-d5 (IS)	5.11	117	4035046	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	2665584	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.87	113	2411565	53.92	ug/L	0.00
Spiked Amount	50.000	Range	74 - 132	Recovery	=	107.84%
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2794400	51.28	ug/L	6.06%
Spiked Amount	50.000	Range	77 - 134	Recovery	=	102.56%
42) Toluene-d8 (SURR)	4.14	98	4949333	42.08	ug/L	0.00
Spiked Amount	50.000	Range	67 - 130	Recovery	=	84.16%
62) 4-Bromofluorobenzene (SURR)	5.96	95	1757955	41.42	ug/L	0.00
Spiked Amount	50.000	Range	65 - 133	Recovery	=	82.84%

Target Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
2) Dichlorodifluoromethane	1.03	85	2433211	11.43	ug/L		
3) Chloromethane	1.15	50	2360210	11.99	ug/L #		97
4) Vinyl Chloride (CCC)	1.20	62	1825864	11.22	ug/L		98
5) Bromomethane	1.37	94	1239789m	11.09	ug/L		
6) Chloroethane	1.44	64	614196	10.23	ug/L		
7) Acrolein	2.16	56	678134	11.61	ug/L #		92
8) Trichlorofluoromethane	1.52	101	1530106	10.75	ug/L		
9) Acetone	2.07	43	260482	21.19	ug/L		
10) 1,1-Dichloroethene	1.78	61	1714432	12.29	ug/L		
11) Acrylonitrile	2.40	53	1372230	10.39	ug/L		98
12) Iodomethane	1.85	142	1431546	11.24	ug/L		
13) Methylene Chloride	2.05	49	1582479	11.33	ug/L		
14) Carbon Disulfide	1.79	76	3621348	12.62	ug/L		
15) trans-1,2-Dichloroethene	2.13	96	915512	11.71	ug/L		89
16) Methyl-tert-butyl ether (M)	2.17	73	881329	9.08	ug/L #		62
17) 1,1-Dichloroethane	2.41	63	1691616	10.63	ug/L		98
18) Vinyl Acetate	2.51	43	1582854m	11.15	ug/L		
19) n-Hexane	2.16	57	992614	10.87	ug/L #		75
20) n-Butanol	2.51	57	328566	10.02	ug/L #		67
21) 2-Butanone (MEK)	2.94	43	545741	24.20	ug/L #		90
22) cis-1,2-Dichloroethene	2.66	61	1310267	11.94	ug/L		96
23) Bromochloromethane	2.76	128	360092	9.74	ug/L		
24) Chloroform	2.79	83	1814401	11.07	ug/L		97
25) 2,2-Dichloropropane	2.71	77	1210855	10.52	ug/L #		1
28) 1,2-Dichloroethane	3.18	62	1452731	9.67	ug/L		99
29) 1,1,1-Trichloroethane	2.89	97	1401637	10.97	ug/L		96
30) 1,1-Dichloropropene	2.95	75	1320215	10.98	ug/L		94
31) Carbon Tetrachloride	2.86	117	1359967	11.33	ug/L		92
32) Benzene	3.08	78	3222638	10.11	ug/L		98
33) Dibromomethane	3.60	93	659227	9.96	ug/L		88
34) 1,2-Dichloropropane	3.65	63	947804	10.02	ug/L		99
35) Trichloroethene	3.37	95	992580	10.80	ug/L		97
36) Bromodichloromethane	3.68	83	1470068	9.80	ug/L		97
37) 2-Chloroethyl-vinyl-ether	3.98	63	543041	42.44	ug/L		
38) cis-1,3-Dichloropropene	4.03	75	1322797	9.76	ug/L		
39) 4-Methyl-2-Pentanone (MIBK)	4.40	43	1054483	21.32	ug/L		
40) trans-1,3-Dichloropropene	4.41	75	1131824	10.09	ug/L		
41) 1,1,2-Trichloroethane	4.51	83	608986	10.51	ug/L		
43) Toluene	4.17	91	3119364	10.57	ug/L		97
44) Ethyl Methacrylate	4.50	69	478047m	7.93	ug/L		
45) 1,3-Dichloropropane	4.69	76	987230	9.28	ug/L		96
46) 2-Hexanone	4.92	43	767129	22.47	ug/L		
48) Dibromochloromethane	4.63	129	887751	9.85	ug/L		97
49) 1,2-Dibromoethane (EDB)	4.78	107	672408	9.91	ug/L #		98

(#) = qualifier out of range (m) = manual integration  
 0401004.D 021020RC.M Mon Feb 17 16:16:50 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0401004.D  
 Acq On : 10 Feb 2020 4:13 pm  
 Sample : 10PPB 8260 ICAL  
 Misc : A

Vial: 4  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:59 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Feb 10 16:52:49 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	691406	10.11	ug/L	86
51) 1,1,1,2-Tetrachloroethane	5.16	131	767899	10.09	ug/L	93
52) Chlorobenzene	5.12	112	2079704	10.19	ug/L	97
53) Ethylbenzene	5.14	91	3317353	10.38	ug/L	95
54) m,p-Xylene	5.23	91	5561942	22.06	ug/L	
55) o-Xylene	5.53	91	2445504	10.58	ug/L	
56) Bromoform	5.58	173	431210	10.25	ug/L	98
57) Styrene	5.57	104	1737147	9.86	ug/L	96
58) 1,1,2,2-Tetrachloroethane	6.10	83	706466	9.99	ug/L #	93
59) trans-1,4-Dichloro-2-buten	6.23	53	179633	8.46	ug/L	96
60) 1,2,3-Trichloropropane	6.20	75	617668m	9.18	ug/L	
61) Isopropylbenzene	5.75	105	2456477	9.87	ug/L	97
63) Bromobenzene	6.03	156	759525	10.14	ug/L	84
64) n-Propylbenzene	6.05	91	3832611	10.80	ug/L	99
65) 2-Chlorotoluene	6.17	91	2435632	9.96	ug/L	97
66) 4-Chlorotoluene	6.29	126	599742	9.40	ug/L	80
68) 1,3,5-Trimethylbenzene	6.20	105	2083031	11.77	ug/L	93
69) tert-Butylbenzene	6.44	119	1890646	11.52	ug/L	94
70) 1,2,4-Trimethylbenzene	6.49	105	2055184	12.50	ug/L #	1
71) sec-Butylbenzene	6.57	105	2536265	12.27	ug/L #	98
72) 1,3-Dichlorobenzene	6.74	146	1215419	11.90	ug/L	94
73) 1,4-Dichlorobenzene	6.81	148	807568	11.66	ug/L	97
74) p-Isopropyltoluene	6.68	119	1647832	11.06	ug/L	97
75) 1,2-Dichlorobenzene	7.13	146	1086066	11.66	ug/L	99
76) n-Butylbenzene	7.01	91	1793050	11.31	ug/L	97
77) 1,2-Dibromo-3-chloropropan	7.78	155	26400	7.13	ug/L #	53
78) 1,2,4-Trichlorobenzene	8.34	180	351576	9.63	ug/L	89
79) Naphthalene	6.29	128	509445	9.14	ug/L	
80) Hexachloro-1,3-butadiene	8.32	225	216121	13.41	ug/L	87
81) 1,2,3-Trichlorobenzene	8.76	180	307967	11.07	ug/L #	87
82) 1-Methylnapthalene	9.64	142	64472	7.21	ug/L	
83) 2-Methylnapthalene	9.51	142	40209	4.42	ug/L	

(#) = qualifier out of range (m) = manual integration  
 0401004.D 021020RC.M Mon Feb 17 16:16:50 2020

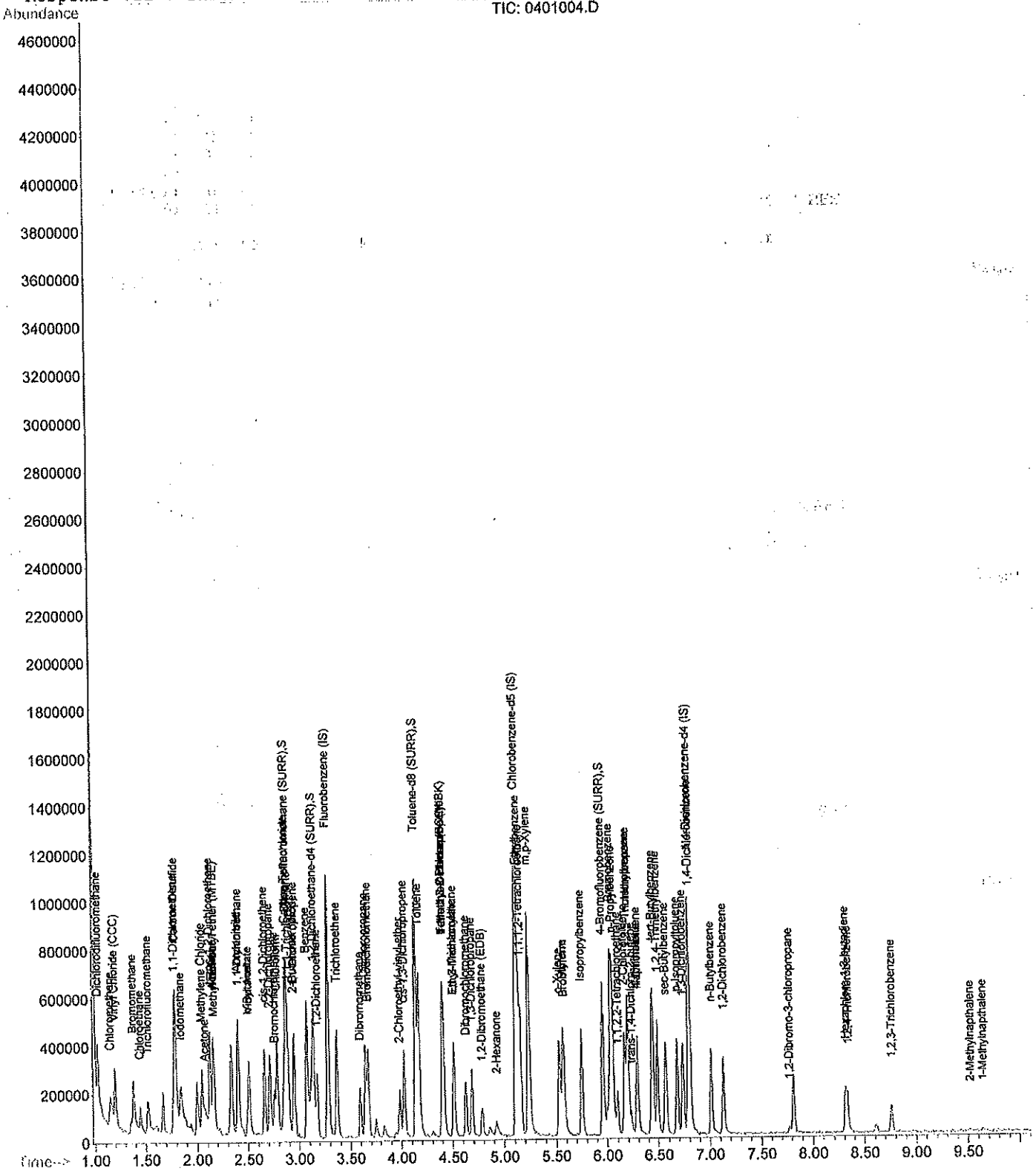
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0401004.D  
Acq On : 10 Feb 2020 4:13 pm  
Sample : 10PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 8:59 2020

Vial: 4  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0501005.D  
 Acq On : 10 Feb 2020 4:30 pm  
 Sample : 20PPB 8260 ICAL  
 Misc : A

Vial: 5  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

0 850 900 950

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MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 9:01 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 15:38:08 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	7042748	50.00	ug/L	-0.01
47) Chlorobenzene-d5 (IS)	5.11	117	4263184	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	3089099	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2359692	48.47	ug/L	0.00
Spiked Amount 50.000	Range	74 - 132	Recovery =	96.94%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2996491	50.90	ug/L	0.00
Spiked Amount 50.000	Range	77 - 134	Recovery =	101.80%		
42) Toluene-d8 (SURR)	4.14	98	5687497	44.13	ug/L	0.00
Spiked Amount 50.000	Range	67 - 130	Recovery =	88.26%		
62) 4-Bromofluorobenzene (SURR)	5.96	95	2170884	49.85	ug/L	0.00
Spiked Amount 50.000	Range	65 - 133	Recovery =	99.70%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	4985442	23.73	ug/L	
3) Chloromethane	1.16	50	4637221	23.57	ug/L	
4) Vinyl Chloride (CCG)	1.19	62	3713740	22.13	ug/L	
5) Bromomethane	1.38	94	2675808	23.56	ug/L	83
6) Chloroethane	1.45	64	1435751	23.36	ug/L	
7) Acrolein	2.16	56	1329821	22.19	ug/L #	92
8) Trichlorofluoromethane	1.52	101	3627069m	25.09	ug/L	
9) Acetone	2.07	43	636369	45.35	ug/L #	95
10) 1,1-Dichloroethene	1.78	61	3073470m	21.37	ug/L	
11) Acrylonitrile	2.40	53	2847004	20.17	ug/L	92
12) Iodomethane	1.85	142	3042280	22.77	ug/L	98
13) Methylene Chloride	2.05	49	3072240	21.06	ug/L	
14) Carbon Disulfide	1.79	76	6530722	22.33	ug/L	
15) trans-1,2-Dichloroethene	2.13	96	1725663	21.09	ug/L	92
16) Methyl-tert-butyl ether (M)	2.17	73	1948459	17.56	ug/L #	72
17) 1,1-Dichloroethane	2.41	63	3659580	22.09	ug/L	98
18) Vinyl Acetate	2.52	43	2849565	18.08	ug/L	99
19) n-Hexane	2.16	57	1998866	20.35	ug/L	89
20) n-Butanol	2.50	57	746721m	20.29	ug/L	
21) 2-Butanone (MEK)	2.94	43	1144743	45.80	ug/L #	97
22) cis-1,2-Dichloroethene	2.66	61	2594512	22.78	ug/L	98
23) Bromochloromethane	2.76	128	824159	20.75	ug/L #	96
24) Chloroform	2.79	83	3588415	20.84	ug/L	99
25) 2,2-Dichloropropane	2.71	77	2543248	20.66	ug/L #	4
28) 1,2-Dichloroethane	3.18	62	3193928	19.61	ug/L	100
29) 1,1,1-Trichloroethane	2.89	97	2856144	20.95	ug/L	97
30) 1,1-Dichloropropene	2.95	75	2568790	20.01	ug/L	98
31) Carbon Tetrachloride	2.86	117	2663492	20.57	ug/L	94
32) Benzene	3.08	78	6816416	19.65	ug/L	98
33) Dibromomethane	3.60	93	1352659	18.70	ug/L	94
34) 1,2-Dichloropropane	3.65	63	1986769	19.36	ug/L	91
35) Trichloroethene	3.37	95	1977845	20.05	ug/L	99
36) Bromodichloromethane	3.68	83	3167048	19.43	ug/L	98
37) 2-Chloroethyl-vinyl-ether	3.98	63	1377497m	106.22	ug/L	
38) cis-1,3-Dichloropropene	4.03	75	2924800	20.03	ug/L	
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	2321572	41.87	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	2419667	19.87	ug/L	
41) 1,1,2-Trichloroethane	4.51	83	1244440	19.80	ug/L	
43) Toluene	4.17	91	6360331	20.22	ug/L	98
44) Ethyl Methacrylate	4.50	69	1189505m	17.73	ug/L	
45) 1,3-Dichloropropane	4.69	76	2278531	19.72	ug/L	100
46) 2-Hexanone	4.92	43	1666074	43.43	ug/L	
48) Dibromochloromethane	4.62	129	1857865	19.74	ug/L	
49) 1,2-Dibromoethane (EDB)	4.78	107	1510089	21.51	ug/L #	91

(#) = qualifier out of range (m) = manual integration  
 0501005.D 021020RC.M Mon Feb 17 16:16:53 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0501005.D  
 Acq On : 10 Feb 2020 4:30 pm  
 Sample : 20PPB 8260 ICAL  
 Misc : A

Vial: 5  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 9:01 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 15:38:08 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Page

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	1474381	20.96	ug/L	91
51) 1,1,1,2-Tetrachloroethane	5.16	131	1597522	20.22	ug/L	95
52) Chlorobenzene	5.12	112	4519347	21.72	ug/L	96
53) Ethylbenzene	5.14	91	7055122	21.64	ug/L	97
54) m,p-Xylene	5.23	91	11577749	45.30	ug/L	
55) o-Xylene	5.53	91	5758528	24.59	ug/L	
56) Bromoform	5.58	173	884965	19.83	ug/L #	94S
57) Styrene	5.57	104	4033217	22.60	ug/L	92
58) 1,1,2,2-Tetrachloroethane	6.10	83	1545637	20.84	ug/L	99
59) trans-1,4-Dichloro-2-buten	6.23	53	432625	19.57	ug/L	87
60) 1,2,3-Trichloropropane	6.20	75	1398276	20.65	ug/L	
61) Isopropylbenzene	5.75	105	5618829	22.23	ug/L	98
63) Bromobenzene	6.03	156	1713866	22.30	ug/L	92
64) n-Propylbenzene	6.05	91	8132704	22.59	ug/L	98
65) 2-Chlorotoluene	6.17	91	5536500	22.32	ug/L	98
66) 4-Chlorotoluene	6.29	126	1443717	22.35	ug/L	91
68) 1,3,5-Trimethylbenzene	6.20	105	4783287	24.36	ug/L	96
69) tert-Butylbenzene	6.44	119	4371698	23.70	ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	4332403	23.63	ug/L #	98
71) sec-Butylbenzene	6.57	105	5749921	25.20	ug/L #	97
72) 1,3-Dichlorobenzene	6.74	146	2650338	23.09	ug/L	97
73) 1,4-Dichlorobenzene	6.80	148	1811227	23.23	ug/L	98
74) p-Isopropyltoluene	6.68	119	4064792	24.56	ug/L	99
75) 1,2-Dichlorobenzene	7.13	146	2384059	22.59	ug/L	98
76) n-Butylbenzene	7.01	91	4317338	24.77	ug/L	98
77) 1,2-Dibromo-3-chloropropan	7.78	155	92997	21.44	ug/L	93
78) 1,2,4-Trichlorobenzene	8.34	180	974530	23.40	ug/L	96
79) Naphthalene	8.61	128	1401027	21.76	ug/L	
80) Hexachloro-1,3-butadiene	8.31	225	418708	22.76	ug/L	92
81) 1,2,3-Trichlorobenzene	8.76	180	740157	23.44	ug/L	97
82) 1-Methylnapthalene	9.63	142	170295	16.01	ug/L	
83) 2-Methylnapthalene	9.52	142	109567	9.54	ug/L	

(#) = qualifier out of range (m) = manual integration  
 0501005.D 021020RC.M Mon Feb 17 16:16:53 2020

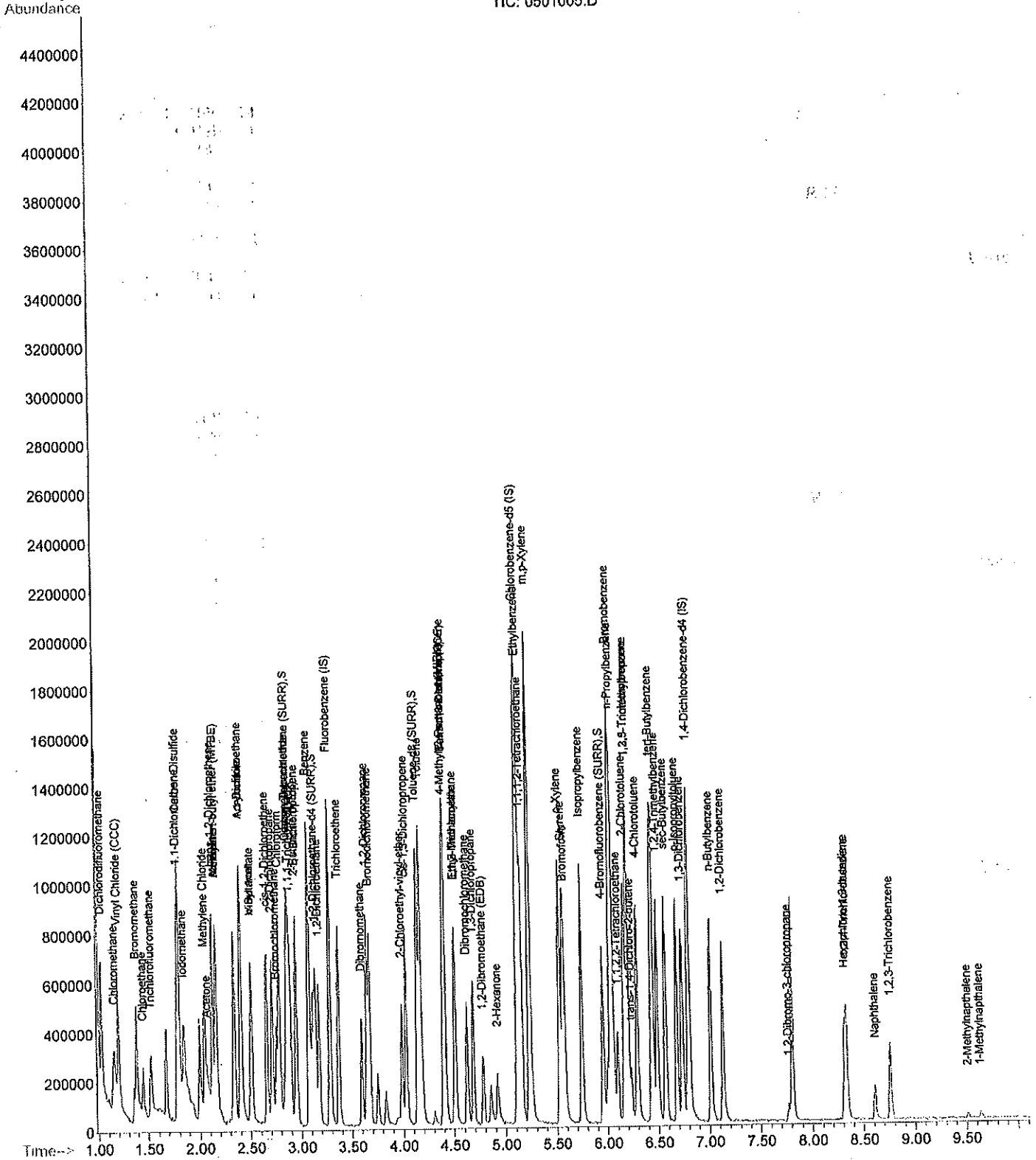
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0501005.D  
Acq On : 10 Feb 2020 4:30 pm  
Sample : 20PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 9:01 2020

Vial: 5  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0101001.D  
 Acq On : 10 Feb 2020 3:21 pm  
 Sample : 50PPB 8260 ICAL/BFB TUNE  
 Misc : A

Vial: 1  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 10:03 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title :  
 Last Update : Tue Feb 11 10:02:10 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6552781	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4515974	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.80	150	3756936	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2364835	50.77	ug/L	0.00
Spiked Amount 50.000	Range	74 - 132	Recovery =	101.54%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2867030	49.41	ug/L	0.00
Spiked Amount 50.000	Range	77 - 134	Recovery =	98.82%		
42) Toluene-d8 (SURR)	4.14	98	6285739	55.13	ug/L	0.00
Spiked Amount 50.000	Range	67 - 130	Recovery =	110.26%		
62) 4-Bromofluorobenzene (SURR)	5.96	95	2389317	51.85	ug/L	0.00
Spiked Amount 50.000	Range	65 - 133	Recovery =	103.70%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	13048436	54.23	ug/L	100
3) Chloromethane	1.15	50	11955214	52.99	ug/L	100
4) Vinyl Chloride (CCC)	1.20	62	10212027	52.57	ug/L	100
5) Bromomethane	1.38	94	6616002	52.58	ug/L	100
6) Chloroethane	1.44	64	3561222	54.24	ug/L	100
7) Acrolein	2.16	56	3042405	47.32	ug/L #	100
8) Trichlorofluoromethane	1.52	101	8758677	52.55	ug/L	100
9) Acetone	2.07	43	1601596	132.90	ug/L #	98
10) 1,1-Dichloroethene	1.77	61	8040247	51.12	ug/L	100
11) Acrylonitrile	2.40	53	7374911	53.80	ug/L	99
12) Iodomethane	1.84	142	8012129m	53.84	ug/L	100
13) Methylene Chloride	2.05	49	7723620	50.58	ug/L	100
14) Carbon Disulfide	1.79	76	17177075	51.04	ug/L	100
15) trans-1,2-Dichloroethene	2.13	96	4348806	50.53	ug/L	99
16) Methyl-tert-butyl ether (M)	2.17	73	4788288	50.02	ug/L	100
17) 1,1-Dichloroethane	2.41	63	8896199	52.31	ug/L	100
18) Vinyl Acetate	2.51	43	7632707	50.42	ug/L	100
19) n-Hexane	2.16	57	4961962	50.97	ug/L	100
20) n-Butanol	2.51	57	1715579	49.83	ug/L	100
21) 2-Butanone (MEK)	2.94	43	2777857	121.29	ug/L	100
22) cis-1,2-Dichloroethene	2.66	61	6363740	50.75	ug/L	100
23) Bromochloromethane	2.76	128	2054175	53.10	ug/L #	100
24) Chloroform	2.79	83	9120412	51.24	ug/L	100
25) 2,2-Dichloropropane	2.72	77	6582004	52.55	ug/L	100
28) 1,2-Dichloroethane	3.18	62	7938199	51.66	ug/L	100
29) 1,1,1-Trichloroethane	2.89	97	7021730	50.39	ug/L	100
30) 1,1-Dichloropropene	2.95	75	6709995	50.77	ug/L	100
31) Carbon Tetrachloride	2.86	117	6987203	51.98	ug/L	100
32) Benzene	3.08	78	17294760	50.95	ug/L	100
33) Dibromomethane	3.60	93	3344075	49.48	ug/L	99
34) 1,2-Dichloropropane	3.65	63	5323655	53.01	ug/L	100
35) Trichloroethene	3.37	95	5199630	52.34	ug/L	100
36) Bromodichloromethane	3.68	83	8190453	51.96	ug/L	99
37) 2-Chloroethyl-vinyl-ether	3.99	63	4484259	180.48	ug/L	100
38) cis-1,3-Dichloropropene	4.03	75	7373774	49.36	ug/L	95
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	6913086	113.05	ug/L	100
40) trans-1,3-Dichloropropene	4.41	75	6645789	47.98	ug/L	99
41) 1,1,2-Trichloroethane	4.51	83	3197628	50.95	ug/L	99
43) Toluene	4.17	91	16482135	50.63	ug/L	100
44) Ethyl Methacrylate	4.50	69	3582872	47.78	ug/L	99
45) 1,3-Dichloropropane	4.69	76	5711714	50.27	ug/L	100
46) 2-Hexanone	4.91	43	4365651m	110.04	ug/L	100
48) Dibromochloromethane	4.63	129	5060591	49.94	ug/L	100
49) 1,2-Dibromoethane (EDB)	4.78	107	3904378	49.83	ug/L	100

(#) = qualifier out of range (m) = manual integration  
 0101001.D 021020RC.M Mon Feb 17 16:16:58 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0101001.D  
 Acq On : 10 Feb 2020 3:21 pm  
 Sample : 50PPB 8260 ICAL/BFB TUNE  
 Misc : A

Vial: 1  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 10:03 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:02:10 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	3832713	48.98	ug/L	99
51) 1,1,1,2-Tetrachloroethane	5.16	131	4333434	48.97	ug/L #	85
52) Chlorobenzene	5.12	112	11618865	49.51	ug/L	100
53) Ethylbenzene	5.14	91	19404303	50.42	ug/L	100
54) m,p-Xylene	5.23	91	30432567	102.39	ug/L	98
55) o-Xylene	5.53	91	14166339	46.80	ug/L	96
56) Bromoform	5.58	173	2307987	49.08	ug/L	100
57) Styrene	5.57	104	11148384	52.44	ug/L	99
58) 1,1,2,2-Tetrachloroethane	6.10	83	3889535	46.41	ug/L	100
59) trans-1,4-Dichloro-2-buten	6.23	53	1152755	51.16	ug/L	100
60) 1,2,3-Trichloropropane	6.20	75	3505145m	51.43	ug/L	
61) Isopropylbenzene	5.75	105	16039247	53.64	ug/L	100
63) Bromobenzene	6.03	156	4380301	49.71	ug/L	100
64) n-Propylbenzene	6.05	91	21553347	50.34	ug/L	100
65) 2-Chlorotoluene	6.17	91	14891942	51.34	ug/L	100
66) 4-Chlorotoluene	6.29	126	4253994	54.27	ug/L	100
68) 1,3,5-Trimethylbenzene	6.20	105	12880842	47.66	ug/L	100
69) tert-Butylbenzene	6.44	119	12340322	48.69	ug/L	100
70) 1,2,4-Trimethylbenzene	6.49	105	12253999	47.53	ug/L #	100
71) sec-Butylbenzene	6.57	105	15418842	47.11	ug/L #	100
72) 1,3-Dichlorobenzene	6.74	146	6826515	45.53	ug/L	100
73) 1,4-Dichlorobenzene	6.81	148	4523093	45.36	ug/L	100
74) p-Isopropyltoluene	6.68	119	11283372	50.28	ug/L	100
75) 1,2-Dichlorobenzene	7.13	146	6510908	46.25	ug/L	100
76) n-Butylbenzene	7.01	91	12391667	51.00	ug/L	100
77) 1,2-Dibromo-3-chloropropan	7.78	155	262065	54.90	ug/L	100
78) 1,2,4-Trichlorobenzene	8.34	180	2742868	50.82	ug/L	100
79) Naphthalene	8.61	128	3808987	49.61	ug/L	100
80) Hexachloro-1,3-butadiene	8.32	225	1105854	48.32	ug/L	100
81) 1,2,3-Trichlorobenzene	8.76	180	2026914	47.23	ug/L	100
82) 1-Methylnapthalene	9.64	142	587679	57.39	ug/L	100
83) 2-Methylnapthalene	9.51	142	463550	52.97	ug/L	99

(#) = qualifier out of range (m) = manual integration  
 0101001.D 021020RC.M Mon Feb 17 16:16:58 2020

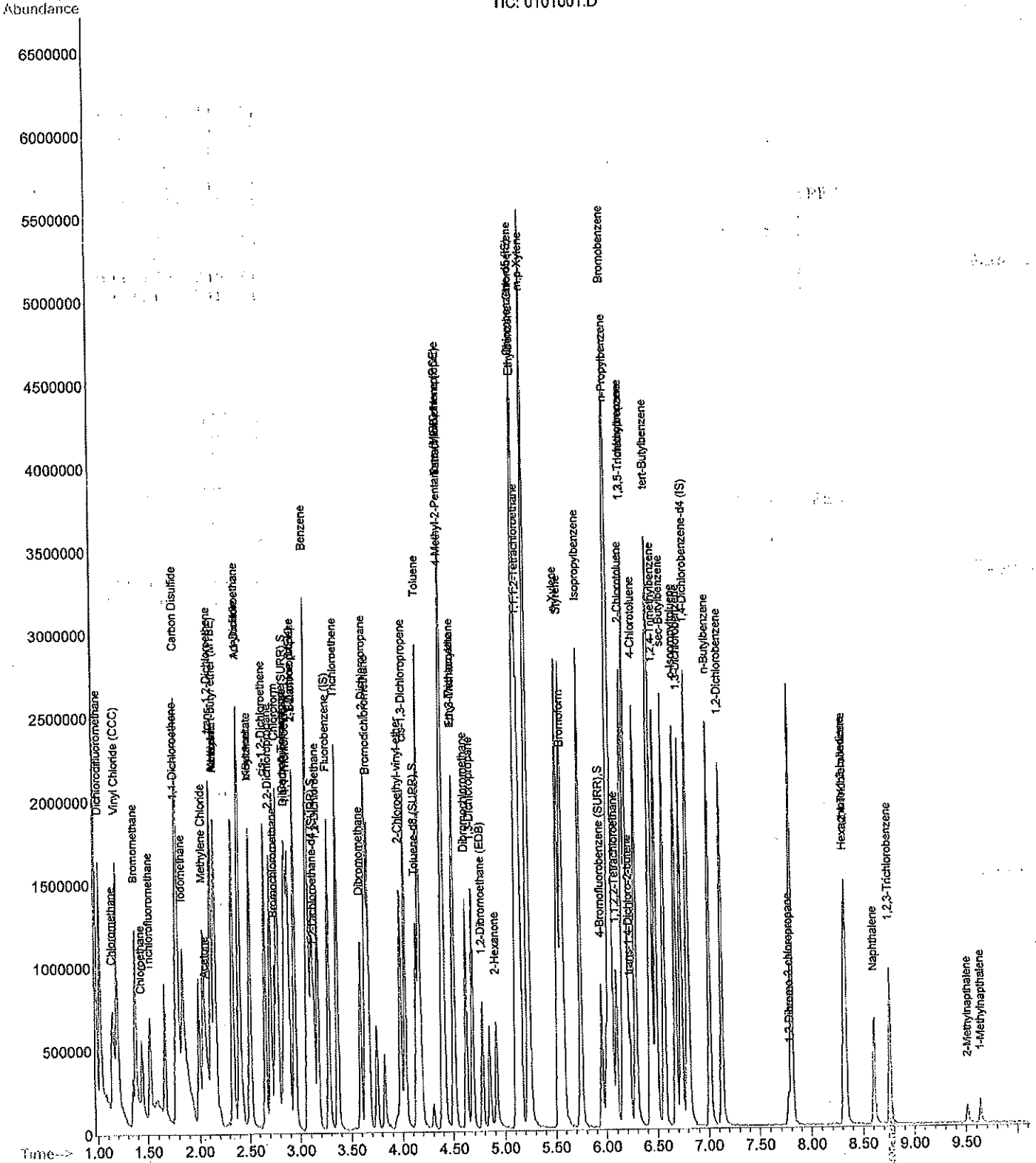
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0101001.D  
Acq On : 10 Feb 2020 3:21 pm  
Sample : 50PPB 8260 ICAL/BFB TUNE  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 10:03 2020

Vial: 1  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\NHCHEM\1\DATA\021020\0601006.D  
 Acq On : 10 Feb 2020 4:48 pm  
 Sample : 100PPB 8260 ICAL  
 Misc : A

Vial: 6  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:58 2020

Quant Results File: 021020RC.RES

Quant Method : C:\NHCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:47:38 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6631474	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4989685	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	4280172	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2482274	53.58	ug/L	0.00
Spiked Amount : 50.000	Range	74 - 132	Recovery =	107.16%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3174612	54.86	ug/L	0.00
Spiked Amount : 50.000	Range	77 - 134	Recovery =	109.72%		
42) Toluene-d8 (SURR)	4.14	98	6588974	53.45	ug/L	0.00
Spiked Amount : 50.000	Range	67 - 130	Recovery =	106.90%		
62) 4-Bromofluorobenzene (SURR)	5.96	95	2719389	52.12	ug/L	0.00
Spiked Amount : 50.000	Range	65 - 133	Recovery =	104.24%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	25686505	115.67	ug/L	
3) Chloromethane	1.15	50	23050328	109.28	ug/L	100
4) Vinyl Chloride (GCC)	1.20	62	20220986	120.04	ug/L	100
5) Bromomethane	1.38	94	12884986	104.64	ug/L	
6) Chloroethane	1.44	64	7069042	104.66	ug/L	
7) Acrolein	2.16	56	6374941	102.70	ug/L #	98
8) Trichlorofluoromethane	1.52	101	17582027	105.00	ug/L	
9) Acetone	2.07	43	3319785	262.15	ug/L	
10) 1,1-Dichloroethene	1.78	61	15970822m	106.00	ug/L	
11) Acrylonitrile	2.40	53	15042260	109.01	ug/L	90
12) Iodomethane	1.85	142	16459731	114.29	ug/L #	96
13) Methylene Chloride	2.05	49	15597829	105.95	ug/L	97
14) Carbon Disulfide	1.79	76	34401635	108.70	ug/L	
15) trans-1,2-Dichloroethene	2.13	96	8893232	104.58	ug/L	97
16) Methyl-tert-butyl ether (M)	2.17	73	10870330	104.85	ug/L	91
17) 1,1-Dichloroethane	2.41	63	17009590	100.40	ug/L	97
18) Vinyl Acetate	2.51	43	16610003	114.87	ug/L	99
19) n-Hexane	2.16	57	10164007	103.25	ug/L	98
20) n-Butanol	2.51	57	3830666	106.81	ug/L	89
21) 2-Butanone (MEK)	2.94	43	6204961	263.10	ug/L	100
22) cis-1,2-Dichloroethene	2.66	61	12789906	107.32	ug/L	99
23) Bromochloromethane	2.76	128	4193378	107.65	ug/L #	99
24) Chloroform	2.79	83	18192624	103.30	ug/L	99
25) 2,2-Dichloropropane	2.72	77	13302904	108.35	ug/L	97
28) 1,2-Dichloroethane	3.18	62	16524311	104.84	ug/L	98
29) 1,1,1-Trichloroethane	2.90	97	14443955	103.27	ug/L	100
30) 1,1-Dichloropropene	2.95	75	14006278	108.08	ug/L	99
31) Carbon Tetrachloride	2.86	117	13937954	102.70	ug/L	99
32) Benzene	3.08	78	37595418	111.47	ug/L	98
33) Dibromomethane	3.60	93	7296866	105.34	ug/L	98
34) 1,2-Dichloropropane	3.65	63	10896686	108.84	ug/L	99
35) Trichloroethene	3.37	95	10665240	106.93	ug/L	99
36) Bromodichloromethane	3.68	83	16956544	106.31	ug/L	99
37) 2-Chloroethyl-vinyl-ether	3.98	63	11739990m	754.06	ug/L	
38) cis-1,3-Dichloropropene	4.03	75	16624991	115.23	ug/L	97
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	16340989	310.61	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	14199258	115.84	ug/L	88
41) 1,1,2-Trichloroethane	4.51	83	7080546	112.35	ug/L	98
43) Toluene	4.17	91	36117071	112.75	ug/L	99
44) Ethyl Methacrylate	4.50	69	8250679	133.78	ug/L	96
45) 1,3-Dichloropropane	4.69	76	13048994	113.49	ug/L	99
46) 2-Hexanone	4.91	43	10964569	301.37	ug/L	
48) Dibromochloromethane	4.63	129	11431240	105.18	ug/L	98
49) 1,2-Dibromoethane (EDB)	4.78	107	8605676	102.65	ug/L	97

(#) = qualifier out of range (m) = manual integration  
 0601006.D 021020RC.M Mon Feb 17 16:17:02 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0601006.D  
 Acq On : 10 Feb 2020 4:48 pm  
 Sample : 100PPB 8260 ICAL  
 Misc : A

Vial: 6  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:58 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:47:38 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethane (PCE)	4.40	166	8440202	101.19	ug/L	94
51) 1,1,1,2-Tetrachloroethane	5.16	131	9212622	98.43	ug/L #	82
52) Chlorobenzene	5.12	112	25037808	101.17	ug/L	98
53) Ethylbenzene	5.14	91	41412569	103.60	ug/L	98
54) m,p-Xylene	5.23	91	62674311	198.74	ug/L	97
55) o-Xylene	5.53	91	33206351	112.56	ug/L	98
56) Bromoform	5.58	173	5288533	101.88	ug/L	97
57) Styrene	5.57	104	24632723	115.26	ug/L	94
58) 1,1,2,2-Tetrachloroethane	6.10	83	9130523	104.97	ug/L	98
59) trans-1,4-Dichloro-2-buten	6.23	53	2503712	100.46	ug/L	89
60) 1,2,3-Trichloropropane	6.20	75	7324920	97.38	ug/L	89
61) Isopropylbenzene	5.75	105	34789870	111.66	ug/L	99
63) Bromobenzene	6.03	156	9502935	101.23	ug/L	98
64) n-Propylbenzene	6.05	91	47136297	106.09	ug/L	99
65) 2-Chlorotoluene	6.17	91	31889600	105.43	ug/L	100
66) 4-Chlorotoluene	6.29	126	8661174	110.59	ug/L	88
68) 1,3,5-Trimethylbenzene	6.20	105	27628500	96.36	ug/L	97
69) tert-Butylbenzene	6.44	119	26727280	98.68	ug/L	97
70) 1,2,4-Trimethylbenzene	6.49	105	26307840	96.02	ug/L #	98
71) sec-Butylbenzene	6.57	105	34216108	98.87	ug/L #	98
72) 1,3-Dichlorobenzene	6.74	146	15993589	96.47	ug/L	97
73) 1,4-Dichlorobenzene	6.80	148	10190768	91.35	ug/L	97
74) p-Isopropyltoluene	6.68	119	24938765	102.66	ug/L	99
75) 1,2-Dichlorobenzene	7.13	146	14594541	96.45	ug/L	100
76) n-Butylbenzene	7.01	91	27512939	108.40	ug/L	98
77) 1,2-Dibromo-3-chloropropan	7.77	155	577712	102.76	ug/L	
78) 1,2,4-Trichlorobenzene	8.33	180	6321380	105.27	ug/L	98
79) Naphthalene	8.60	128	9106222	103.45	ug/L	
80) Hexachloro-1,3-butadiene	8.32	225	2556473	93.17	ug/L	94
81) 1,2,3-Trichlorobenzene	8.76	180	4894825	103.47	ug/L	99
82) 1-Methylnapthalene	9.64	142	1332929	100.20	ug/L	
83) 2-Methylnapthalene	9.50	142	1119613	94.33	ug/L	

(#) = qualifier out of range (m) = manual integration  
 0601006.D 021020RC.M Mon Feb 11 16:17:02 2020

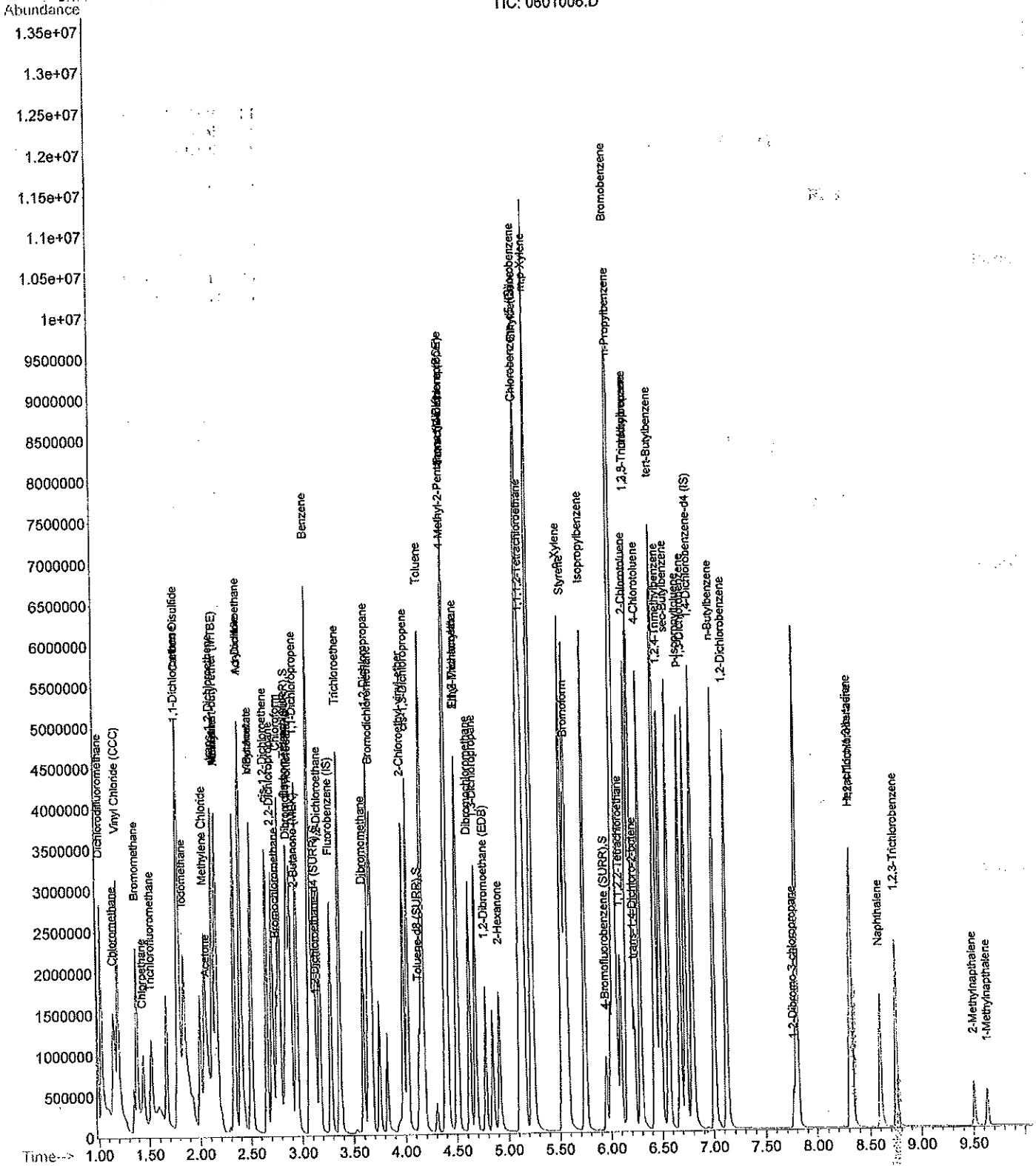
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0601006.D  
Acq On : 10 Feb 2020 4:48 pm  
Sample : 100PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 8:58 2020

Vial: 6  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0801008.D  
 Acq On : 10 Feb 2020 5:22 pm  
 Sample : 200PPB 8260 ICAL  
 Misc : A

Vial: 8  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:54 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:49:24 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	7377858	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	5402740	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.80	150	4560640	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2442925	45.61	ug/L	0.00
Spiked Amount 50.000	Range	74 - 132	Recovery =	91.22%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3291671	49.18	ug/L	0.00
Spiked Amount 50.000	Range	77 - 134	Recovery =	98.36%		
42) Toluene-d8 (SURR)	4.14	98	6412027	46.29	ug/L	0.00
Spiked Amount 50.000	Range	67 - 130	Recovery =	92.58%		
62) 4-Bromofluorobenzene (SURR)	5.95	95	2604533	46.07	ug/L	0.00
Spiked Amount 50.000	Range	65 - 133	Recovery =	92.14%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	54083759	198.71	ug/L	
3) Chloromethane	1.15	50	47770832	186.77	ug/L	97
4) Vinyl Chloride (CCC)	1.20	62	41149636	203.83	ug/L	99
5) Bromomethane	1.37	94	28555644	194.84	ug/L	
6) Chloroethane	1.44	64	14691260	182.35	ug/L	
7) Acrolein	2.16	56	13656386	187.54	ug/L	
8) Trichlorofluoromethane	1.52	101	34764595	177.82	ug/L	
9) Acetone	2.07	43	6863253	473.78	ug/L	
10) 1,1-Dichloroethene	1.78	61	31095780	174.20	ug/L	
11) Acrylonitrile	2.40	53	29580589	186.43	ug/L	
12) Iodomethane	1.85	142	33398805	196.86	ug/L	98
13) Methylene Chloride	2.05	49	31411680	179.78	ug/L	
14) Carbon Disulfide	1.79	76	67674395	178.62	ug/L	
15) trans-1,2-Dichloroethene	2.13	96	18461440	187.86	ug/L	95
16) Methyl-tert-butyl ether (M)	2.17	73	22110996	192.39	ug/L	88
17) 1,1-Dichloroethane	2.41	63	34572929m	177.35	ug/L	
18) Vinyl Acetate	2.51	43	34147078	206.82	ug/L	98
19) n-Hexane	2.16	57	20164299	178.15	ug/L	99
20) n-Butanol	2.51	57	7548752	189.35	ug/L	89
21) 2-Butanone (MEK)	2.93	43	13019730m	486.82	ug/L	
22) cis-1,2-Dichloroethene	2.66	61	24877839	175.14	ug/L	95
23) Bromochloromethane	2.76	128	8479477	190.15	ug/L #	99
24) Chloroform	2.79	83	35801650	173.26	ug/L	95
25) 2,2-Dichloropropane	2.72	77	26661825	184.54	ug/L	97
28) 1,2-Dichloroethane	3.18	62	33514937	186.84	ug/L	100
29) 1,1,1-Trichloroethane	2.90	97	28886233	179.33	ug/L	99
30) 1,1-Dichloropropene	2.95	75	29499580	195.91	ug/L	99
31) Carbon Tetrachloride	2.86	117	27918588	179.52	ug/L	98
32) Benzene	3.08	78	81557579	208.34	ug/L	97
33) Dibromomethane	3.60	93	15698273	199.99	ug/L	97
34) 1,2-Dichloropropane	3.65	63	23485011	203.74	ug/L	96
35) Trichloroethene	3.37	95	21773744	189.48	ug/L	98
36) Bromodichloromethane	3.68	83	36089470	198.06	ug/L	98
37) 2-Chloroethyl-vinyl-ether	3.99	63	25861404	1264.96	ug/L #	86
38) cis-1,3-Dichloropropene	4.03	75	36578543	222.16	ug/L	98
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	34302173	572.37	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	30369932	217.01	ug/L	93
41) 1,1,2-Trichloroethane	4.51	83	14601119	201.43	ug/L	97
43) Toluene	4.17	91	78056372	210.40	ug/L	97
44) Ethyl Methacrylate	4.50	69	18471371	263.26	ug/L	99
45) 1,3-Dichloropropane	4.69	76	27217366	206.80	ug/L	98
46) 2-Hexanone	4.91	43	23316489	568.49	ug/L	
48) Dibromochloromethane	4.63	129	24142719	202.10	ug/L	99
49) 1,2-Dibromoethane (EDB)	4.78	107	18693970	203.15	ug/L	98

(#) = qualifier out of range (m) = manual integration  
 0801008.D 021020RC.M Mon Feb 17 16:17:06 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0801008.D  
 Acq On : 10 Feb 2020 5:22 pm  
 Sample : 200PPB 8260 ICAL  
 Misc : A  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:54 2020

Vial: 8  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:49:24 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	17373546	188.72 ug/L	96
51) 1,1,1,2-Tetrachloroethane	5.16	131	19907928	193.98 ug/L #	84
52) Chlorobenzene	5.12	112	54737282	199.81 ug/L	97
53) Ethylbenzene	5.14	91	90317604	203.43 ug/L	96
54) m,p-Xylene	5.24	91	123633261	355.73 ug/L #	88
55) o-Xylene	5.53	91	72805754	221.08 ug/L	98
56) Bromoform	5.58	173	11256773	200.71 ug/L	98
57) Styrene	5.57	104	55090496	230.57 ug/L	95
58) 1,1,2,2-Tetrachloroethane	6.10	83	18682230	196.03 ug/L	100
59) trans-1,4-Dichloro-2-buten	6.23	53	5130357	190.29 ug/L	88
60) 1,2,3-Trichloropropane	6.20	75	15215784	185.74 ug/L	90
61) Isopropylbenzene	5.75	105	79197632	229.43 ug/L	97
63) Bromobenzene	6.03	156	20473053	197.83 ug/L	99
64) n-Propylbenzene	6.05	91	97419091	197.12 ug/L	99
65) 2-Chlorotoluene	6.17	91	69500807	206.87 ug/L	99
66) 4-Chlorotoluene	6.29	126	20100088	230.62 ug/L	91
68) 1,3,5-Trimethylbenzene	6.20	105	59851175	189.92 ug/L	99
69) tert-Butylbenzene	6.44	119	58011233	195.82 ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	59809905	199.36 ug/L #	97
71) sec-Butylbenzene	6.57	105	74341224	194.97 ug/L #	96
72) 1,3-Dichlorobenzene	6.74	146	34239793	188.65 ug/L	96
73) 1,4-Dichlorobenzene	6.80	148	24006833	198.16 ug/L	96
74) p-Isopropyltoluene	6.68	119	53206160	200.70 ug/L	98
75) 1,2-Dichlorobenzene	7.13	146	32229876	195.12 ug/L	98
76) n-Butylbenzene	7.01	91	60571029	215.41 ug/L	97
77) 1,2-Dibromo-3-chloropropan	7.77	155	982024	168.73 ug/L	96
78) 1,2,4-Trichlorobenzene	8.33	180	13205287	204.21 ug/L	99
79) Naphthalene	8.60	128	18954720m	203.03 ug/L	97
80) Hexachloro-1,3-butadiene	8.31	225	5280722	176.17 ug/L	97
81) 1,2,3-Trichlorobenzene	8.76	180	10394619	204.11 ug/L	98
82) 1-Methylnapthalene	9.64	142	2673834	190.98 ug/L	96
83) 2-Methylnapthalene	9.50	142	2123973	178.53 ug/L	96





Evaluate Continuing Calibration Report

100 900 900

Data File : C:\HPCHEM\1\DATA\021020\1001010.D  
 Acq On : 10 Feb 2020 5:56 pm  
 Sample : 50PPB 8260 ICV/LCS  
 Misc : A  
 MS Integration Params: EVENTS.E

Vial: 10  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 Fluorobenzene (IS)	1.000	1.000	0.0	107	0.00
2 Dichlorodifluoromethane	1.836	1.844	-0.4	99	0.00
3 Chloromethane	1.722	1.839	-6.8	108	0.00
4 Vinyl Chloride (CCC)	1.483	1.535	-3.5	105	0.00
5 Bromomethane	0.960	1.068	-11.3	113	0.00
6 Chloroethane	0.499	0.556	-11.4	109	0.00
7 Acrolein	0.491	0.445	9.4	103	0.00
8 Trichlorofluoromethane	1.272	1.288	-1.3	103	0.00
9 Acetone	0.091	0.099	-8.8	108	0.00
10 1,1-Dichloroethene	1.201	1.220	-1.6	106	0.00
11 Acrylonitrile	1.046	1.124	-7.5	107	0.00
12 Iodomethane	1.148	1.225	-6.7	107	0.00
13 Methylene Chloride	1.165	1.219	-4.6	111	0.00
14 Carbon Disulfide	2.570	2.551	0.7	104	0.00
15 trans-1,2-Dichloroethene	0.657	0.674	-2.6	109	0.00
16 Methyl-tert-butyl ether (MT)	0.731	0.842	-15.2	123	0.00
17 1,1-Dichloroethane	1.298	1.324	-2.0	104	0.00
18 Vinyl Acetate	1.155	1.241	-7.4	114	0.00
19 n-Hexane	0.743	0.751	-1.1	106	0.00
20 n-Butanol	0.263	0.288	-9.5	117	0.00
21 2-Butanone (MEK)	0.175	0.172	1.7	109	0.00
22 cis-1,2-Dichloroethene	0.957	1.025	-7.1	113	0.00
23 Bromochloromethane	0.295	0.327	-10.8	111	0.00
24 Chloroform	1.358	1.386	-2.1	107	0.00
25 2,2-Dichloropropane	0.956	0.957	-0.1	102	0.00
26 S Dibromofluoromethane (SURR)	0.355	0.368	-3.7	109	0.00
27 S 1,2-Dichloroethane-d4 (SURR)	0.443	0.491	-10.8	120	0.00
28 1,2-Dichloroethane	1.173	1.267	-8.0	112	0.00
29 1,1,1-Trichloroethane	1.063	1.027	3.4	102	0.00
30 1,1-Dichloropropene	1.009	1.020	-1.1	106	0.00
31 Carbon Tetrachloride	1.026	1.031	-0.5	103	0.00
32 Benzene	2.590	2.731	-5.4	111	0.00
33 Dibromomethane	0.515	0.569	-10.5	119	0.00
34 1,2-Dichloropropane	0.766	0.850	-11.0	112	0.00
35 Trichloroethene	0.758	0.805	-6.2	109	0.00
36 Bromodichloromethane	1.205	1.303	-8.1	112	0.00
37 2-Chloroethyl-vinyl-ether	0.190	0.188	1.1	117	0.00
38 cis-1,3-Dichloropropene	1.126	1.249	-10.9	119	0.00
39 4-Methyl-2-Pentanone (MIBK)	0.467	0.441	5.6	112	0.00
40 trans-1,3-Dichloropropene	1.049	1.065	-1.5	112	0.00
41 1,1,2-Trichloroethane	0.481	0.512	-6.4	112	0.00
42 S Toluene-d8 (SURR)	0.872	0.905	-3.8	101	0.00
43 Toluene	2.485	2.688	-8.2	114	0.00
44 Ethyl Methacrylate	0.572	0.573	-0.2	112	0.00
45 1,3-Dichloropropane	0.866	0.988	-14.1	121	0.00
46 2-Hexanone	0.302	0.313	-3.6	126	0.00
47 Chlorobenzene-d5 (IS)	1.000	1.000	0.0	105	0.00
48 Dibromochloromethane	1.122	1.218	-8.6	114	0.00
49 1,2-Dibromoethane (EDB)	0.867	0.944	-8.9	115	0.00
50 Tetrachloroethene (PCE)	0.866	0.925	-6.8	115	0.00
51 1,1,1,2-Tetrachloroethane	0.980	0.988	-0.8	108	0.00
52 Chlorobenzene	2.598	2.754	-6.0	113	0.00
53 Ethylbenzene	4.261	4.578	-7.4	112	0.00
54 m,p-Xylene	3.268	3.545	-8.5	111	0.00
55 o-Xylene	3.311	3.371	-1.8	113	0.00
56 Bromoform	0.520	0.575	-10.6	118	0.00
57 Styrene	2.357	2.697	-14.4	115	0.00
58 1,1,2,2-Tetrachloroethane	0.928	0.974	-5.0	119	0.00
59 trans-1,4-Dichloro-2-butene	0.249	0.242	2.8	100	0.00
60 1,2,3-Trichloropropane	0.748	0.685	8.4	93	0.00
61 Isopropylbenzene	3.311	3.782	-14.2	112	0.00

62	S	4-Bromofluorobenzene (SURR)	0.510	0.566	-11.0	112	0.00
63		Bromobenzene	0.976	1.056	-8.2	115	0.00
64		n-Propylbenzene	4.736	4.851	-2.4	107	0.00
65		2-Chlorotoluene	3.212	3.463	-7.8	110	0.00
66		4-Chlorotoluene	0.868	0.999	-15.1	112	0.00
67		1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	114	0.00
68		1,3,5-Trimethylbenzene	3.597	3.299	8.3	110	0.00
69		tert-Butylbenzene	3.373	3.192	5.4	111	0.00
70		1,2,4-Trimethylbenzene	3.431	3.203	6.6	112	0.00
71		sec-Butylbenzene	4.356	4.147	4.8	116	0.00
72		1,3-Dichlorobenzene	1.996	1.971	1.3	124	0.00
73		1,4-Dichlorobenzene	1.327	1.292	2.6	123	0.00
74		p-Isopropyltoluene	2.986	3.069	-2.8	117	0.00
75		1,2-Dichlorobenzene	1.874	1.832	2.2	121	0.00
76		n-Butylbenzene	3.234	3.190	1.4	111	0.00
77		1,2-Dibromo-3-chloropropane	0.064	0.074	-15.6	121	0.00
78		1,2,4-Trichlorobenzene	0.718	0.764	-6.4	120	0.00
79		Naphthalene	1.022	0.972	4.9	110	0.00
80		Hexachloro-1,3-butadiene	0.305	0.325	-6.6	126	0.00
81		1,2,3-Trichlorobenzene	0.571	0.642	-12.4	136	0.00
82		1-Methylnaphthalene	0.136	0.130	4.4	95	0.00
83		2-Methylnaphthalene	0.117	0.118	-0.9	110	0.00

(#) = Out of Range  
0101001.D 021020RC.M

SPCC's out = 0 CCC's out = 0  
Mon Feb 17 16:17:11 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\1001010.D  
 Acq On : 10 Feb 2020 5:56 pm  
 Sample : 50PPB 8260 ICV/LCS  
 Misc : A

Vial: 10  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 10:05 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	7006886	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4750449	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.80	150	4299597	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	2.87	113	2579590	51.78	ug/L	0.00
Spiked Amount : 50.000	Range	74 - 132	Recovery	=	103.56%	
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3439407	55.43	ug/L	0.00
Spiked Amount : 50.000	Range	77 - 134	Recovery	=	110.86%	
42) Toluene-d8 (SURR)	4.14	98	6343493	51.90	ug/L	0.00
Spiked Amount : 50.000	Range	67 - 130	Recovery	=	103.80%	
62) 4-Bromofluorobenzene (SURR)	5.96	95	2686582	55.43	ug/L	0.00
Spiked Amount : 50.000	Range	65 - 133	Recovery	=	110.86%	
Target Compounds						
2) Dichlorodifluoromethane	1.02	85	12919977	50.21	ug/L	
3) Chloromethane	1.15	50	12886727	53.41	ug/L	98
4) Vinyl Chloride (CCC)	1.20	62	10752671	51.76	ug/L	99
5) Bromomethane	1.38	94	7483169	55.61	ug/L	
6) Chloroethane	1.45	64	3894111	55.67	ug/L	97
7) Acrolein	2.16	56	3119507	45.37	ug/L	
8) Trichlorofluoromethane	1.53	101	9024863	50.63	ug/L	
9) Acetone	2.07	43	1732081	135.30	ug/L #	94
10) 1,1-Dichloroethene	1.77	61	8549703	50.78	ug/L	
11) Acrylonitrile	2.40	53	7876882	53.72	ug/L #	89
12) Iodomethane	1.85	142	8581003	53.32	ug/L	100
13) Methylene Chloride	2.05	49	8544785	52.32	ug/L #	78
14) Carbon Disulfide	1.80	76	17876514	49.64	ug/L	95
15) trans-1,2-Dichloroethene	2.13	96	4724995	51.34	ug/L	96
16) Methyl-tert-butyl ether (M)	2.17	73	5898318	57.61	ug/L	87
17) 1,1-Dichloroethane	2.41	63	9278966	51.02	ug/L	97
18) Vinyl Acetate	2.51	43	8694643	53.71	ug/L	99
19) n-Hexane	2.16	57	5263091	50.56	ug/L	93
20) n-Butanol	2.51	57	2014974	54.73	ug/L	95
21) 2-Butanone (MEK)	2.94	43	3019117	123.26	ug/L	97
22) cis-1,2-Dichloroethene	2.66	61	7184983	53.58	ug/L	98
23) Bromochloromethane	2.76	128	2290257	55.35	ug/L #	99
24) Chloroform	2.79	83	9714697	51.04	ug/L	93
25) 2,2-Dichloropropane	2.72	77	6705946	50.06	ug/L	98
28) 1,2-Dichloroethane	3.18	62	8874448	54.00	ug/L	99
29) 1,1,1-Trichloroethane	2.89	97	7196257	48.29	ug/L	99
30) 1,1-Dichloropropene	2.95	75	7144442	50.55	ug/L	99
31) Carbon Tetrachloride	2.86	117	7223070	50.24	ug/L	100
32) Benzene	3.08	78	19133849	52.71	ug/L	99
33) Dibromomethane	3.60	93	3989684	55.29	ug/L	97
34) 1,2-Dichloropropane	3.65	63	5959272	55.48	ug/L	96
35) Trichloroethene	3.37	95	5642397	53.11	ug/L	99
36) Bromodichloromethane	3.68	83	9132809	54.08	ug/L	100
37) 2-Chloroethyl-vinyl-ether	3.99	63	5268425	198.01	ug/L	95
38) cis-1,3-Dichloropropene	4.03	75	8749666	55.45	ug/L	95
39) 4-Methyl-2-Pentanone (MIBK)	4.38	43	7727955	118.16	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	7465672	50.81	ug/L	97
41) 1,1,2-Trichloroethane	4.51	83	3590751	53.23	ug/L	94
43) Toluene	4.17	91	18833842	54.07	ug/L	98
44) Ethyl Methacrylate	4.50	69	4015406	50.07	ug/L	94
45) 1,3-Dichloropropane	4.69	76	6923638	57.03	ug/L	99
46) 2-Hexanone	4.92	43	5489284m	129.62	ug/L	
48) Dibromochloromethane	4.63	129	5786260	54.29	ug/L	99
49) 1,2-Dibromoethane (EDB)	4.78	107	4482373	54.38	ug/L	100

(#) = qualifier out of range (m) = manual integration  
 1001010.D 021020RC.M Mon Feb 17 16:17:18 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\1001010.D  
 Acq On : 10 Feb 2020 5:56 pm  
 Sample : 50PPB 8260 ICV/LCS  
 Misc : A

Vial: 10  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 10:05 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	4395968	53.44	ug/L	96
51) 1,1,1,2-Tetrachloroethane	5.16	131	4692509	50.41	ug/L	98
52) Chlorobenzene	5.12	112	13082305	53.00	ug/L	98
53) Ethylbenzene	5.14	91	21748789	53.73	ug/L	100
54) m,p-Xylene	5.23	91	33679321	108.47	ug/L	99
55) o-Xylene	5.53	91	16013908	50.91	ug/L	97
56) Bromoform	5.58	173	2731282	55.23	ug/L	99
57) Styrene	5.57	104	12813791	57.22	ug/L	94
58) 1,1,2,2-Tetrachloroethane	6.10	83	4624818	52.47	ug/L	98
59) trans-1,4-Dichloro-2-buten	6.23	53	1149138	48.48	ug/L	91
60) 1,2,3-Trichloropropane	6.20	75	3254688	45.81	ug/L	79
61) Isopropylbenzene	5.75	105	17967925	57.12	ug/L	99
63) Bromobenzene	6.03	156	5017178	54.13	ug/L	99
64) n-Propylbenzene	6.05	91	23042645	51.21	ug/L	99
65) 2-Chlorotoluene	6.17	91	16449734	53.91	ug/L	98
66) 4-Chlorotoluene	6.29	126	4745359	57.55	ug/L	92
68) 1,3,5-Trimethylbenzene	6.20	105	14185130	45.86	ug/L	98
69) tert-Butylbenzene	6.44	119	13723526	47.31	ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	13772737	46.68	ug/L #	95
71) sec-Butylbenzene	6.57	105	17828686	47.60	ug/L #	98
72) 1,3-Dichlorobenzene	6.74	146	8474576	49.38	ug/L	97
73) 1,4-Dichlorobenzene	6.80	148	5556497	48.69	ug/L	93
74) p-Isopropyltoluene	6.68	119	13197167	51.39	ug/L	99
75) 1,2-Dichlorobenzene	7.13	146	7878908	48.90	ug/L	99
76) n-Butylbenzene	7.01	91	13716856	49.33	ug/L	98
77) 1,2-Dibromo-3-chloropropan	7.77	155	318378	58.28	ug/L	98
78) 1,2,4-Trichlorobenzene	8.33	180	3284379	53.17	ug/L	97
79) Naphthalene	8.60	128	4178011	47.55	ug/L	93
80) Hexachloro-1,3-butadiene	8.32	225	1396298	53.31	ug/L	93
81) 1,2,3-Trichlorobenzene	8.76	180	2758486	56.16	ug/L	99
82) 1-Methylnaphthalene	9.63	142	560699	47.85	ug/L	99
83) 2-Methylnaphthalene	9.51	142	508357	50.66	ug/L	99

(#) = qualifier out of range (m) = manual integration  
 1001010.D 021020RC.M Mon Feb 17 16:17:18 2020



Injection Log

Directory: C:\HPCHEM\1\DATA\011820C

011820RC - VOC1

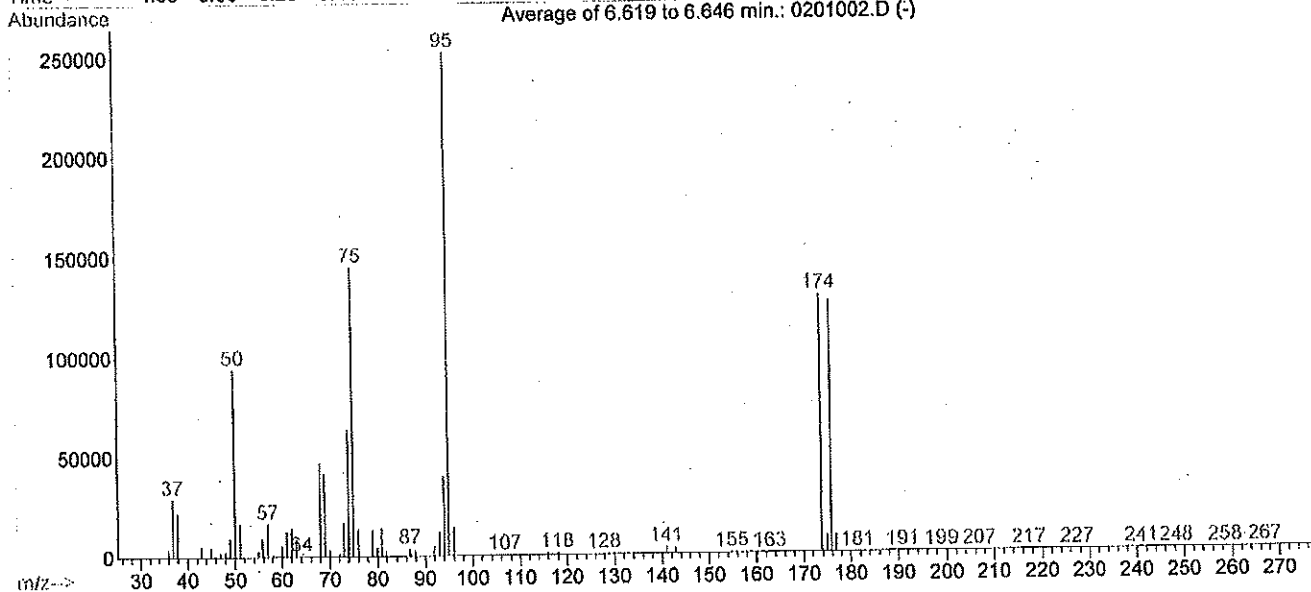
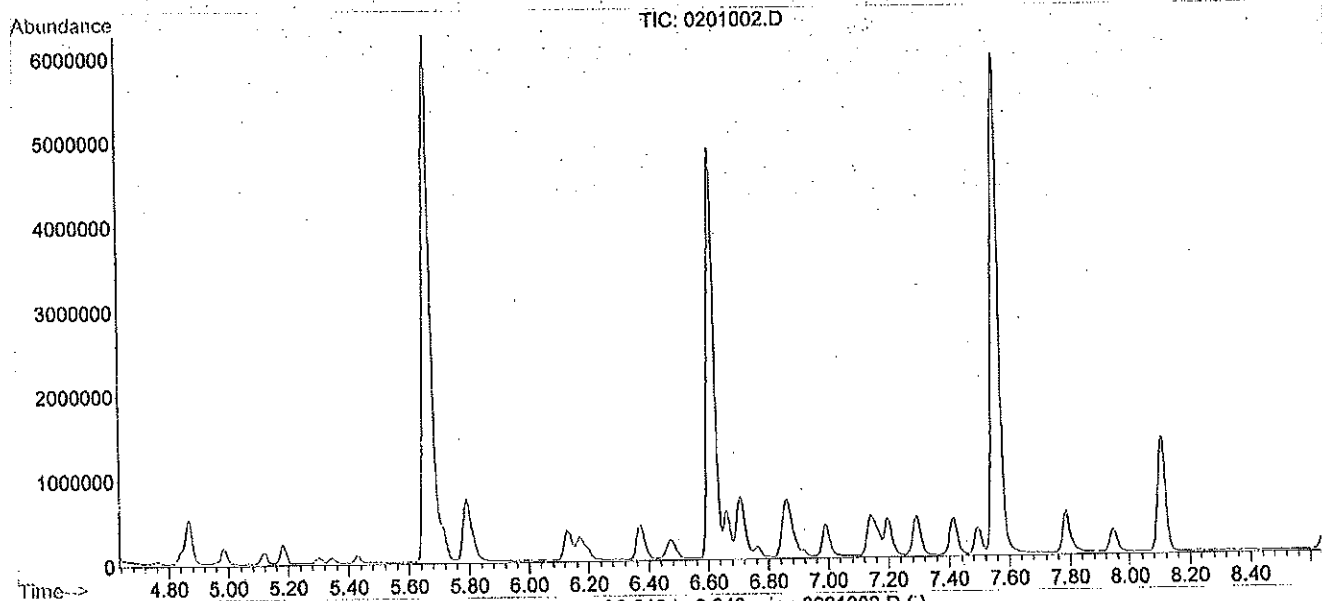
8260 Curve

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	1ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 07:59
2	2	0201002.D	1.	5ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 08:16
3	3	0301003.D	1.	10ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 08:32
4	4	0401004.D	1.	20ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 08:49
5	5	0501005.D	1.	50ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 09:06
6	6	0601006.D	1.	100ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 09:22
7	7	0701007.D	1.	200ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 09:39
8	8	0801008.D	1.	50ppb ICV 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 09:56
9	9	0901009.D	1.	MB	092319 VOC1 curve, 8260 ical	18 Jan 2020 10:12
10	10	1001010.D	1.	782 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 10:29
11	11	1101011.D	1.	783 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 10:45
12	12	1201012.D	1.	784 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 11:02
13	13	1301013.D	1.	785 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 11:19
14	14	1401014.D	1.	786 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 11:36
15	15	1501015.D	1.	787 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 11:52
16	16	1601016.D	1.	788 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 12:09
17	17	1701017.D	1.	789 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 12:26
18	18	1801018.D	1.	790 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 12:42
19	19	1901019.D	1.	791 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 12:59
20	20	2001020.D	1.	792 dup rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 13:16
21	21	2101021.D	1.	776 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 13:32
22	22	2201022.D	1.	777 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 13:49
23	23	2301023.D	1.	778 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 14:06
24	24	2401024.D	1.	779 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 14:22
25	25	2501025.D	1.	780 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 14:39
26	26	2601026.D	1.	680	092319 VOC1 curve, 8260 ical	18 Jan 2020 14:56
27	27	2701027.D	1.	681	092319 VOC1 curve, 8260 ical	18 Jan 2020 15:12
28	28	2801028.D	1.	682	092319 VOC1 curve, 8260 ical	18 Jan 2020 15:29
29	29	2901029.D	1.	683	092319 VOC1 curve, 8260 ical	18 Jan 2020 15:46

BFB

Data File : C:\HPCHEM\1\DATA\011820C\0201002.D  
Acq On : 18 Jan 2020 8:16 am  
Sample : 5ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration

Vial: 2  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00



Spectrum Information: Average of 6.619 to 6.646 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	37.3	94115	PASS
75	95	30	60	57.5	144894	PASS
95	95	100	100	100.0	252192	PASS
96	95	5	9	5.6	14228	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	51.1	128902	PASS
175	174	5	9	6.5	8407	PASS
176	174	95	101	97.7	125994	PASS
177	176	4	9	6.7	8460	PASS



Response Factor Report VOC 1

Method : C:\NPHCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration

Calibration Files  
 20 =0401004.D 50 =0501005.D 100 =0601006.D  
 200 =0701007.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
-----ISTD-----								
1) Fluorobenzene (IS)								
2) Dichlorodifluoromet	1.879	2.367	2.256	1.980	1.796	1.627	1.984	14.16
3) Chloromethane	1.134	1.229	1.223	1.227	1.208	1.185	1.201	3.07
4) m Vinyl Chloride*	1.164	1.612	1.537	1.423	1.253	1.242	1.372	13.10
5) Bromomethane	1.584	1.705	1.710	1.430	1.730	1.646	1.634	6.95
6) Chloroethane	0.974	1.079	0.998	0.970	0.731	0.964	0.953	12.23
7) Acrolein	0.993	1.227	1.222	1.142	1.186	1.080	1.142	7.98
8) Trichlorofluorometh	3.968	4.552	4.365	3.466	4.338	3.962	4.108	9.55
9) Acetone	0.335	0.338	0.299	0.279	0.305	0.259	0.303	10.14
10) m 1,1-Dichloroethene*	3.014	3.216	3.428	2.936	3.338	3.085	3.170	6.04
11) Acrylonitrile	3.290	3.605	3.594	3.831	3.590	3.386	3.549	5.35
12) Iodomethane	1.089	1.442	1.570	1.579	1.268	1.234	1.364	14.53
13) Methylene Chloride	1.360	1.388	1.375	1.236	1.390	1.251	1.333	5.30
14) Carbon Disulfide	1.891	2.193	2.300	2.194	2.128	1.923	2.105	7.75
15) m trans-1,2-Dichloroe	1.111	1.315	1.299	1.280	1.236	1.181	1.237	6.36
16) m Methyl-tert-butyl e	2.659	3.064	2.963	2.756	3.030	2.753	2.871	5.89
17) m 1,1-Dichloroethane*	3.474	3.709	3.696	3.546	4.071	3.497	3.665	6.06
18) Vinyl Acetate	2.052	2.616	2.020	2.274	2.177	2.059	2.200	10.23
19) N-Hexane	2.066	2.320	2.325	2.202	2.277	1.950	2.190	6.95
20) N-Butanol	1.074	1.167	1.103	1.059	1.209	1.139	1.125	5.09
21) 2-Butanone (MEK)	0.329	0.336	0.308	0.285	0.356	0.320	0.322	7.52
22) m cis-1,2-Dichloroeth	2.020	2.339	2.300	2.324	2.175	2.234	2.232	5.40
23) Bromochloromethane	0.308	0.365	0.348	0.368	0.326	0.322	0.339	7.22
24) m Chloroform*	2.684	3.089	3.064	2.988	3.205	2.804	2.972	6.51
25) 2-2-Dichloropropane	2.811	3.227	3.207	3.174	3.025	2.952	3.066	5.40
26) s Dibromofluoromethan	0.422	0.399	0.336	0.303	0.391	0.372	0.371	11.82
27) s 1,2-Dichloroethane-	0.580	0.572	0.452	0.419	0.538	0.546	0.518	12.84
28) 1,2-Dichloroethane	2.217	2.569	2.427	2.250	2.724	2.289	2.413	8.33
29) m 1,1,1-Trichloroetha	2.823	3.251	3.302	3.347	3.130	2.759	3.102	8.13
30) 1,1-Dichloropropene	1.803	2.102	2.162	2.218	1.848	1.775	1.985	9.96
31) Carbon Tetrachlorid	2.525	2.925	2.974	3.068	2.844	2.617	2.826	7.51
32) m Benzene*	3.180	3.777	4.049	3.934	3.521	3.195	3.609	10.30
33) Dibromomethane	0.673	0.755	0.727	0.682	0.758	0.656	0.708	6.24
34) 1,2-Dichloropropane	0.948	1.058	1.046	1.033	0.979	0.880	0.990	6.93
35) m Trichloroethene*	1.240	1.418	1.415	1.448	1.377	1.196	1.349	7.77
36) Bromodichloromethan	1.856	2.175	2.167	2.136	2.063	1.932	2.055	6.46
37) 2-Chloroethyl-vinyl	0.226	0.268	0.269	0.209	0.256	0.257	0.248	9.86
38) cis-1,3-Dichloropro	1.443	1.713	1.683	1.696	1.494	1.472	1.583	7.96
39) 4-Methyl-2-Pentanon	0.672	0.847	0.775	0.702	0.671	0.684	0.725	9.82
40) trans-1,3-Dichlorop	1.384	1.637	1.607	1.564	1.455	1.384	1.505	7.47
41) 1,1,2-Trichloroetha	0.528	0.634	0.575	0.553	0.592	0.524	0.568	7.36
42) s Toluene-d8 (SURR)	1.033	1.029	0.902	0.925	0.987	0.901	0.963	6.36
43) m Toluene*	3.735	4.466	4.700	4.505	4.369	3.880	4.276	8.91
44) Ethyl Methacrylate	0.116	0.145	0.152	0.130	0.141	0.130	0.136	9.56
45) 1,3-Dichloropropane	1.121	1.316	1.249	1.174	1.225	1.051	1.189	7.95
46) 2-Hexanone	0.457	0.566	0.545	0.485	0.452	0.447	0.492	10.42
-----ISTD-----								
47) Chlorobenzene-d5 (IS)								
48) Dibromochloromethan	1.120	1.318	1.259	1.109	1.332	1.308	1.241	8.16
49) 1,2-Dibromoethane (	0.884	0.998	0.918	0.815	1.023	0.973	0.935	8.37
50) Tetrachloroethene	0.936	1.113	1.148	1.126	1.189	1.132	1.107	7.95
51) m 1,1,1,2-Tetrachloro	1.066	1.249	1.214	1.137	1.220	1.265	1.192	6.37
52) m Chlorobenzene*	2.870	3.493	3.681	3.506	3.756	3.359	3.444	9.15
53) m Ethyl Benzene*	6.718	8.335	7.633	6.234	8.710	7.853	7.580	12.49
54) m,p-Xylene	5.216	6.689	6.094	4.979	6.871	6.472	6.053	13.02
55) m o-Xylene*	1.766	2.287	2.259	2.158	2.176	2.166	2.136	8.83
56) Bromoform	0.470	0.585	0.556	0.485	0.630	0.550	0.546	11.10
57) Styrene	2.675	3.422	3.455	3.195	3.271	3.219	3.206	8.76
58) 1,1,2,2-Tetrachloro	0.609	0.696	0.635	0.537	0.760	0.719	0.660	12.34
59) trans-1,4-Dichloro-	0.374	0.476	0.447	0.363	0.467	0.469	0.432	11.72

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration

Calibration Files  
 20 =0401004.D 50 =0501005.D 100 =0601006.D  
 200 =0701007.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
60) 1,2,3-Trichloroprop	1.315	1.614	1.427	1.315	1.112	1.544	1.388	13.03
61) Isopropylbenzene	6.322	8.013	6.762	6.025	7.495	7.159	6.963	10.66
62) s 4-Bromofluorobenzen	0.688	0.691	0.602	0.547	0.697	0.720	0.658	10.29
63) Bromobenzene	0.852	1.081	1.082	1.062	0.973	1.066	1.020	8.96
64) m N-Propylbenzene*	0.859	1.094	1.071	0.892	1.037	1.037	0.998	E1 9.83
65) 2-Chlorotoluene	5.734	7.086	7.110	5.940	6.858	6.802	6.588	9.08
66) 4-Chlorotoluene	1.010	1.314	1.271	1.189	1.272	1.193	1.208	9.00
-----ISTD-----								
67) 1,4-Dichlorobenzene (								
68) 1,3,5-Trimethylbenz	1.345	1.624	1.603	1.436	1.677	1.474	1.527	E1 8.39
69) tert-butylbenzene	1.167	1.404	1.385	1.432	1.520	1.244	1.359	E1 9.52
70) 1,2,4-Trimethylbenz	1.287	1.627	1.573	1.395	1.689	1.405	1.496	E1 10.47
71) sec-Butylbenzene	1.809	2.195	2.210	1.560	2.261	1.970	2.001	E1 13.79
72) 1,3-Dichlorobenzene	4.274	5.085	4.899	5.072	5.626	4.619	4.929	9.32
73) 1,4-Dichlorobenzene	2.624	3.182	3.030	3.095	3.425	3.337	3.116	9.06
74) p-Isopropyltoluene	1.305	1.609	1.640	1.360	1.640	1.416	1.495	E1 10.18
75) 1,2-Dichlorobenzene	3.817	4.345	4.131	4.280	4.880	3.859	4.219	9.21
76) N-Butylbenzene	1.715	2.063	1.990	1.489	2.102	2.035	1.899	E1 12.83
77) 1,2-Dibromo-3-chlor	0.190	0.229	0.193	0.187	0.262	0.203	0.211	14.00
78) 1,2,4-Trichlorobenz	2.677	3.153	2.852	3.060	3.575	2.772	3.015	10.84
79) Naphthalene	4.001	5.073	4.505	4.513	4.562	4.165	4.470	8.31
80) Hexachloro-1,3-buta	1.633	1.901	1.769	1.804	2.071	1.782	1.827	8.07
81) 1,2,3-Trichlorobenz	2.205	2.618	2.267	2.370	2.778	2.462	2.450	8.86
82) 1-Methylnaphthalene	1.538	2.022	1.864	1.794	1.607	1.330	1.692	14.74
83) 2-Methylnaphthalene	1.663	2.449	2.261	2.275	2.344	2.140	2.189	12.65

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0101001.D  
 Acq On : 18 Jan 2020 7:59 am  
 Sample : 1ppb 8260 ical  
 Misc : 092319 VOCl curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 9:09 2020

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev.(Min)
1) Fluorobenzene (IS)	3.62	96	441610	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	328376	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	126468	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev.(Min)
26) Dibromofluoromethane (SURR)	3.17	113	186823	57.07	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	114.14%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	261121	57.10	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	114.20%
42) Toluene-d8 (SURR)	4.57	98	454672	53.46	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	106.92%
62) 4-Bromofluorobenzene (SURR)	6.61	95	218056	50.49	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	100.98%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	20556	1.17	ppb	84
3) Chloromethane	1.43	50	53023	5.00	ppb #	53
4) Vinyl Chloride*	1.46	62	16893	1.39	ppb #	68
5) Bromomethane	1.63	94	26589	1.84	ppb #	74
6) Chloroethane	1.69	64	8546	1.02	ppb #	45
7) Acrolein	2.40	56	15908	1.58	ppb #	31
8) Trichlorofluoromethane	1.77	101	45248	1.25	ppb	94
9) Acetone	2.32	43	98422	36.82	ppb #	84
10) 1,1-Dichloroethene*	2.02	61	37178	1.33	ppb	93
11) Acrylonitrile	2.67	53	42367	1.35	ppb	87
12) Iodomethane	2.11	142	14180m	1.18	ppb	
13) Methylene Chloride	2.30	84	68410	5.81	ppb	89
14) Carbon Disulfide	2.05	76	28939	1.56	ppb #	100
15) trans-1,2-Dichloroethene*	2.37	96	11601	1.06	ppb #	65
16) Methyl-tert-butyl ether* (	2.41	73	32635	1.29	ppb	97
17) 1,1-Dichloroethane*	2.68	63	39081	1.21	ppb #	71
18) Vinyl Acetate	2.78	43	43548	2.24	ppb	100
19) N-Hexane	2.40	57	24925	1.29	ppb #	86
20) N-Butanol	2.77	57	12436	1.25	ppb #	94
21) 2-Butanone (MEK)	3.24	43	18748	6.59	ppb #	84
22) cis-1,2-Dichloroethene*	2.95	61	26237	1.33	ppb	92
23) Bromochloromethane	3.05	128	3798m	1.27	ppb	
24) Chloroform*	3.08	83	35428	1.35	ppb	
25) 2-2-Dichloropropane	3.01	77	31935	1.18	ppb	99
28) 1,2-Dichloroethane	3.51	62	28017	1.31	ppb #	96
29) 1,1,1-Trichloroethane*	3.20	97	31826	1.16	ppb	95
30) 1,1-Dichloropropene	3.26	75	18410	1.05	ppb	89
31) Carbon Tetrachloride	3.17	117	27280	1.09	ppb	97
32) Benzene*	3.39	78	38490	1.21	ppb	92
33) Dibromomethane	3.97	93	8504	1.36	ppb	91
34) 1,2-Dichloropropane	4.03	63	11094	1.27	ppb #	89
35) Trichloroethene*	3.72	95	16120	1.35	ppb	88
36) Bromodichloromethane	4.05	83	21868	1.21	ppb	96
37) 2-Chloroethyl-vinyl ether	4.38	63	10526	4.81	ppb	96
38) cis-1,3-Dichloropropene	4.44	75	15159	1.08	ppb	88
39) 4-Methyl-2-Pentanone (MIBK)	4.84	43	17815	2.78	ppb #	93
40) trans-1,3-Dichloropene	4.87	75	14548	1.09	ppb	93
41) 1,1,2-Trichloroethane	4.99	83	5528	1.10	ppb	95
43) Toluene*	4.60	91	61589	1.63	ppb	99
44) Ethyl Methacrylate	4.96	69	1355m	1.13	ppb	
45) 1,3-Dichloropropane	5.18	76	12225	1.16	ppb	86
46) 2-Hexanone	5.43	43	13511	3.11	ppb	89
48) Dibromochloromethane	5.12	129	8870m	1.09	ppb	
49) 1,2-Dibromoethane (EDB)	5.30	107	6582	1.07	ppb #	75

(#) = qualifier out of range (m) = manual integration  
 0101001.D 011820RC.M Mon Jan 20 09:10:17 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0101001.D  
 Acq On : 18 Jan 2020 7:59 am  
 Sample : 1ppb 8260 ical  
 Misc : 092319 VOCl curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 9:09 2020

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.86	166	7337	1.01	ppb	# 71
51) 1,1,1,2-Tetrachloroethane*	5.71	131	10688	1.37	ppb	# 60
52) Chlorobenzene*	5.67	112	25613	1.13	ppb	83
53) Ethyl Benzene*	5.68	91	67989	1.37	ppb	# 78
54) m,p-Xylene	5.79	91	115332	2.90	ppb	94
55) o-Xylene*	6.13	106	16250	1.16	ppb	94
56) Bromoform	6.20	173	3591m	1.00	ppb	
57) Styrene	6.17	104	22525m	1.07	ppb	
58) 1,1,2,2-Tetrachloroethane	6.77	85	4594	1.06	ppb	# 90
59) trans-1,4-Dichloro-2-buten	6.91	53	3265m	1.15	ppb	
60) 1,2,3-Trichloropropane	6.88	75	10539	1.16	ppb	# 84
61) Isopropylbenzene	6.37	105	46766m	1.02	ppb	
63) Bromobenzene	6.71	156	7573	1.13	ppb	94
64) N-Propylbenzene*	6.71	91	68534m	1.05	ppb	
65) 2-Chlorotoluene	6.85	91	43476m	1.00	ppb	
66) 4-Chlorotoluene	6.99	126	7945m	1.00	ppb	
68) 1,3,5-Trimethylbenzene	6.86	105	39853	1.03	ppb	98
69) tert-butylbenzene	7.14	119	37862m	1.10	ppb	
70) 1,2,4-Trimethylbenzene	7.20	105	42694	1.13	ppb	94
71) sec-Butylbenzene	7.29	105	52374	1.03	ppb	# 93
72) 1,3-Dichlorobenzene	7.49	146	12980m	1.04	ppb	
73) 1,4-Dichlorobenzene	7.50	148	8493	1.08	ppb	88
74) p-Isopropyltoluene	7.42	119	40035m	1.06	ppb	
75) 1,2-Dichlorobenzene	7.94	146	11373	1.07	ppb	93
76) N-Butylbenzene	7.79	91	52144m	1.09	ppb	
77) 1,2-Dibromo-3-chloropropan	8.71	155	627m	1.18	ppb	
78) 1,2,4-Trichlorobenzene	9.30	180	10161	1.33	ppb	80
79) Naphthalene	9.61	128	13790m	1.22	ppb	
80) Hexachloro-1,3-butadiene	9.26	225	5590	1.21	ppb	92
81) 1,2,3-Trichlorobenzene	9.78	180	8196	1.32	ppb	87
82) 1-Methylnaphthalene	10.77	142	5583	1.30	ppb	89
83) 2-Methylnaphthalene	10.62	142	5987	1.08	ppb	92

(#) = qualifier out of range (m) = manual integration  
 0101001.D 011820RC.M Mon Jan 20 09:10:17 2020

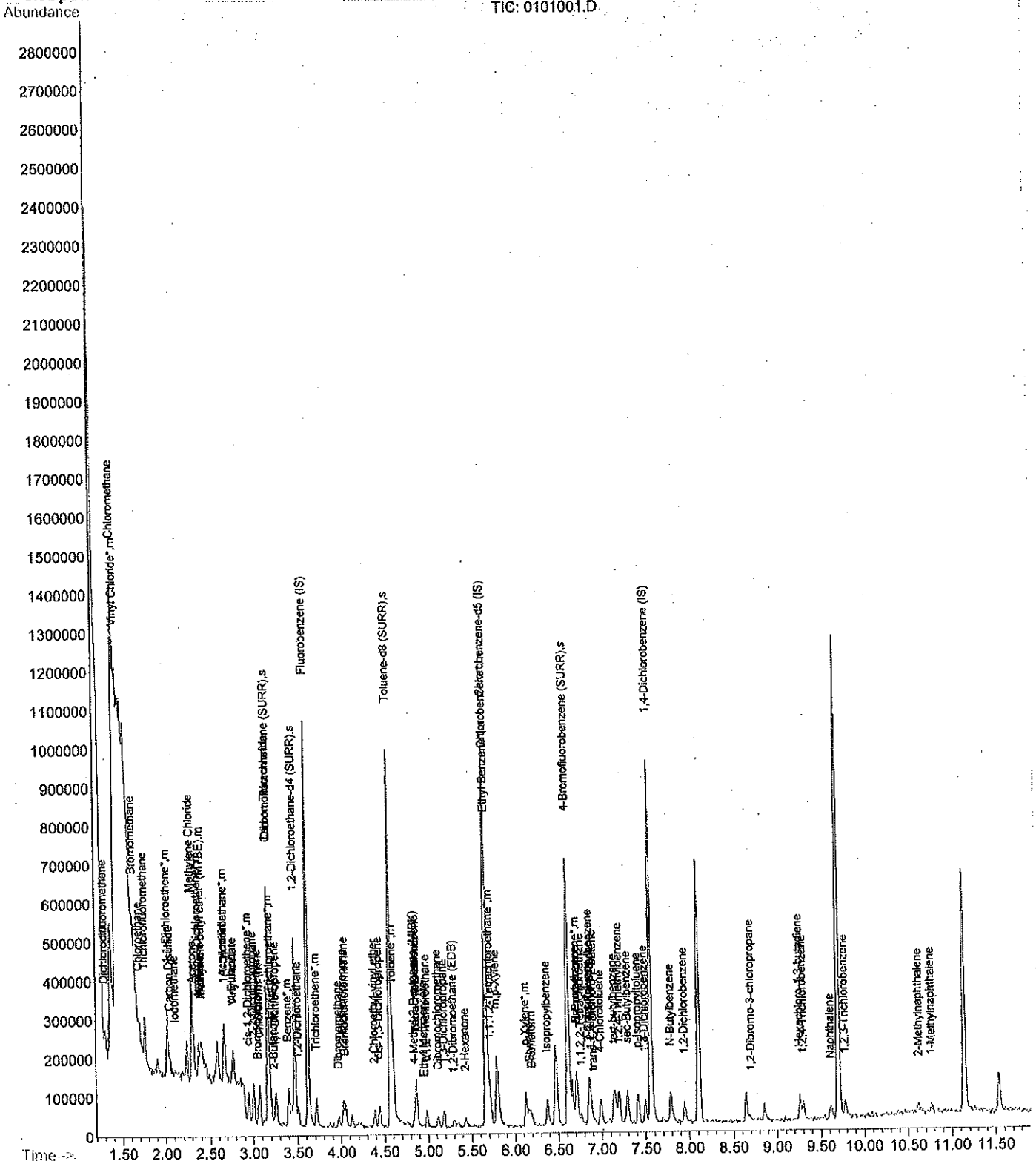
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0101001.D  
Acq On : 18 Jan 2020 7:59 am  
Sample : lppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 9:09 2020

Vial: 1  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0201002.D  
 Acq On : 18 Jan 2020 8:16 am  
 Sample : 5ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:18 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 122319RC.RES

Quant Method : C:\HPCHEM\MSEXEX\122319RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Tue Dec 24 10:43:39 2019  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	460024m	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	327928m	50.00	ppb	0.01
67) 1,4-Dichlorobenzene (IS)	7.56	152	125153m	50.00	ppb	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	187556m	72.01	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	144.02%#
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	258400m	88.89	ppb	0.01
Spiked Amount	50.000	Range	54 - 138	Recovery	=	177.78%#
42) Toluene-d8 (SURR)	4.57	98	473812m	57.87	ppb	0.01
Spiked Amount	50.000	Range	61 - 127	Recovery	=	115.74%
62) 4-Bromofluorobenzene (SURR)	6.61	95	228593m	66.29	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	132.58%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	86203	7.28	ppb	95
3) Chloromethane	1.42	50	57980	6.54	ppb	# 86
4) Vinyl Chloride*	1.46	62	60141	7.08	ppb	94
5) Bromomethane	1.63	94	113033	24.39	ppb	82
6) Chloroethane	1.69	64	35111	5.40	ppb	66
7) Acrolein	2.40	56	56911	7.71	ppb	# 76
8) Trichlorofluoromethane	1.76	101	208248	11.02	ppb	100
9) Acetone	2.32	43	76625	55.66	ppb	90
10) 1,1-Dichloroethene*	2.02	61	160220	10.69	ppb	95
11) Acrylonitrile	2.66	53	172332	10.63	ppb	98
12) Iodomethane	2.10	142	30887m	4.68	ppb	
13) Methylene Chloride	2.30	84	106716	12.90	ppb	86
14) Carbon Disulfide	2.05	76	102150	8.55	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	59322	9.54	ppb	93
16) Methyl-tert-butyl ether* (	2.42	73	145456	11.07	ppb	# 100
17) 1,1-Dichloroethane*	2.68	63	195426	11.41	ppb	95
18) Vinyl Acetate	2.78	43	154493	14.65	ppb	99
19) N-Hexane	2.40	57	109285	7.99	ppb	99
20) N-Butanol	2.77	57	58022	10.72	ppb	# 86
21) 2-Butanone (MEK)	3.24	43	42702	19.01	ppb	# 90
22) cis-1,2-Dichloroethene*	2.95	61	104391	6.83	ppb	92
23) Bromochloromethane	3.05	128	15656	6.32	ppb	60
24) Chloroform*	3.07	83	153826	8.05	ppb	99
25) 2-2-Dichloropropane	3.00	77	145224	7.85	ppb	96
28) 1,2-Dichloroethane	3.51	62	130772	10.29	ppb	91
29) 1,1,1-Trichloroethane*	3.20	97	150231	8.58	ppb	97
30) 1,1-Dichloropropene	3.26	75	88708	6.26	ppb	97
31) Carbon Tetrachloride	3.16	117	136532	9.58	ppb	98
32) Benzene*	3.40	78	169003	5.38	ppb	# 86
33) Dibromomethane	3.97	93	36389	7.54	ppb	97
34) 1,2-Dichloropropane	4.03	63	46972m	5.16	ppb	
35) Trichloroethene*	3.71	95	66095	7.31	ppb	92
36) Bromodichloromethane	4.05	83	99036	8.13	ppb	100
37) 2-Chloroethyl-vinyl ether	4.39	63	59197	30.06	ppb	96
38) cis-1,3-Dichloropropene	4.44	75	71701	5.85	ppb	# 53
39) 4-Methyl-2-Pentanone (MIBK	4.84	43	80578	14.29	ppb	# 97
40) trans-1,3-Dichloropene	4.87	75	69842	7.35	ppb	# 69
41) 1,1,2-Trichloroethane	4.98	83	28427	6.36	ppb	95
43) Toluene*	4.60	91	209702	6.37	ppb	# 94
44) Ethyl Methacrylate	4.96	69	4761m	4.08	ppb	
45) 1,3-Dichloropropane	5.18	76	58803	6.45	ppb	96
46) 2-Hexanone	5.43	43	54294	14.05	ppb	# 87
48) Dibromochloromethane	5.12	129	43692	7.27	ppb	98
49) 1,2-Dibromoethane (EDB)	5.30	107	33555	6.19	ppb	# 94

(#) = qualifier out of range (m) = manual integration  
 0201002.D 011820RC.M Mon Jan 20 09:10:21 2020

GARY

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0201002.D  
 Acq On : 18 Jan 2020 8:16 am  
 Sample : 5ppb 8260 ical  
 Misc : 092319 VOCi curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:18 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 122319RC.RES

Quant Method : C:\HPCHEM\MSEXEN\122319RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Tue Dec 24 10:43:39 2019  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	39005	6.45	ppb	93
51) 1,1,1,2-Tetrachloroethane*	5.71	131	40013	6.42	ppb #	52
52) Chlorobenzene*	5.68	112	123163m	5.88	ppb	
53) Ethyl Benzene*	5.68	91	285628	6.32	ppb #	78
54) m,p-Xylene	5.79	91	450611	12.95	ppb	94
55) o-Xylene*	6.13	106	71371m	5.20	ppb	
56) Bromoform	6.19	173	20670	8.72	ppb #	92
57) Styrene	6.17	104	107251m	5.28	ppb	
58) 1,1,2,2-Tetrachloroethane	6.76	85	24922	6.16	ppb	87
59) trans-1,4-Dichloro-2-buten	6.92	53	15310	8.74	ppb	94
60) 1,2,3-Trichloropropane	6.89	75	36474m	4.67	ppb	
61) Isopropylbenzene	6.37	105	245778m	5.93	ppb	
63) Bromobenzene	6.71	156	31922m	5.55	ppb	
64) N-Propylbenzene*	6.71	91	340042m	6.01	ppb	94
65) 2-Chlorotoluene	6.86	91	224894	6.49	ppb	
66) 4-Chlorotoluene	7.00	126	41715m	5.86	ppb	
68) 1,3,5-Trimethylbenzene	6.87	105	209941	6.86	ppb	93
69) tert-butylbenzene	7.14	119	190185m	6.75	ppb	
70) 1,2,4-Trimethylbenzene	7.19	105	211440m	6.65	ppb	
71) sec-Butylbenzene	7.30	105	283021m	6.62	ppb	
72) 1,3-Dichlorobenzene	7.50	146	70407m	6.53	ppb	
73) 1,4-Dichlorobenzene	7.57	148	52870m	7.84	ppb	
74) p-Isopropyltoluene	7.42	119	205256m	6.68	ppb	
75) 1,2-Dichlorobenzene	7.94	146	61076m	6.74	ppb	
76) N-Butylbenzene	7.79	91	263021m	6.68	ppb	
77) 1,2-Dibromo-3-chloropropan	8.66	155	2284m	5.89	ppb	
78) 1,2,4-Trichlorobenzene	9.30	180	44737m	8.21	ppb	
79) Naphthalene	9.61	128	57099m	5.60	ppb	
80) Hexachloro-1,3-butadiene	9.27	225	25924m	8.56	ppb	
81) 1,2,3-Trichlorobenzene	9.79	180	34766	7.99	ppb	97
82) 1-Methylnaphthalene	10.76	142	20107m	5.13	ppb	
83) 2-Methylnaphthalene	10.62	142	19336m	4.06	ppb	

(#) = qualifier out of range (m) = manual integration  
 0201002.D 011820RC.M Mon Jan 20 09:10:21 2020

GARY

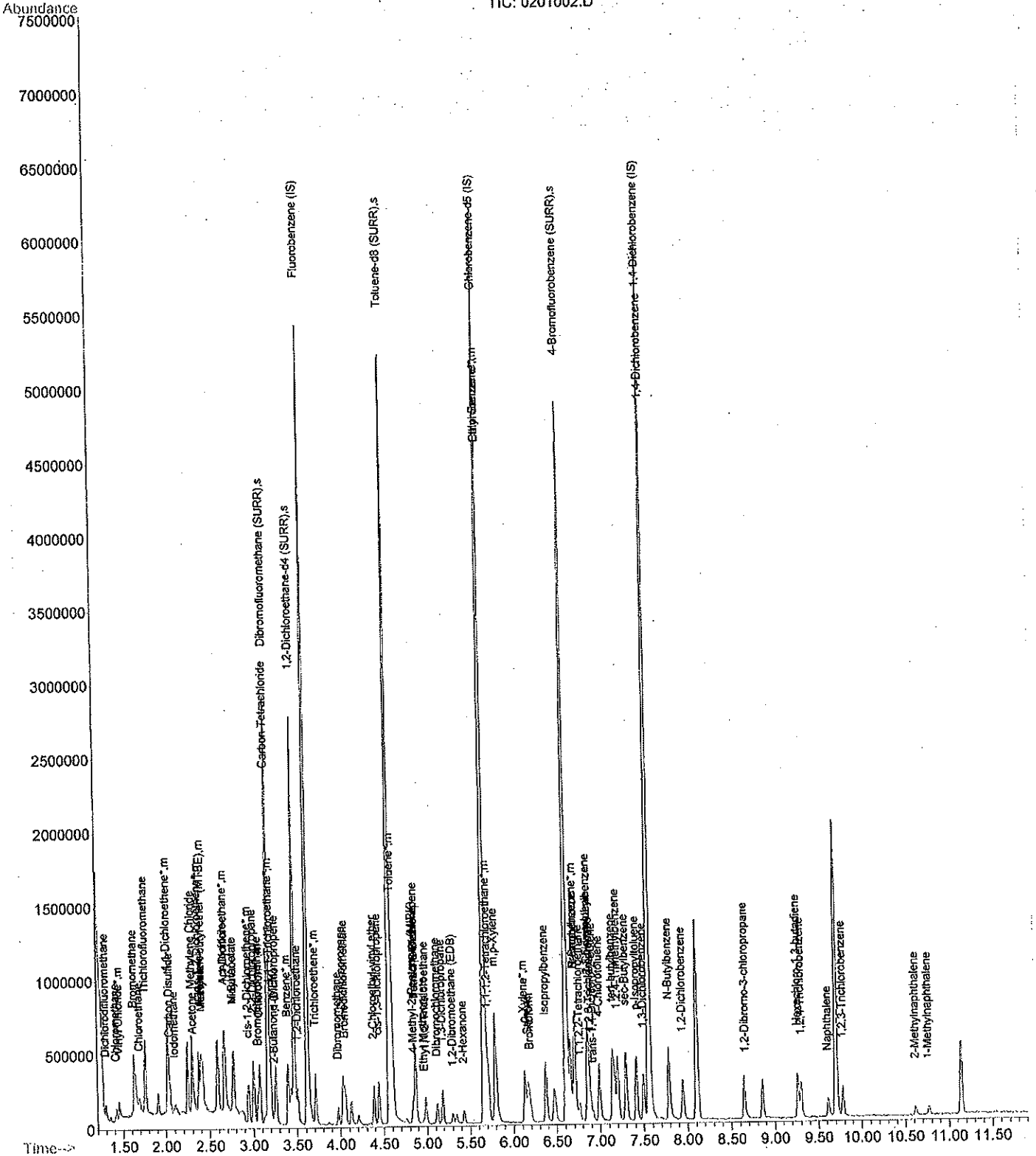
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0201002.D  
Acq On : 18 Jan 2020 8:16 am  
Sample : 5ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:18 2020

Vial: 2  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 122319RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0301003.D  
 Acq On : 18 Jan 2020 8:32 am  
 Sample : 10ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:12 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	403642	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	316385	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	138357	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	180080	61.61	ppb	0.00
Spiked Amount 50.000	Range	54 - 140	Recovery	=	123.22%	
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	264001	69.54	ppb	0.00
Spiked Amount 50.000	Range	54 - 138	Recovery	=	139.08%#	
42) Toluene-d8 (SURR)	4.57	98	435987	55.13	ppb	0.00
Spiked Amount 50.000	Range	61 - 127	Recovery	=	110.26%	
62) 4-Bromofluorobenzene (SURR)	6.61	95	227931	58.39	ppb	0.00
Spiked Amount 50.000	Range	69 - 131	Recovery	=	116.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	157340	11.19	ppb	98
3) Chloromethane	1.42	50	114631	12.26	ppb	96
4) Vinyl Chloride*	1.45	62	120183	11.45	ppb	92
5) Bromomethane	1.63	94	159223	15.59	ppb	96
6) Chloroethane	1.69	64	93286	12.28	ppb	98
7) Acrolein	2.40	56	104503	12.22	ppb	89
8) Trichlorofluoromethane	1.76	101	383205	13.77	ppb	98
9) Acetone	2.32	43	102739	50.60	ppb	# 84
10) 1,1-Dichloroethene*	2.02	61	298452	13.84	ppb	98
11) Acrylonitrile	2.67	53	327520	13.47	ppb	98
12) Iodomethane	2.10	142	79315	8.20	ppb	94
13) Methylene Chloride	2.30	84	170987	17.46	ppb	98
14) Carbon Disulfide	2.05	76	185982	12.17	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	114196	13.08	ppb	95
16) Methyl-tert-butyl ether* (	2.42	73	266321	13.65	ppb	94
17) 1,1-Dichloroethane*	2.68	63	338219	13.53	ppb	98
18) Vinyl Acetate	2.78	43	269153	16.41	ppb	100
19) N-Hexane	2.40	57	188601	11.73	ppb	97
20) N-Butanol	2.77	57	110162	14.32	ppb	96
21) 2-Butanone (MEK)	3.24	43	77503	32.62	ppb	# 100
22) cis-1,2-Dichloroethene*	2.95	61	216066	12.72	ppb	97
23) Bromochloromethane	3.06	128	31162	11.48	ppb	96
24) Chloroform*	3.08	83	271256	12.27	ppb	98
25) 2-2-Dichloropropane	3.01	77	285563	12.74	ppb	98
28) 1,2-Dichloroethane	3.51	62	221371	13.40	ppb	96
29) 1,1,1-Trichloroethane*	3.20	97	266901	11.86	ppb	98
30) 1,1-Dichloropropene	3.26	75	171678	11.05	ppb	100
31) Carbon Tetrachloride	3.17	117	253140	12.81	ppb	91
32) Benzene*	3.40	78	309069	10.14	ppb	98
33) Dibromomethane	3.97	93	63419	11.82	ppb	97
34) 1,2-Dichloropropane	4.03	63	85102	10.05	ppb	88
35) Trichloroethene*	3.72	95	115678	11.17	ppb	98
36) Bromodichloromethane	4.06	83	186843	12.19	ppb	98
37) 2-Chloroethyl-vinyl ether	4.39	63	109365	50.93	ppb	98
38) cis-1,3-Dichloropropene	4.45	75	142368	11.35	ppb	93
39) 4-Methyl-2-Pentanone (MIBK	4.85	43	165340	28.09	ppb	97
40) trans-1,3-Dichloropene	4.87	75	133876	11.67	ppb	# 75
41) 1,1,2-Trichloroethane	4.99	83	50690	11.15	ppb	97
43) Toluene*	4.60	91	375294	10.98	ppb	99
44) Ethyl Methacrylate	4.96	69	8566	7.71	ppb	# 68
45) 1,3-Dichloropropane	5.19	76	101690	10.59	ppb	97
46) 2-Hexanone	5.43	43	108036	26.65	ppb	95
48) Dibromochloromethane	5.12	129	82770	11.75	ppb	98
49) 1,2-Dibromoethane (EDB)	5.30	107	61591	10.81	ppb	92

(#) = qualifier out of range (m) = manual integration  
 0301003.D 011820RC.M Mon Jan 20 09:10:27 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0301003.D  
 Acq On : 18 Jan 2020 8:32 am  
 Sample : 10ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:12 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	71607	10.93	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.72	131	80050	11.29	ppb	98
52) Chlorobenzene*	5.68	112	212544	9.83	ppb	95
53) Ethyl Benzene*	5.69	91	496889	10.58	ppb	93
54) m,p-Xylene	5.79	91	819012	22.78	ppb	99
55) o-Xylene*	6.13	106	137073	9.90	ppb	97
56) Bromoform	6.20	173	34825	11.84	ppb	# 94
57) Styrene	6.17	104	203670	9.91	ppb	99
58) 1,1,2,2-Tetrachloroethane	6.77	85	45502	11.28	ppb	91
59) trans-1,4-Dichloro-2-buten	6.92	53	29678	12.93	ppb	93
60) 1,2,3-Trichloropropane	6.89	75	97712	11.34	ppb	# 95
61) Isopropylbenzene	6.37	105	452978	10.14	ppb	96
63) Bromobenzene	6.70	156	67466	10.74	ppb	99
64) N-Propylbenzene*	6.71	91	656203	11.14	ppb	100
65) 2-Chlorotoluene	6.85	91	430394	10.95	ppb	98
66) 4-Chlorotoluene	6.99	126	75498	10.11	ppb	95
68) 1,3,5-Trimethylbenzene	6.87	105	407745	10.26	ppb	99
69) tert-butylbenzene	7.14	119	344297	9.68	ppb	98
70) 1,2,4-Trimethylbenzene	7.20	105	388817	9.71	ppb	98
71) sec-Butylbenzene	7.29	105	545046	10.32	ppb	98
72) 1,3-Dichlorobenzene	7.50	146	127828	9.75	ppb	97
73) 1,4-Dichlorobenzene	7.57	148	82348	10.11	ppb	97
74) p-Isopropyltoluene	7.41	119	391864	9.97	ppb	99
75) 1,2-Dichlorobenzene	7.95	146	106792	9.55	ppb	95
76) N-Butylbenzene	7.79	91	462976	9.39	ppb	97
77) 1,2-Dibromo-3-chloropropan	8.67	155	4604	9.16	ppb	# 72
78) 1,2,4-Trichlorobenzene	9.31	180	76718	10.18	ppb	96
79) Naphthalene	9.61	128	115248	9.30	ppb	98
80) Hexachloro-1,3-butadiene	9.26	225	49312	11.13	ppb	98
81) 1,2,3-Trichlorobenzene	9.78	180	68131	11.21	ppb	96
82) 1-Methylnaphthalene	10.77	142	36797	7.71	ppb	96
83) 2-Methylnaphthalene	10.62	142	39222	6.85	ppb	94

(#) = qualifier out of range (m) = manual integration  
 0301003.D 011820RC.M Mon Jan 20 09:10:27 2020

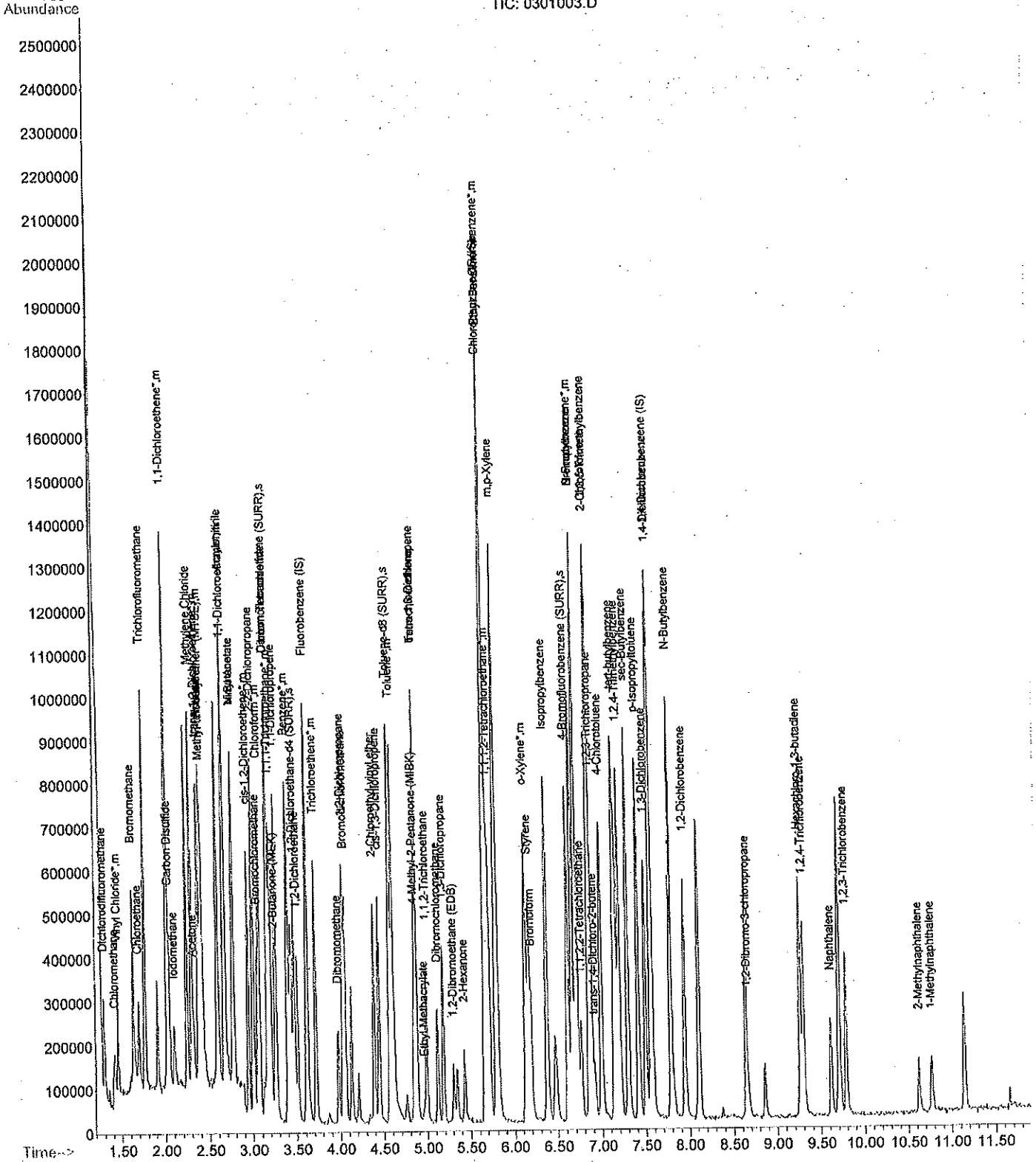
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0301003.D  
Acq On : 18 Jan 2020 8:32 am  
Sample : 10ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:12 2020

Vial: 3  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0401004.D  
 Acq On : 18 Jan 2020 8:49 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:27 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	487976	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	376223	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	151911	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	206059	62.96	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	125.92%
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	313021	77.16	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	154.32%#
42) Toluene-d8 (SURR)	4.57	98	504214	53.18	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	106.36%
62) 4-Bromofluorobenzene (SURR)	6.62	95	258815	58.63	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	117.26%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	326669	20.24	ppb	99
3) Chloromethane	1.41	50	221296	20.38	ppb	96
4) Vinyl Chloride*	1.45	62	227271	18.97	ppb	90
5) Bromomethane	1.63	94	309098	29.54	ppb	98
6) Chloroethane	1.70	64	190197	21.77	ppb	97
7) Acrolein	2.40	56	193867	19.75	ppb	90
8) Trichlorofluoromethane	1.77	101	774558	25.76	ppb	100
9) Acetone	2.32	43	163357	75.42	ppb	99
10) 1,1-Dichloroethene*	2.02	61	588213	25.13	ppb	99
11) Acrylonitrile	2.67	53	642177	24.24	ppb	98
12) Iodomethane	2.10	142	212543	19.52	ppb	100
13) Methylene Chloride	2.30	84	265472	23.90	ppb	97
14) Carbon Disulfide	2.05	76	369094	21.48	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	216820	22.51	ppb	93
16) Methyl-tert-butyl ether* (	2.43	73	519088	24.31	ppb	# 20
17) 1,1-Dichloroethane*	2.68	63	678069	24.83	ppb	99
18) Vinyl Acetate	2.78	43	480495	27.23	ppb	100
19) N-Hexane	2.40	57	403213	21.94	ppb	93
20) N-Butanol	2.78	57	209628	24.92	ppb	99
21) 2-Butanone (MEK)	3.24	43	160654	59.38	ppb	# 96
22) cis-1,2-Dichloroethene*	2.95	61	394338	20.32	ppb	98
23) Bromochloromethane	3.06	128	60060	18.98	ppb	92
24) Chloroform*	3.08	83	523945	20.93	ppb	100
25) 2-2-Dichloropropane	3.01	77	548678	21.79	ppb	98
28) 1,2-Dichloroethane	3.51	62	432810	23.78	ppb	97
29) 1,1,1-Trichloroethane*	3.21	97	550999	22.04	ppb	97
30) 1,1-Dichloropropene	3.27	75	351962	19.67	ppb	99
31) Carbon Tetrachloride	3.17	117	492884	22.73	ppb	99
32) Benzene*	3.41	78	620639	17.19	ppb	98
33) Dibromomethane	3.98	93	131311	21.58	ppb	97
34) 1,2-Dichloropropane	4.03	63	185031	18.57	ppb	93
35) Trichloroethene*	3.72	95	242109	20.43	ppb	96
36) Bromodichloromethane	4.06	83	362343	20.98	ppb	100
37) 2-Chloroethyl-vinyl ether	4.39	63	226201	94.02	ppb	98
38) cis-1,3-Dichloropropene	4.45	75	281751	19.31	ppb	96
39) 4-Methyl-2-Pentanone (MIBK)	4.85	43	327851	47.52	ppb	98
40) trans-1,3-Dichloropene	4.87	75	270166	20.64	ppb	# 76
41) 1,1,2-Trichloroethane	4.99	83	103002	19.38	ppb	98
43) Toluene*	4.60	91	729101	18.16	ppb	98
44) Ethyl Methacrylate	4.96	69	22656	17.04	ppb	# 90
45) 1,3-Dichloropropane	5.19	76	218828	19.62	ppb	99
46) 2-Hexanone	5.43	43	223081	46.78	ppb	99
48) Dibromochloromethane	5.12	129	168558	21.25	ppb	97
49) 1,2-Dibromoethane (EDB)	5.30	107	133000	20.18	ppb	96

(#) = qualifier out of range (m) = manual integration  
 0401004.D 011820RC.M Mon Jan 20 09:10:32 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0401004.D  
 Acq On : 18 Jan 2020 8:49 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:27 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	140859	18.50	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.72	131	160370	19.80	ppb	99
52) Chlorobenzene*	5.68	112	431902	16.89	ppb	97
53) Ethyl Benzene*	5.69	91	1010936	18.27	ppb	96
54) m,p-Xylene	5.79	91	1569811	37.25	ppb	99
55) o-Xylene*	6.13	106	265779	16.08	ppb	# 96
56) Bromoform	6.21	173	70688	21.49	ppb	99
57) Styrene	6.17	104	402616	16.59	ppb	98
58) 1,1,2,2-Tetrachloroethane	6.77	85	91718	19.53	ppb	96
59) trans-1,4-Dichloro-2-buten	6.92	53	56209	22.00	ppb	99
60) 1,2,3-Trichloropropane	6.89	75	197899	19.99	ppb	# 96
61) Isopropylbenzene	6.37	105	951417	18.19	ppb	99
63) Bromobenzene	6.71	156	128275	17.49	ppb	97
64) N-Propylbenzene*	6.71	91	1292784	18.75	ppb	99
65) 2-Chlorotoluene	6.85	91	862844	19.06	ppb	98
66) 4-Chlorotoluene	6.99	126	151987	17.27	ppb	94
68) 1,3,5-Trimethylbenzene	6.87	105	817395	19.44	ppb	98
69) tert-butylbenzene	7.14	119	709337	18.70	ppb	98
70) 1,2,4-Trimethylbenzene	7.20	105	782091	18.28	ppb	98
71) sec-Butylbenzene	7.30	105	1099502	19.52	ppb	100
72) 1,3-Dichlorobenzene	7.50	146	259734	18.53	ppb	98
73) 1,4-Dichlorobenzene	7.57	148	159466	18.20	ppb	97
74) p-Isopropyltoluene	7.42	119	792740	19.00	ppb	99
75) 1,2-Dichlorobenzene	7.95	146	231948	19.57	ppb	99
76) N-Butylbenzene	7.79	91	1042006	19.85	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.68	155	9547	17.83	ppb	# 70
78) 1,2,4-Trichlorobenzene	9.30	180	162658	20.85	ppb	99
79) Naphthalene	9.61	128	243099	18.25	ppb	97
80) Hexachloro-1,3-butadiene	9.27	225	99228	21.72	ppb	94
81) 1,2,3-Trichlorobenzene	9.79	180	134000	21.31	ppb	94
82) 1-Methylnaphthalene	10.77	142	93427	18.10	ppb	99
83) 2-Methylnaphthalene	10.62	142	101047	16.14	ppb	98

(#) = qualifier out of range (m) = manual integration  
 0401004.D 011820RC.M Mon Jan 20 09:10:32 2020

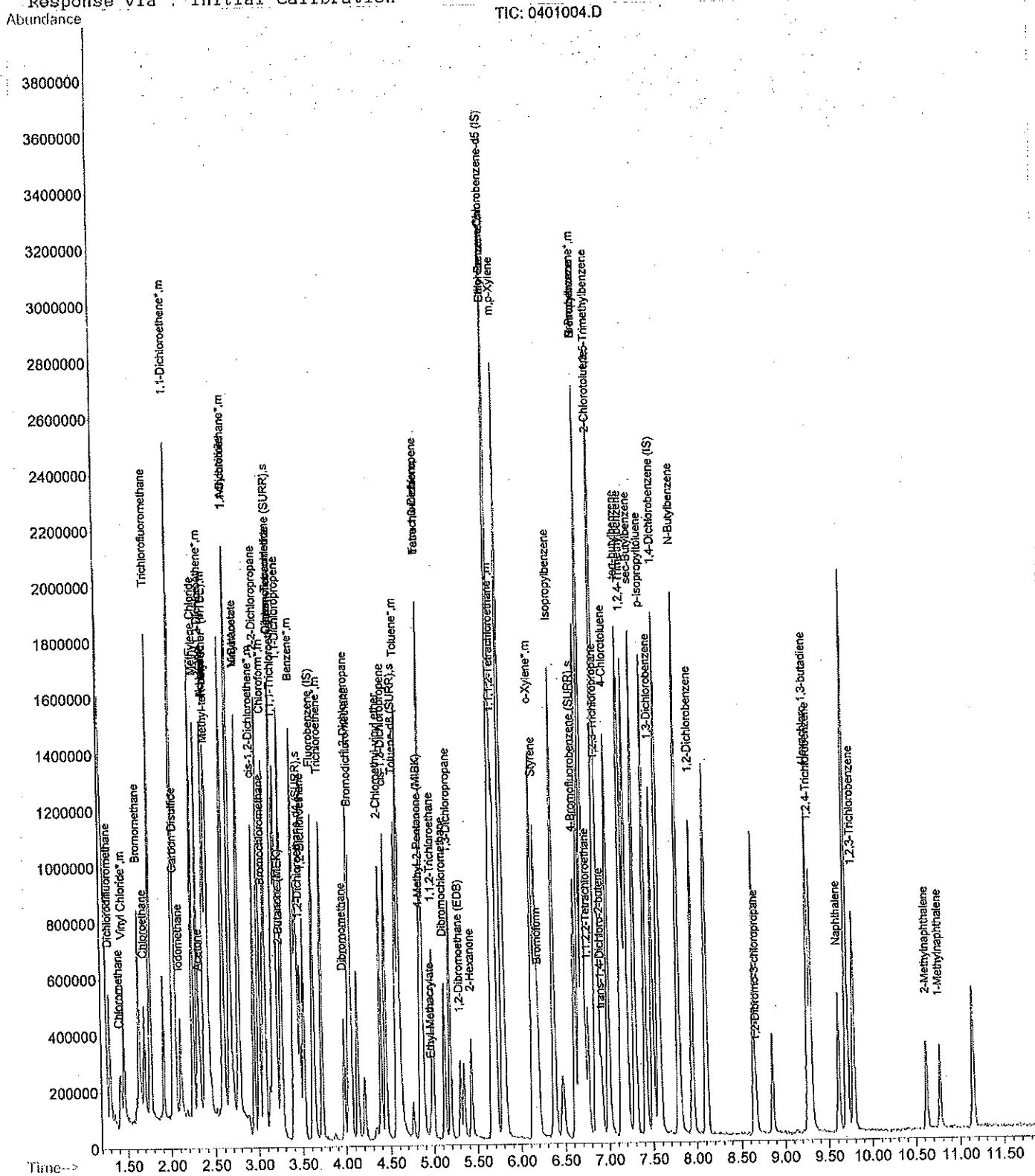
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0401004.D  
Acq On : 18 Jan 2020 8:49 am  
Sample : 20ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:11 2020

Vial: 4  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0501005.D  
 Acq On : 18 Jan 2020 9:06 am  
 Sample : 50ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 18 9:19 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Sat Jan 18 09:19:36 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	3.62	96	547208	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	423067	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	179307	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
26) Dibromofluoromethane (SURR)	3.18	113	218254	66.96	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	133.92%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	312867	81.46	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	162.92%#
42) Toluene-d8 (SURR)	4.57	98	562934	57.26	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	114.52%
62) 4-Bromofluorobenzene (SURR)	6.61	95	292285	63.81	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	127.62%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1295259	81.49	ppb	100
3) Chloromethane	1.41	50	672632	60.86	ppb	100
4) Vinyl Chloride*	1.45	62	882040	77.60	ppb	100
5) Bromomethane	1.63	94	933116	121.37	ppb	100
6) Chloroethane	1.69	64	590492	70.28	ppb	100
7) Acrolein	2.40	56	671512	70.32	ppb	100
8) Trichlorofluoromethane	1.76	101	2490710	92.14	ppb	100
9) Acetone	2.32	43	462216	233.53	ppb	100
10) 1,1-Dichloroethene*	2.02	61	1760081	85.09	ppb	100
11) Acrylonitrile	2.67	53	1972767	86.99	ppb	100
12) Iodomethane	2.10	142	788897	86.73	ppb	100
13) Methylene Chloride	2.30	84	759539	71.34	ppb	100
14) Carbon Disulfide	2.05	76	1200253	75.55	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	719816	83.99	ppb	100
16) Methyl-tert-butyl ether* (	2.42	73	1676807	90.35	ppb	100
17) 1,1-Dichloroethane*	2.68	63	2029512	85.79	ppb	100
18) Vinyl Acetate	2.78	43	1431441	93.97	ppb	100
19) N-Hexane	2.40	57	1269334	71.91	ppb	100
20) N-Butanol	2.77	57	638373	85.03	ppb	100
21) 2-Butanone (MEK)	3.24	43	459117	162.72	ppb	# 100
22) cis-1,2-Dichloroethene*	2.95	61	1279916	65.60	ppb	100
23) Bromochloromethane	3.06	128	199565	63.99	ppb	100
24) Chloroform*	3.08	83	1690468	68.42	ppb	100
25) 2-2-Dichloropropane	3.00	77	1765754	72.83	ppb	100
28) 1,2-Dichloroethane	3.51	62	1405686	81.43	ppb	100
29) 1,1,1-Trichloroethane*	3.20	97	1779050	76.49	ppb	100
30) 1,1-Dichloropropene	3.26	75	1149974	64.38	ppb	100
31) Carbon Tetrachloride	3.17	117	1600844	81.99	ppb	100
32) Benzene*	3.40	78	2067037	54.13	ppb	100
33) Dibromomethane	3.98	93	413280	66.37	ppb	100
34) 1,2-Dichloropropane	4.03	63	578726	52.71	ppb	100
35) Trichloroethene*	3.72	95	775709	67.59	ppb	100
36) Bromodichloromethane	4.06	83	1190013	74.70	ppb	100
37) 2-Chloroethyl-vinyl ether	4.39	63	586206	242.49	ppb	100
38) cis-1,3-Dichloropropene	4.45	75	937186	60.83	ppb	100
39) 4-Methyl-2-Pentanone (MIBK	4.84	43	1158842	162.79	ppb	100
40) trans-1,3-Dichloropene	4.88	75	895924	72.58	ppb	100
41) 1,1,2-Trichloroethane	4.99	83	346719	62.06	ppb	100
43) Toluene*	4.61	91	2443685	60.03	ppb	100
44) Ethyl Methacrylate	4.96	69	79227	56.05	ppb	# 100
45) 1,3-Dichloropropane	5.19	76	719931	63.09	ppb	100
46) 2-Hexanone	5.43	43	773759	159.56	ppb	100
48) Dibromochloromethane	5.12	129	557748	66.82	ppb	100
49) 1,2-Dibromoethane (EDB)	5.31	107	422208	57.75	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0501005.D 011820RC.M Mon Jan 20 09:10:38 2020

GARY

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0501005.D  
 Acq On : 18 Jan 2020 9:06 am  
 Sample : 50ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 18 9:19 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Sat Jan 18 09:19:36 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	471055	58.58	ppb	100
51) 1,1,1,2-Tetrachloroethane*	5.72	131	528493	62.27	ppb	100
52) Chlorobenzene*	5.68	112	1477742	53.33	ppb	100
53) Ethyl Benzene*	5.68	91	3526217	58.39	ppb	100
54) m,p-Xylene	5.80	91	5660124	121.27	ppb	100
55) o-Xylene*	6.13	106	967638	53.30	ppb	100
56) Bromoform	6.21	173	247674	72.89	ppb	100
57) Styrene	6.17	104	1447546	53.72	ppb	100
58) 1,1,2,2-Tetrachloroethane	6.77	85	294653	54.62	ppb	100
59) trans-1,4-Dichloro-2-buten	6.92	53	201242	78.50	ppb	100
60) 1,2,3-Trichloropropane	6.89	75	682754	63.31	ppb #	100
61) Isopropylbenzene	6.37	105	3390193	60.93	ppb	100
63) Bromobenzene	6.71	156	457431	58.81	ppb	100
64) N-Propylbenzene*	6.71	91	4627022	61.20	ppb	100
65) 2-Chlorotoluene	6.86	91	2998000	63.32	ppb	100
66) 4-Chlorotoluene	6.99	126	555784	58.45	ppb	100
68) 1,3,5-Trimethylbenzene	6.87	105	2911925	63.47	ppb	100
69) tert-butylbenzene	7.15	119	2517003	60.08	ppb	100
70) 1,2,4-Trimethylbenzene	7.21	105	2917759	61.69	ppb	100
71) sec-Butylbenzene	7.30	105	3935311	62.73	ppb	100
72) 1,3-Dichlorobenzene	7.50	146	911832	57.43	ppb	100
73) 1,4-Dichlorobenzene	7.58	148	570607	57.44	ppb	100
74) p-Isopropyltoluene	7.42	119	2885734	63.10	ppb	100
75) 1,2-Dichlorobenzene	7.95	146	779036	58.04	ppb	100
76) N-Butylbenzene	7.79	91	3699917	63.51	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.67	155	41127	68.26	ppb	100
78) 1,2,4-Trichlorobenzene	9.30	180	565289	67.78	ppb	100
79) Naphthalene	9.62	128	909697	59.47	ppb	100
80) Hexachloro-1,3-butadiene	9.27	225	340828	72.48	ppb	100
81) 1,2,3-Trichlorobenzene	9.79	180	469348	69.51	ppb	100
82) 1-Methylnaphthalene	10.77	142	362486	62.04	ppb	100
83) 2-Methylnaphthalene	10.62	142	439083	62.04	ppb	100





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0601006.D  
 Acq On : 18 Jan 2020 9:22 am  
 Sample : 100ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:10 2020

Vial: 6  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Sat Jan 18 09:19:36 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	620554	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	484170	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	194503	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	238667	64.57	ppb	0.00
Spiked Amount 50.000	Range	54 - 140	Recovery =	129.14%		
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	310194	71.21	ppb	0.00
Spiked Amount 50.000	Range	54 - 138	Recovery =	142.42%#		
42) Toluene-d8 (SURR)	4.57	98	659714	59.18	ppb	0.00
Spiked Amount 50.000	Range	61 - 127	Recovery =	118.36%		
62) 4-Bromofluorobenzene (SURR)	6.62	95	291494	55.61	ppb	0.00
Spiked Amount 50.000	Range	69 - 131	Recovery =	111.22%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	2799383	155.30	ppb	100
3) Chloromethane	1.40	50	1517432	121.06	ppb	98
4) Vinyl Chloride*	1.45	62	1907735	148.01	ppb	99
5) Bromomethane	1.62	94	2122707	243.46	ppb	98
6) Chloroethane	1.69	64	1238615	129.99	ppb	99
7) Acrolein	2.40	56	1516844	140.06	ppb	96
8) Trichlorofluoromethane	1.76	101	5417633	176.73	ppb	99
9) Acetone	2.32	43	928457	413.65	ppb	99
10) 1,1-Dichloroethene*	2.02	61	4254641	181.38	ppb	99
11) Acrylonitrile	2.67	53	4459943	173.42	ppb	99
12) Iodomethane	2.10	142	1948415	188.88	ppb	97
13) Methylene Chloride	2.30	84	1706571	141.34	ppb	98
14) Carbon Disulfide	2.05	76	2853943	158.42	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	1611929	165.85	ppb	98
16) Methyl-tert-butyl ether* (	2.42	73	3676931	174.71	ppb	97
17) 1,1-Dichloroethane*	2.68	63	4587368	170.99	ppb	99
18) Vinyl Acetate	2.78	43	2907582	168.32	ppb	99
19) N-Hexane	2.40	57	2885082	144.12	ppb	100
20) N-Butanol	2.78	57	1369367	160.85	ppb	98
21) 2-Butanone (MEK)	3.24	43	954374	298.26	ppb	# 98
22) cis-1,2-Dichloroethene*	2.95	61	2854776	129.03	ppb	99
23) Bromochloromethane	3.06	128	431334	121.96	ppb	96
24) Chloroform*	3.08	83	3802562	135.71	ppb	99
25) 2-2-Dichloropropane	3.01	77	3980334	144.77	ppb	99
28) 1,2-Dichloroethane	3.51	62	3012388	153.87	ppb	98
29) 1,1,1-Trichloroethane*	3.21	97	4098336	155.39	ppb	97
30) 1,1-Dichloropropene	3.27	75	2683329	132.48	ppb	100
31) Carbon Tetrachloride	3.17	117	3691533	166.73	ppb	100
32) Benzene*	3.40	78	5024998	116.03	ppb	97
33) Dibromomethane	3.98	93	901797	127.71	ppb	97
34) 1,2-Dichloropropane	4.03	63	1297737	104.23	ppb	97
35) Trichloroethene*	3.72	95	1756229	134.95	ppb	98
36) Bromodichloromethane	4.06	83	2689067	148.84	ppb	97
37) 2-Chloroethyl-vinyl ether	4.39	63	1336620	487.56	ppb	99
38) cis-1,3-Dichloropropene	4.45	75	2089132	119.58	ppb	96
39) 4-Methyl-2-Pentanone (MIBK	4.85	43	2405213	297.94	ppb	97
40) trans-1,3-Dichloropene	4.88	75	1994789	142.51	ppb	85
41) 1,1,2-Trichloroethane	4.99	83	713812	112.67	ppb	98
43) Toluene*	4.61	91	5833457	126.36	ppb	99
44) Ethyl Methacrylate	4.96	69	189072	117.96	ppb	# 91
45) 1,3-Dichloropropane	5.19	76	1550257	119.80	ppb	99
46) 2-Hexanone	5.43	43	1692405	307.75	ppb	100
48) Dibromochloromethane	5.13	129	1218857	127.60	ppb	99
49) 1,2-Dibromoethane (EDB)	5.31	107	889089	106.26	ppb	94

(#) = qualifier out of range (m) = manual integration  
 0601006.D 011820RC.M Mon Jan 20 09:10:43 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0601006.D  
 Acq On : 18 Jan 2020 9:22 am  
 Sample : 100ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:10 2020

Vial: 6  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Sat Jan 18 09:19:36 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	1111677	120.80	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.72	131	1175478	121.03	ppb	98
52) Chlorobenzene*	5.68	112	3564335	112.41	ppb	95
53) Ethyl Benzene*	5.69	91	8391694	121.42	ppb	97
54) m,p-Xylene	5.80	91	11802769	220.96	ppb	91
55) o-Xylene*	6.13	106	2187283	105.27	ppb	99
56) Bromoform	6.20	173	538089	138.38	ppb	99
57) Styrene	6.18	104	3345500	108.49	ppb	96
58) 1,1,2,2-Tetrachloroethane	6.77	85	615161	99.64	ppb	99
59) trans-1,4-Dichloro-2-buten	6.92	53	432389	147.38	ppb	98
60) 1,2,3-Trichloropropane	6.90	75	1181396	95.72	ppb	# 84
61) Isopropylbenzene	6.37	105	8048343	126.39	ppb	98
63) Bromobenzene	6.71	156	1047448	117.67	ppb	97
64) N-Propylbenzene*	6.71	91	10369514	119.84	ppb	99
65) 2-Chlorotoluene	6.86	91	6884423	127.05	ppb	100
66) 4-Chlorotoluene	7.00	126	1230866	113.10	ppb	95
68) 1,3,5-Trimethylbenzene	6.87	105	6877707	138.20	ppb	99
69) tert-butylbenzene	7.15	119	5942323	130.76	ppb	97
70) 1,2,4-Trimethylbenzene	7.21	105	6749247	131.56	ppb	99
71) sec-Butylbenzene	7.30	105	9479966	139.31	ppb	99
72) 1,3-Dichlorobenzene	7.50	146	2101486	122.02	ppb	99
73) 1,4-Dichlorobenzene	7.58	148	1299810	120.62	ppb	99
74) p-Isopropyltoluene	7.42	119	7034970	141.81	ppb	96
75) 1,2-Dichlorobenzene	7.95	146	1772389	121.73	ppb	98
76) N-Butylbenzene	7.79	91	8537628	135.10	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.68	155	82949	126.92	ppb	94
78) 1,2,4-Trichlorobenzene	9.31	180	1223371	135.23	ppb	99
79) Naphthalene	9.62	128	1932476	116.46	ppb	99
80) Hexachloro-1,3-butadiene	9.27	225	759015	148.79	ppb	99
81) 1,2,3-Trichlorobenzene	9.79	180	972727	132.81	ppb	96
82) 1-Methylnaphthalene	10.77	142	799507	126.14	ppb	97
83) 2-Methylnaphthalene	10.62	142	969895	126.34	ppb	98

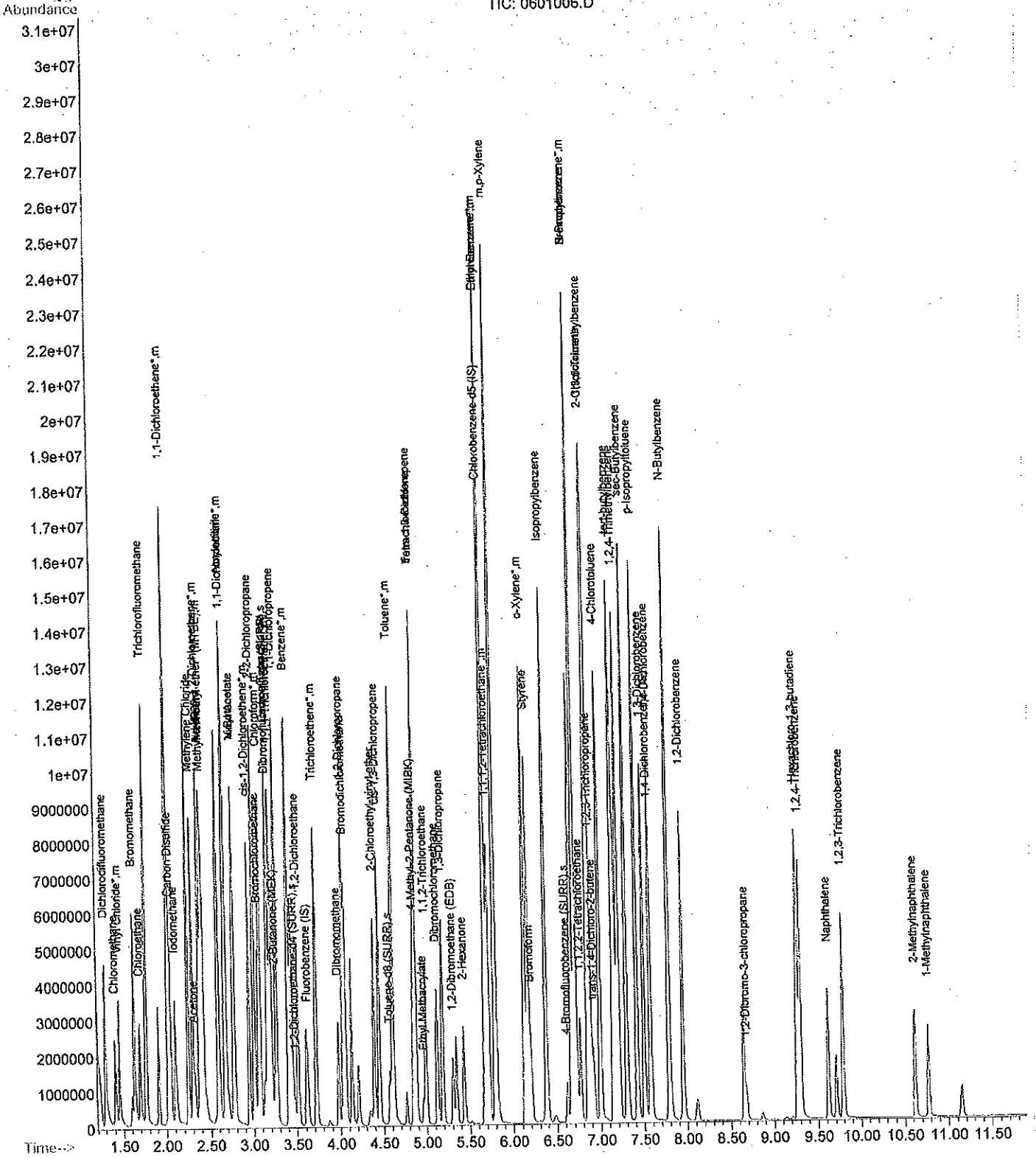
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0601006.D  
Acq On : 18 Jan 2020 9:22 am  
Sample : 100ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:10 2020

Vial: 6  
Operator: gjd  
Inst: VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0701007.D  
 Acq On : 18 Jan 2020 9:39 am  
 Sample : 200ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 7  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:08 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	669222	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	563511	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.57	152	243355	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	272949	65.08	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	130.16%
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	320595	62.27	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	124.54%
42) Toluene-d8 (SURR)	4.58	98	719153	57.76	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	115.52%
62) 4-Bromofluorobenzene (SURR)	6.62	95	368196	58.81	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	117.62%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	4301499	201.59	ppb	100
3) Chloromethane	1.41	50	3285664	232.98	ppb	93
4) Vinyl Chloride*	1.46	62	3808102	250.38	ppb	100
5) Bromomethane	1.63	94	3827165	314.61	ppb	98
6) Chloroethane	1.70	64	2597850	231.46	ppb	91
7) Acrolein	2.41	56	3057295	242.92	ppb	94
8) Trichlorofluoromethane	1.77	101	9276852	244.22	ppb	85
9) Acetone	2.33	43	1668207	604.51	ppb	97
10) 1,1-Dichloroethane*	2.03	61	7859847	269.98	ppb	94
11) Acrylonitrile	2.67	53	10255512	324.79	ppb	96
12) Iodomethane	2.11	142	4225956	326.45	ppb	96
13) Methylene Chloride	2.31	84	3308515	233.58	ppb	94
14) Carbon Disulfide	2.05	76	5872126	273.02	ppb	# 100
15) trans-1,2-Dichloroethane*	2.38	96	3427546	289.40	ppb	99
16) Methyl-tert-butyl ether* (	2.42	73	7376853	283.07	ppb	96
17) 1,1-Dichloroethane*	2.69	63	9491377	285.87	ppb	96
18) Vinyl Acetate	2.79	43	6088549	284.76	ppb	100
19) N-Hexane	2.41	57	5894024	250.23	ppb	99
20) N-Butanol	2.78	57	2833836	270.59	ppb	99
21) 2-Butanone (MEK)	3.25	43	1909612	534.10	ppb	# 99
22) cis-1,2-Dichloroethane*	2.95	61	6221116	247.43	ppb	98
23) Bromochloromethane	3.06	128	985214	243.58	ppb	85
24) Chloroform*	3.08	83	7997865	247.78	ppb	97
25) 2-2-Dichloropropane	3.02	77	8496154	265.83	ppb	99
28) 1,2-Dichloroethane	3.52	62	6022785	260.29	ppb	100
29) 1,1,1-Trichloroethane*	3.21	97	8958342	286.63	ppb	97
30) 1,1-Dichloropropene	3.27	75	5937684	257.79	ppb	100
31) Carbon Tetrachloride	3.17	117	8213950	305.75	ppb	99
32) Benzene*	3.41	78	10530082	220.60	ppb	95
33) Dibromomethane	3.98	93	1824983	228.58	ppb	97
34) 1,2-Dichloropropane	4.04	63	2764206	204.87	ppb	93
35) Trichloroethane*	3.73	95	3876726	257.37	ppb	97
36) Bromodichloromethane	4.07	83	5716731	264.07	ppb	98
37) 2-Chloroethyl-vinyl ether	4.40	63	3241502	1045.05	ppb	99
38) cis-1,3-Dichloropropene	4.45	75	4540018	234.68	ppb	91
39) 4-Methyl-2-Pentanone (MIBK)	4.85	43	4696019	514.43	ppb	98
40) trans-1,3-Dichloropropene	4.88	75	4187053	252.53	ppb	92
41) 1,1,2-Trichloroethane	5.00	83	1479536	210.64	ppb	99
43) Toluene*	4.61	91	12058380	228.77	ppb	95
44) Ethyl Methacrylate	4.96	69	347092	193.03	ppb	# 99
45) 1,3-Dichloropropane	5.19	76	3142363	214.34	ppb	100
46) 2-Hexanone	5.44	43	3248835	517.33	ppb	98
48) Dibromochloromethane	5.12	129	2498904	215.23	ppb	99
49) 1,2-Dibromoethane (EDB)	5.31	107	1836009	186.21	ppb	97

(#) = qualifier out of range (m) = manual integration  
 0701007.D 011820RC.M Mon Jan 20 09:10:50 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0701007.D  
 Acq On : 18 Jan 2020 9:39 am  
 Sample : 200ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 7  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:08 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.88	166	2537316	229.82	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.73	131	2563384	219.47	ppb	98
52) Chlorobenzene*	5.68	112	7901801	210.02	ppb	92
53) Ethyl Benzene*	5.69	91	14050753	169.74	ppb	# 88
54) m,p-Xylene	5.80	91	17443811	271.65	ppb	# 58
55) o-Xylene*	6.14	106	4864972	199.64	ppb	85
56) Bromoform	6.21	173	1092147	227.84	ppb	100
57) Styrene	6.18	104	7201814	198.10	ppb	96
58) 1,1,2,2-Tetrachloroethane	6.78	85	1210139	168.72	ppb	99
59) trans-1,4-Dichloro-2-buten	6.92	53	818752	222.49	ppb	94
60) 1,2,3-Trichloropropane	6.89	75	2963651	202.51	ppb	# 94
61) Isopropylbenzene	6.38	105	13579907	177.24	ppb	90
63) Bromobenzene	6.71	156	2394094	224.12	ppb	90
64) N-Propylbenzene*	6.72	91	15097245	144.52	ppb	# 80
65) 2-Chlorotoluene	6.86	91	13388364	203.73	ppb	95
66) 4-Chlorotoluene	7.00	126	2680267	207.24	ppb	81
68) 1,3,5-Trimethylbenzene	6.88	105	12827123	193.90	ppb	90
69) tert-butylbenzene	7.15	119	12795294	213.30	ppb	96
70) 1,2,4-Trimethylbenzene	7.21	105	12463760	183.78	ppb	92
71) sec-Butylbenzene	7.30	105	13939681	155.27	ppb	# 89
72) 1,3-Dichlorobenzene	7.51	146	4531639	201.97	ppb	97
73) 1,4-Dichlorobenzene	7.58	148	2765075	197.25	ppb	98
74) p-Isopropyltoluene	7.42	119	12148262	183.75	ppb	91
75) 1,2-Dichlorobenzene	7.95	146	3823759	202.18	ppb	98
76) N-Butylbenzene	7.80	91	13304672	159.34	ppb	# 77
77) 1,2-Dibromo-3-chloropropan	8.68	155	157516	182.73	ppb	91
78) 1,2,4-Trichlorobenzene	9.31	180	2734268	225.74	ppb	98
79) Naphthalene	9.62	128	4032032	187.97	ppb	99
80) Hexachloro-1,3-butadiene	9.27	225	1612171	230.71	ppb	97
81) 1,2,3-Trichlorobenzene	9.79	180	2117198	216.27	ppb	98
82) 1-Methylnaphthalene	10.77	142	1602971	193.73	ppb	100
83) 2-Methylnaphthalene	10.62	142	2032471	202.68	ppb	99

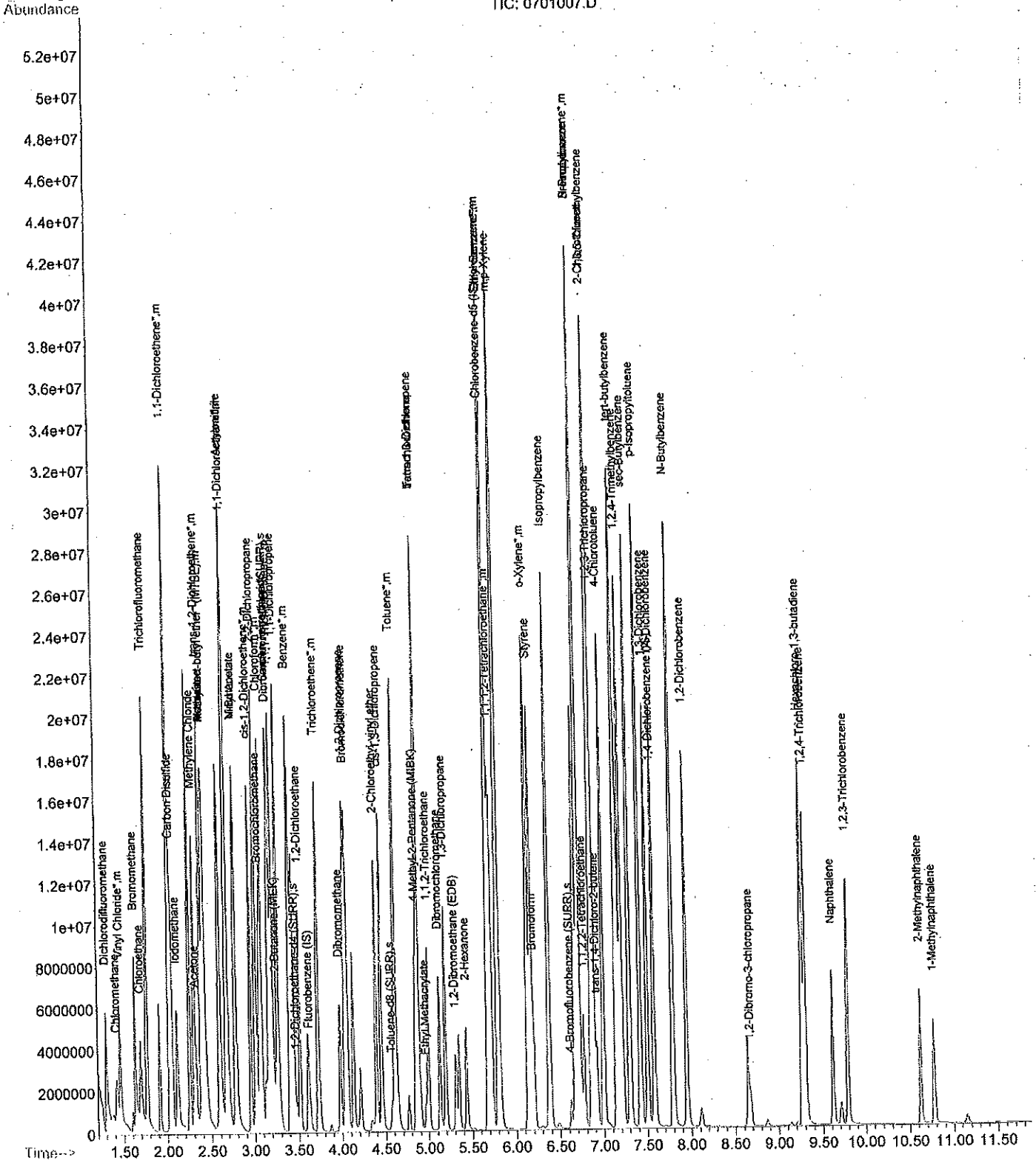
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0701007.D  
Acq On : 18 Jan 2020 9:39 am  
Sample : 200ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:11 2020

Vial: 7  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 8  
 Operator: gjd  
 Inst: VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 Fluorobenzene (IS)	1.000	1.000	0.0	139	0.00
2 Dichlorodifluoromethane	1.984	1.982	0.1	117	0.00
3 Chloromethane	1.201	1.177	2.0	133	0.00
4 m Vinyl Chloride*	1.372	1.365	0.5	118	0.00
5 Bromomethane	1.634	1.365	16.5	111	0.00
6 Chloroethane	0.953	0.919	3.6	118	0.00
7 Acrolein	1.142	1.035	9.4	117	0.00
8 Trichlorofluoromethane	4.108	3.664	10.8	112	0.00
9 Acetone	0.303	0.267	11.9	110	0.00
10 m 1,1-Dichloroethene*	3.170	2.920	7.9	126	0.00
11 Acrylonitrile	3.549	3.229	9.0	125	0.00
12 Iodomethane	1.364	1.316	3.5	127	0.00
13 Methylene Chloride	1.333	1.213	9.0	122	0.00
14 Carbon Disulfide	2.105	1.931	8.3	123	0.00
15 m trans-1,2-Dichloroethene*	1.237	1.119	9.5	118	0.00
16 m Methyl-tert-butyl ether* (M	2.871	2.388	16.8	108	0.00
17 m 1,1-Dichloroethane*	3.665	3.404	7.1	128	0.00
18 Vinyl Acetate	2.200	2.034	7.5	108	0.00
19 N-Hexane	2.190	1.998	8.8	120	0.00
20 N-Butanol	1.125	0.988	12.2	118	0.00
21 2-Butanone (MEK)	0.322	0.269	16.5	111	0.00
22 m cis-1,2-Dichloroethene*	2.232	2.034	8.9	121	0.00
23 Bromochloromethane	0.339	0.334	1.5	128	0.00
24 m Chloroform*	2.972	2.715	8.6	122	0.00
25 2-2-Dichloropropane	3.066	2.739	10.7	118	0.00
26 s Dibromofluoromethane (SURR)	0.371	0.353	4.9	123	0.00
27 s 1,2-Dichloroethane-d4 (SURR)	0.518	0.460	11.2	112	0.00
28 1,2-Dichloroethane	2.413	2.060	14.6	112	0.00
29 m 1,1,1-Trichloroethane*	3.102	2.742	11.6	117	0.00
30 1,1-Dichloropropene	1.985	1.928	2.9	128	0.00
31 Carbon Tetrachloride	2.826	2.504	11.4	119	0.00
32 m Benzene*	3.609	3.586	0.6	132	0.00
33 Dibromomethane	0.708	0.626	11.6	115	0.00
34 1,2-Dichloropropane	0.990	0.997	-0.7	131	0.00
35 m Trichloroethene*	1.349	1.343	0.4	132	0.00
36 Bromodichloromethane	2.055	1.890	8.0	121	0.00
37 2-Chloroethyl-vinyl ether	0.248	0.228	8.1	119	0.00
38 cis-1,3-Dichloropropene	1.583	1.480	6.5	120	0.00
39 4-Methyl-2-Pentanone (MIBK)	0.725	0.675	6.9	111	0.00
40 trans-1,3-Dichloropene	1.505	1.405	6.6	119	0.00
41 1,1,2-Trichloroethane	0.568	0.538	5.3	118	0.00
42 s Toluene-d8 (SURR)	0.963	0.981	-1.9	133	0.00
43 m Toluene*	4.276	4.258	0.4	133	0.00
44 Ethyl Methacrylate	0.136	0.122	10.3	117	0.00
45 1,3-Dichloropropane	1.189	1.126	5.3	119	0.00
46 2-Hexanone	0.492	0.448	8.9	110	0.00
47 Chlorobenzene-d5 (IS)	1.000	1.000	0.0	140	0.00
48 Dibromochloromethane	1.241	1.066	14.1	114	0.00
49 1,2-Dibromoethane (EDB)	0.935	0.819	12.4	115	0.00
50 Tetrachloroethene	1.107	1.061	4.2	134	0.00
51 m 1,1,1,2-Tetrachloroethane*	1.192	1.095	8.1	123	0.00
52 m Chlorobenzene*	3.444	3.242	5.9	130	0.00
53 m Ethyl Benzene*	7.580	7.606	-0.3	128	0.00
54 m,p-Xylene	6.053	6.060	-0.1	127	0.00
55 m o-Xylene*	2.136	2.124	0.6	130	0.00
56 Bromoform	0.546	0.457	16.3	109	0.00
57 Styrene	3.206	3.048	4.9	125	0.00



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 1,1,2,2-Tetrachloroethane	0.660	0.539	18.3	109	0.00
59 trans-1,4-Dichloro-2-butene	0.432	0.347	19.7	102	0.00
60 1,2,3-Trichloropropane	1.388	1.258	9.4	109	0.00
61 Isopropylbenzene	6.963	7.284	-4.6	128	0.00
62 s 4-Bromofluorobenzene (SURR)	0.658	0.635	3.5	129	0.00
63 Bromobenzene	1.020	0.948	7.1	123	0.00
64 m N-Propylbenzene*	9.982	9.634	3.5	124	0.00
65 2-Chlorotoluene	6.588	5.851	11.2	116	0.00
66 4-Chlorotoluene	1.208	1.165	3.6	124	0.00
67 1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	136	0.00
68 1,3,5-Trimethylbenzene	15.265	14.239	6.7	119	0.00
69 tert-butylbenzene	13.587	13.045	4.0	126	0.00
70 1,2,4-Trimethylbenzene	14.962	14.329	4.2	120	0.00
71 sec-Butylbenzene	20.009	19.811	1.0	123	0.00
72 1,3-Dichlorobenzene	4.929	4.390	10.9	117	0.00
73 1,4-Dichlorobenzene	3.116	2.859	8.2	122	0.00
74 p-Isopropyltoluene	14.950	14.389	3.8	122	0.00
75 1,2-Dichlorobenzene	4.219	3.927	6.9	123	0.00
76 N-Butylbenzene	18.989	18.633	1.9	123	0.00
77 1,2-Dibromo-3-chloropropane	0.211	0.173	18.0	102	0.00
78 1,2,4-Trichlorobenzene	3.015	2.794	7.3	121	0.00
79 Naphthalene	4.470	4.678	-4.7	125	0.00
80 Hexachloro-1,3-butadiene	1.827	1.668	8.7	119	0.00
81 1,2,3-Trichlorobenzene	2.450	2.345	4.3	122	0.00
82 1-Methylnaphthalene	1.692	1.974	-16.7	133	0.00
83 2-Methylnaphthalene	2.189	2.420	-10.6	134	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve. 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:50:2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant-Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	761618	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	594010	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.57	152	243871	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	269116	47.67	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	95.34%
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	350616	44.45	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	88.90%
42) Toluene-d8 (SURR)	4.58	98	747160	50.94	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	101.88%
62) 4-Bromofluorobenzene (SURR)	6.62	95	377206	48.29	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	96.58%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1509897	49.96	ppb	100
3) Chloromethane	1.40	50	896363	49.00	ppb	96
4) Vinyl Chloride*	1.45	62	1039691	49.75	ppb	100
5) Bromomethane	1.63	94	1039287	41.75	ppb	99
6) Chloroethane	1.69	64	699727	48.20	ppb	100
7) Acrolein	2.40	56	788233	45.32	ppb	95
8) Trichlorofluoromethane	1.76	101	2790511	44.59	ppb	99
9) Acetone	2.32	43	509090	110.44	ppb	99
10) 1,1-Dichloroethene*	2.02	61	2223976	46.06	ppb	99
11) Acrylonitrile	2.67	53	2459158	45.49	ppb	99
12) Iodomethane	2.10	142	1002382	48.26	ppb	93
13) Methylene Chloride	2.30	84	923665	45.48	ppb	96
14) Carbon Disulfide	2.05	76	1470789	45.88	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	852052	45.22	ppb	98
16) Methyl-tert-butyl ether* (	2.42	73	1818616	41.59	ppb	93
17) 1,1-Dichloroethane*	2.68	63	2592575	46.43	ppb	99
18) Vinyl Acetate	2.78	43	1549241	46.24	ppb	98
19) N-Hexane	2.40	57	1521718	45.62	ppb	99
20) N-Butanol	2.78	57	752594	43.92	ppb	# 97
21) 2-Butanone (MEK)	3.24	43	511756	104.22	ppb	# 98
22) cis-1,2-Dichloroethene*	2.95	61	1549479	45.58	ppb	96
23) Bromochloromethane	3.06	128	254637	49.26	ppb	89
24) Chloroform*	3.08	83	2068128	45.68	ppb	98
25) 2-2-Dichloropropane	3.01	77	2085942	44.66	ppb	98
28) 1,2-Dichloroethane	3.52	62	1568898	42.69	ppb	97
29) 1,1,1-Trichloroethane*	3.21	97	2088441	44.20	ppb	99
30) 1,1-Dichloropropene	3.26	75	1468193	48.57	ppb	98
31) Carbon Tetrachloride	3.17	117	1907065	44.31	ppb	99
32) Benzene*	3.40	78	2731252	49.68	ppb	96
33) Dibromomethane	3.98	93	476491	44.16	ppb	98
34) 1,2-Dichloropropane	4.03	63	758978	50.31	ppb	89
35) Trichloroethene*	3.72	95	1022943	49.78	ppb	97
36) Bromodichloromethane	4.06	83	1439529	45.99	ppb	97
37) 2-Chloroethyl-vinyl ether	4.39	63	695041	184.35	ppb	99
38) cis-1,3-Dichloropropene	4.45	75	1127035	46.73	ppb	91
39) 4-Methyl-2-Pentanone (MIBK)	4.85	43	1285909	116.41	ppb	97
40) trans-1,3-Dichloropene	4.88	75	1069869	46.66	ppb	90
41) 1,1,2-Trichloroethane	5.00	83	409379	47.35	ppb	98
43) Toluene*	4.61	91	3243313	49.80	ppb	99
44) Ethyl Methacrylate	4.96	69	92637	44.85	ppb	# 99
45) 1,3-Dichloropropane	5.19	76	857795	47.35	ppb	99
46) 2-Hexanone	5.44	43	852947	113.78	ppb	97
48) Dibromochloromethane	5.13	129	633185	42.95	ppb	98
49) 1,2-Dibromoethane (EDB)	5.31	107	486749	43.81	ppb	95

(#) = qualifier out of range (m) = manual integration  
 0801008.D 011820RC.M Mon Jan 20 09:10:59 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:50 2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R:T	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	630103	47.90	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.72	131	650472	45.94	ppb	99
52) Chlorobenzene*	5.69	112	1925820	47.07	ppb	96
53) Ethyl Benzene*	5.69	91	4518161	50.17	ppb	96
54) m,p-Xylene	5.80	91	7199211	100.11	ppb	98
55) o-Xylene*	6.14	106	1261599	49.73	ppb	93
56) Bromoform	6.21	173	271197	41.81	ppb	98
57) Styrene	6.17	104	1810293	47.53	ppb	95
58) 1,1,2,2-Tetrachloroethane	6.77	85	320039	40.85	ppb	98
59) trans-1,4-Dichloro-2-buten	6.92	53	206096	40.11	ppb	98
60) 1,2,3-Trichloropropane	6.90	75	747295	45.33	ppb #	98
61) Isopropylbenzene	6.38	105	4326676	52.31	ppb	98
63) Bromobenzene	6.71	156	563398	46.52	ppb	92
64) N-Propylbenzene*	6.72	91	5722699	48.26	ppb	100
65) 2-Chlorotoluene	6.86	91	3475659	44.41	ppb	99
66) 4-Chlorotoluene	7.00	126	691823	48.20	ppb	91
68) 1,3,5-Trimethylbenzene	6.87	105	3472569	46.64	ppb	97
69) tert-butylbenzene	7.15	119	3181333	48.01	ppb	96
70) 1,2,4-Trimethylbenzene	7.21	105	3494512	47.89	ppb	98
71) sec-Butylbenzene	7.30	105	4831210	49.50	ppb	100
72) 1,3-Dichlorobenzene	7.50	146	1070672	44.53	ppb	99
73) 1,4-Dichlorobenzene	7.58	148	697264	45.88	ppb	97
74) p-Isopropyltoluene	7.42	119	3508997	48.12	ppb	97
75) 1,2-Dichlorobenzene	7.96	146	957747	46.55	ppb	98
76) N-Butylbenzene	7.79	91	4544164	49.06	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.68	155	42117	40.95	ppb	97
78) 1,2,4-Trichlorobenzene	9.31	180	681279	46.33	ppb	100
79) Naphthalene	9.62	128	1140934	52.33	ppb	99
80) Hexachloro-1,3-butadiene	9.27	225	406826	45.66	ppb	97
81) 1,2,3-Trichlorobenzene	9.79	180	571952	47.86	ppb	100
82) 1-Methylnaphthalene	10.78	142	481337	58.32	ppb	97
83) 2-Methylnaphthalene	10.63	142	590272	55.30	ppb	98

(#) = qualifier out of range (m) = manual integration  
 0801008.D 011820RC.M Mon Jan 20 09:10:59 2020

Quantitation Report

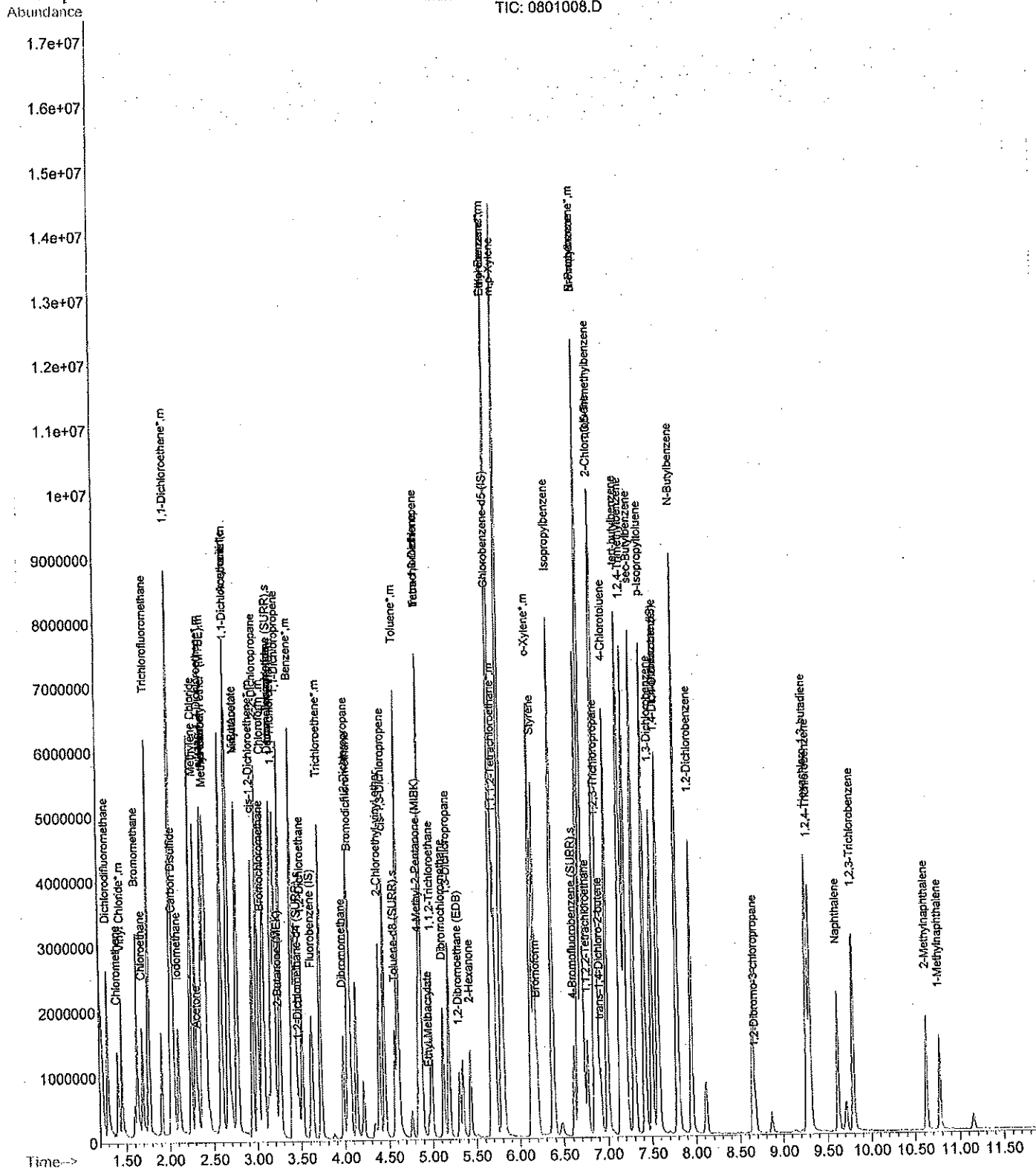
Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:50 2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration

TIC: 0801008.D





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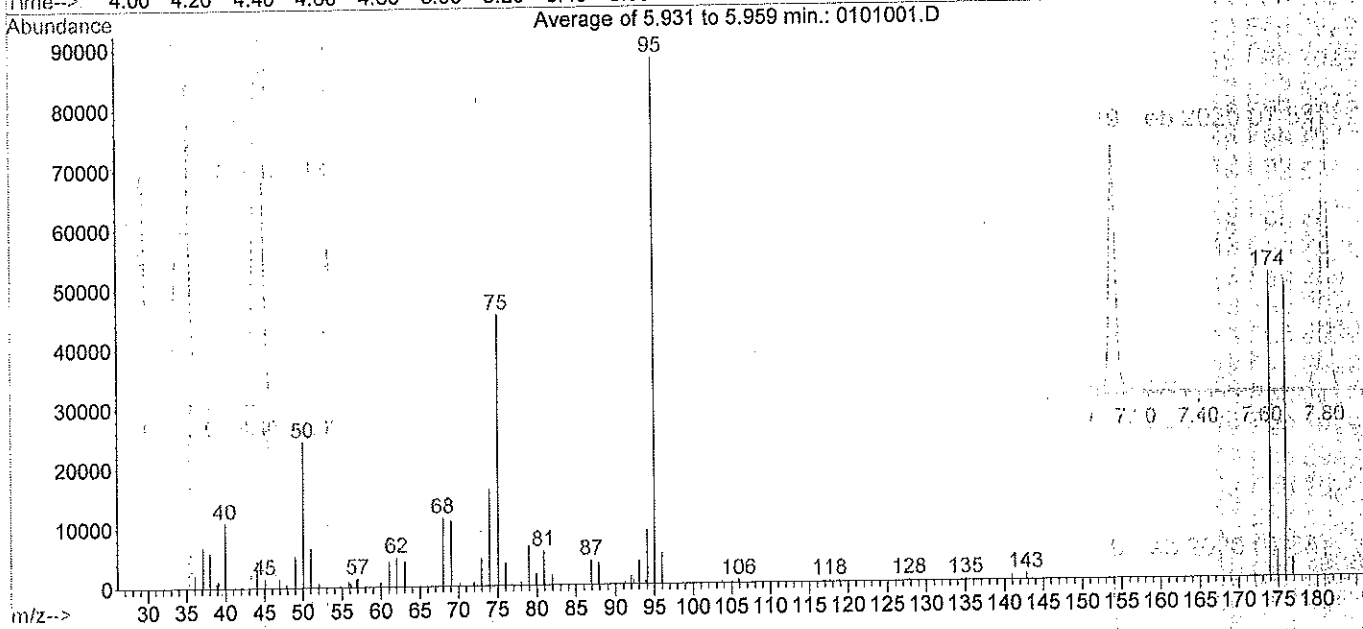
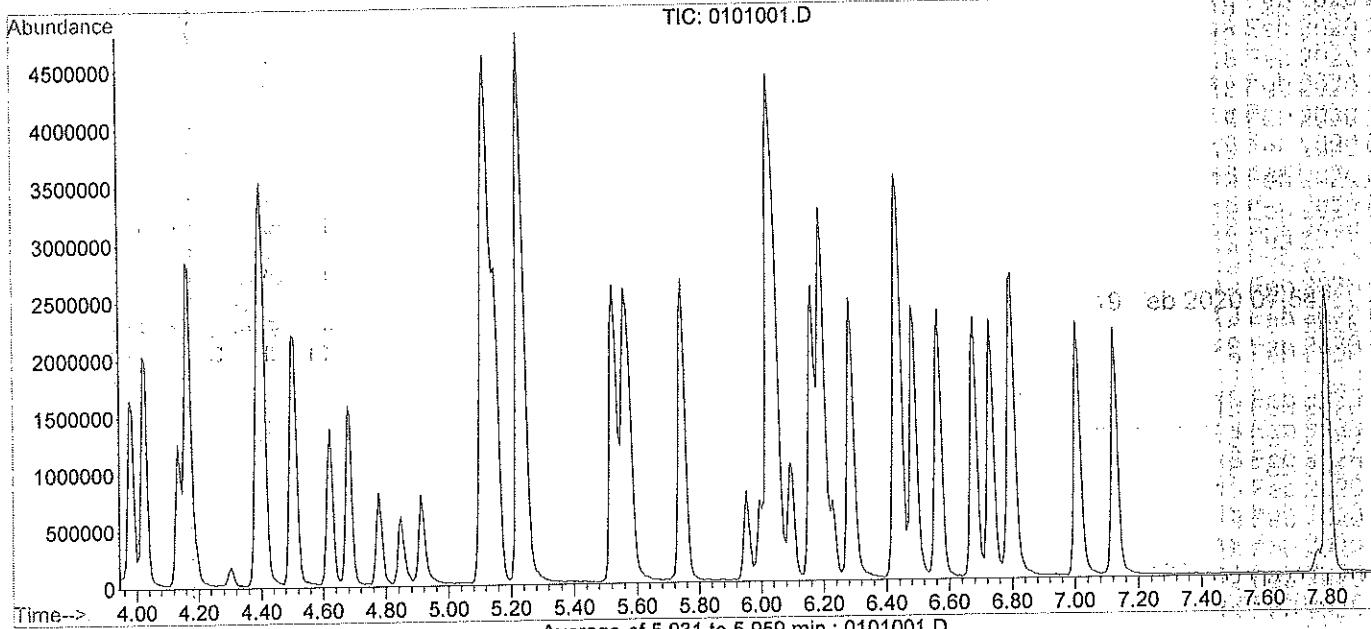
## 8260 VOC Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

BFB

Data File : C:\HPCHEM\1\DATA\021820\0101001.D  
 Acq On : 18 Feb 2020 4:53 pm  
 Sample : BFB TUNE  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :

Vial: 1  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00



Spectrum Information: Average of 5.931 to 5.959 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.8	24448	PASS
75	95	30	60	51.6	45434	PASS
95	95	100	100	100.0	87973	PASS
96	95	5	9	5.8	5145	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	58.0	51057	PASS
175	174	5	9	8.5	4353	PASS
176	174	95	101	95.2	48631	PASS
177	176	5	9	6.6	3211	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\021820\0201002.D  
 Acq On : 18 Feb 2020 5:10 pm  
 Sample : CCV 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E

Vial: 2  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Fluorobenzene (IS)	1.000	1.000	0.0	96	0.00
2	Dichlorodifluoromethane	1.836	1.626	11.4	79	0.00
3	Chloromethane	1.722	1.594	7.4	84	0.00
4	Vinyl Chloride (CCC)	1.483	1.438	3.0	89	0.00
5	Bromomethane	0.960	0.925	3.6	88	0.00
6	Chloroethane	0.499	0.509	-2.0	90	0.00
7	Acrolein	0.491	0.435	11.4	90	0.00
8	Trichlorofluoromethane	1.272	1.287	-1.2	93	0.00
9	Acetone	0.091	0.084	7.7	83	0.00
10	1,1-Dichloroethene	1.201	1.117	7.0	88	0.00
11	Acrylonitrile	1.046	1.084	-3.6	93	0.00
12	Iodomethane	1.148	1.151	-0.3	91	0.00
13	Methylene Chloride	1.165	1.100	5.6	90	0.00
14	Carbon Disulfide	2.570	2.436	5.2	89	0.00
15	trans-1,2-Dichloroethene	0.657	0.641	2.4	93	0.00
16	Methyl-tert-butyl ether (MT)	0.731	0.779	-6.6	103	0.00
17	1,1-Dichloroethane	1.298	1.201	7.5	85	0.00
18	Vinyl Acetate	1.155	1.215	-5.2	100	0.00
19	n-Hexane	0.743	0.759	-2.2	96	0.00
20	n-Butanol	0.263	0.261	0.8	96	0.00
21	2-Butanone (MEK)	0.175	0.167	4.6	95	0.00
22	cis-1,2-Dichloroethene	0.957	0.933	2.5	93	0.00
23	Bromochloromethane	0.295	0.292	1.0	90	0.00
24	Chloroform	1.358	1.298	4.4	90	0.00
25	2,2-Dichloropropane	0.956	0.952	0.4	91	0.00
26 S	Dibromofluoromethane (SURR)	0.355	0.347	2.3	93	0.00
27 S	1,2-Dichloroethane-d4 (SURR)	0.443	0.481	-8.6	106	0.00
28	1,2-Dichloroethane	1.173	1.225	-4.4	97	0.00
29	1,1,1-Trichloroethane	1.063	0.963	9.4	87	0.00
30	1,1-Dichloropropene	1.009	0.951	5.7	89	0.00
31	Carbon Tetrachloride	1.026	0.945	7.9	85	0.00
32	Benzene	2.590	2.603	-0.5	95	0.00
33	Dibromomethane	0.515	0.541	-5.0	102	0.00
34	1,2-Dichloropropane	0.766	0.788	-2.9	93	0.00
35	Trichloroethene	0.758	0.751	0.9	91	0.00
36	Bromodichloromethane	1.205	1.189	1.3	92	0.00
37	2-Chloroethyl-vinyl-ether	0.190	0.195	-2.6	110	0.00
38	cis-1,3-Dichloropropene	1.126	1.137	-1.0	97	0.00
39	4-Methyl-2-Pentanone (MIBK)	0.467	0.460	1.5	105	0.00
40	trans-1,3-Dichloropropene	1.049	0.977	6.9	93	0.00
41	1,1,2-Trichloroethane	0.481	0.522	-8.5	103	0.00
42 S	Toluene-d8 (SURR)	0.872	0.962	-10.3	97	0.00
43	Toluene	2.485	2.483	0.1	95	0.00
44	Ethyl Methacrylate	0.572	0.554	3.1	98	0.00
45	1,3-Dichloropropane	0.866	0.876	-1.2	97	0.00
46	2-Hexanone	0.302	0.307	-1.7	111	0.00
47	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	96	0.00
48	Dibromochloromethane	1.122	1.114	0.7	96	0.00
49	1,2-Dibromoethane (EDB)	0.867	0.869	-0.2	97	0.00
50	Tetrachloroethene (PCE)	0.866	0.831	4.0	94	0.00
51	1,1,1,2-Tetrachloroethane	0.980	0.883	9.9	89	0.00
52	Chlorobenzene	2.598	2.482	4.5	93	0.00
53	Ethylbenzene	4.261	3.986	6.5	89	0.00
54	m,p-Xylene	3.268	3.172	2.9	91	0.00
55	o-Xylene	3.311	2.785	15.9	86	0.00
56	Bromoform	0.520	0.542	-4.2	102	0.00
57	Styrene	2.357	2.347	0.4	92	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\021820\0201002.D  
 Acq On : 18 Feb 2020 5:10 pm  
 Sample : CCV 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Page

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
58	1.1.2.2-Tetrachloroethane	0.928	0.918	1.1	103	0.00
59	trans-1,4-Dichloro-2-butene	0.249	0.248	0.4	94	0.00
60	1,2,3-Trichloropropane	0.748	0.844	-12.8	105	0.00
61	Isopropylbenzene	3.311	3.400	-2.7	92	0.00
62 S	4-Bromofluorobenzene (SURR)	0.510	0.553	-8.4	101	0.00
63	Bromobenzene	0.976	0.931	4.6	92	0.00
64	n-Propylbenzene	4.736	4.491	5.2	91	0.00
65	2-Chlorotoluene	3.212	3.254	-1.3	95	0.00
66	4-Chlorotoluene	0.868	0.887	-2.2	91	0.00
67	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	99	0.00
68	1,3,5-Trimethylbenzene	3.597	3.088	14.2	89	0.00
69	tert-Butylbenzene	3.373	2.952	12.5	89	0.00
70	1,2,4-Trimethylbenzene	3.431	3.037	11.5	92	0.00
71	sec-Butylbenzene	4.356	3.832	12.0	92	0.00
72	1,3-Dichlorobenzene	1.996	1.832	8.2	100	0.00
73	1,4-Dichlorobenzene	1.327	1.173	11.6	96	0.00
74	p-Isopropyltoluene	2.986	2.940	1.5	97	0.00
75	1,2-Dichlorobenzene	1.874	1.679	10.4	96	0.00
76	n-Butylbenzene	3.234	3.058	5.4	92	0.00
77	1,2-Dibromo-3-chloropropane	0.064	0.069	-7.8	98	0.00
78	1,2,4-Trichlorobenzene	0.718	0.741	-3.2	101	0.00
79	Naphthalene	1.022	1.038	-1.6	101	0.00
80	Hexachloro-1,3-butadiene	0.305	0.296	3.0	100	0.00
81	1,2,3-Trichlorobenzene	0.571	0.639	-11.9	117	0.00
82	1-Methylnapthalene	0.136	0.157	-15.4	99	0.00
83	2-Methylnapthalene	0.117	0.122	-4.3	98	-0.01



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0201002.D  
 Acq On : 18 Feb 2020 5:10 pm  
 Sample : CCV 50PPB  
 Misc : QC

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 7:44 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6310296	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4351501	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	3718920	50.00	ug/L	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	2.87	113	2188731	48.79	ug/L	0.00
Spiked Amount	50.000	Range 74 - 132	Recovery =	97.58%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3035253	54.32	ug/L	0.00
Spiked Amount	50.000	Range 77 - 134	Recovery =	108.64%		
42) Toluene-d8 (SURR)	4.14	98	6072110	55.17	ug/L	0.00
Spiked Amount	50.000	Range 67 - 130	Recovery =	110.34%		
62) 4-Bromofluorobenzene (SURR)	5.95	95	2406371	54.20	ug/L	0.00
Spiked Amount	50.000	Range 65 - 133	Recovery =	108.40%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	10262993	44.29	ug/L	
3) Chloromethane	1.15	50	10058159	46.29	ug/L	99
4) Vinyl Chloride (CCC)	1.20	62	9073068	48.49	ug/L	91
5) Bromomethane	1.38	94	5836503	48.16	ug/L #	78
6) Chloroethane	1.45	64	3214587	51.02	ug/L	93
7) Acrolein	2.16	56	2741930	44.28	ug/L #	99
8) Trichlorofluoromethane	1.52	101	8120737	50.59	ug/L	
9) Acetone	2.07	43	1332662	115.59	ug/L	
10) 1,1-Dichloroethene	1.77	61	7048398	46.49	ug/L	
11) Acrylonitrile	2.40	53	6841513	51.81	ug/L	
12) Iodomethane	1.84	142	7265643	50.13	ug/L	
13) Methylene Chloride	2.04	49	6943259	47.21	ug/L #	79
14) Carbon Disulfide	1.79	76	15369336	47.39	ug/L	
15) trans-1,2-Dichloroethene	2.12	96	4047690	48.84	ug/L	98
16) Methyl-tert-butyl ether (M)	2.17	73	4915106	53.31	ug/L	95
17) 1,1-Dichloroethane	2.41	63	7577625	46.26	ug/L	98
18) Vinyl Acetate	2.51	43	7666743	52.59	ug/L	99
19) n-Hexane	2.16	57	4787411	51.06	ug/L	96
20) n-Butanol	2.51	57	1644244	49.59	ug/L	99
21) 2-Butanone (MEK)	2.93	43	2626744	119.08	ug/L	99
22) cis-1,2-Dichloroethene	2.66	61	5887843	48.76	ug/L	97
23) Bromochloromethane	2.76	128	1845460m	49.53	ug/L	
24) Chloroform	2.78	83	8188548	47.77	ug/L	97
25) 2,2-Dichloropropane	2.71	77	6008176	49.80	ug/L	98
28) 1,2-Dichloroethane	3.17	62	7731907	52.25	ug/L	97
29) 1,1,1-Trichloroethane	2.89	97	6075559	45.27	ug/L	97
30) 1,1-Dichloropropene	2.95	75	6002894	47.16	ug/L	98
31) Carbon Tetrachloride	2.86	117	5965280	46.07	ug/L	96
32) Benzene	3.08	78	16423057	50.24	ug/L	99
33) Dibromomethane	3.59	93	3413806	52.53	ug/L	94
34) 1,2-Dichloropropane	3.65	63	4971837	51.40	ug/L	99
35) Trichloroethene	3.37	95	4742148	49.56	ug/L	97
36) Bromodichloromethane	3.67	83	7500781	49.32	ug/L	99
37) 2-Chloroethyl-vinyl-ether	3.98	63	4911611	204.98	ug/L	
38) cis-1,3-Dichloropropene	4.03	75	7175243	50.49	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	4.38	43	7253873m	123.15	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	6166710	46.60	ug/L	97
41) 1,1,2-Trichloroethane	4.51	83	3294567	54.23	ug/L	95
43) Toluene	4.17	91	15669272	49.95	ug/L	99
44) Ethyl Methacrylate	4.50	69	3494801	48.38	ug/L	94
45) 1,3-Dichloropropane	4.68	76	5528962	50.57	ug/L	99
46) 2-Hexanone	4.91	43	4843424	127.00	ug/L	
48) Dibromochloromethane	4.62	129	4849288	49.67	ug/L	97
49) 1,2-Dibromoethane (EDB)	4.78	107	3781170	50.08	ug/L	99

(#) = qualifier out of range (m) = manual integration  
 0201002.D 021020RC.M Fri Feb 28 10:54:09 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0201002.D  
 Acq On : 18 Feb 2020 5:10 pm  
 Sample : CCV 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 7:44 2020

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	3614032	47.97 ug/L	95
51) 1,1,1,2-Tetrachloroethane	5.16	131	3842983	45.06 ug/L	89
52) Chlorobenzene	5.12	112	10800207	47.77 ug/L	99
53) Ethylbenzene	5.13	91	17347118	46.78 ug/L	99
54) m,p-Xylene	5.23	91	27602489	97.05 ug/L	99
55) o-Xylene	5.53	91	12119362	42.06 ug/L #	91
56) Bromoform	5.58	173	2360022	52.10 ug/L #	98
57) Styrene	5.56	104	10213817	49.79 ug/L	99
58) 1,1,2,2-Tetrachloroethane	6.10	83	3996286	49.49 ug/L	98
59) trans-1,4-Dichloro-2-buten	6.23	53	1079457	49.72 ug/L	95
60) 1,2,3-Trichloropropane	6.19	75	3671665m	56.41 ug/L	
61) Isopropylbenzene	5.75	105	14796521	51.35 ug/L	100
63) Bromobenzene	6.03	156	4049114	47.69 ug/L	96
64) n-Propylbenzene	6.05	91	19541247	47.41 ug/L	99
65) 2-Chlorotoluene	6.16	91	14157754	50.65 ug/L	98
66) 4-Chlorotoluene	6.29	126	3861456	51.12 ug/L	93
68) 1,3,5-Trimethylbenzene	6.19	105	11484879	42.93 ug/L	94
69) tert-Butylbenzene	6.43	119	10979225	43.76 ug/L	99
70) 1,2,4-Trimethylbenzene	6.49	105	11295484	44.26 ug/L #	95
71) sec-Butylbenzene	6.57	105	14249301	43.98 ug/L #	99
72) 1,3-Dichlorobenzene	6.73	146	6812319	45.89 ug/L	97
73) 1,4-Dichlorobenzene	6.80	148	4360999	44.18 ug/L	95
74) p-Isopropyltoluene	6.68	119	10932449	49.22 ug/L	100
75) 1,2-Dichlorobenzene	7.13	146	6244766	44.81 ug/L	99
76) n-Butylbenzene	7.01	91	11373523	47.29 ug/L	98
77) 1,2-Dibromo-3-chloropropan	7.77	155	256509	54.29 ug/L	88
78) 1,2,4-Trichlorobenzene	8.33	180	2756699	51.60 ug/L	97
79) Naphthalene	8.60	128	3860542	50.79 ug/L	
80) Hexachloro-1,3-butadiene	8.31	225	1100367	48.57 ug/L	98
81) 1,2,3-Trichlorobenzene	8.76	180	2375173	55.91 ug/L	99
82) 1-Methylnaphthalene	9.63	142	583270	57.54 ug/L	
83) 2-Methylnaphthalene	9.50	142	452796	52.16 ug/L	

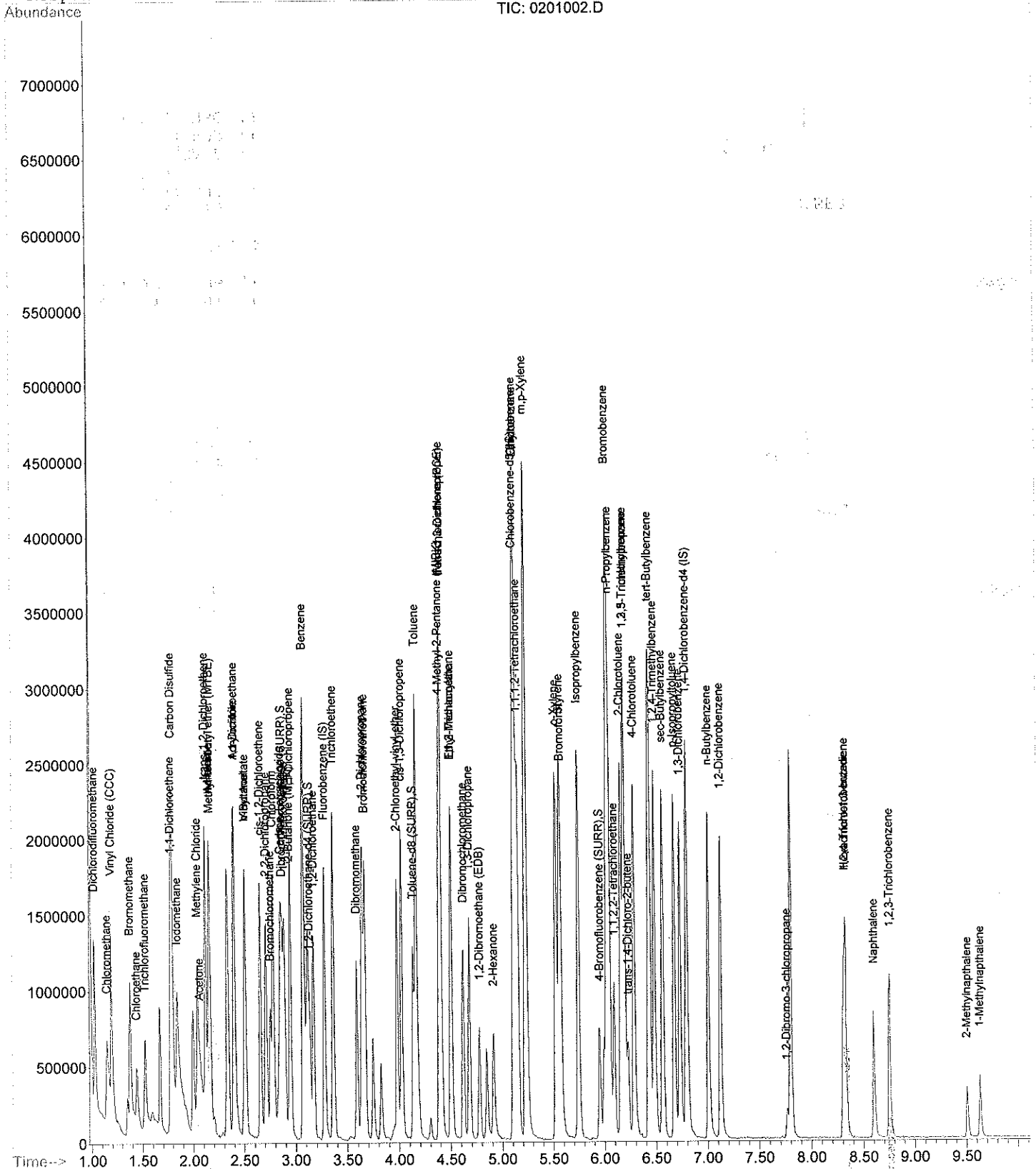
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\0201002.D  
Acq On : 18 Feb 2020 5:10 pm  
Sample : CCV 50PPB  
Misc : QC  
MS Integration Params: EVENTS.E  
Quant Time: Feb 19 7:44 2020

Vial: 2  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



GC/MS QA-QC CHECK REPORT

Tune File: C:\HPCHEM\1\DATA\021820\0201002.D

Tune Time: 18-Feb-20 5:10 PM

6310296 4351501 3718920

FILE	SAMPLE	SURROGATE RECOVERY %				INTERNAL STANDARD RESPONSES		
		105	106	102	102	8323738	4862960	2808985
0601006.D	MB	105	106	102	102	8323738	4862960	2808985
0301003.D	LCS 50PPB	101	108	107	106	6555159	4372851	3833448
0401004.D	LCSD 50PPB	94	98	105	107	6659238	4681806	3699925
0701007.D	20-2260	101	98	87	101	6940506	4215492	2205591

\* - fails criteria

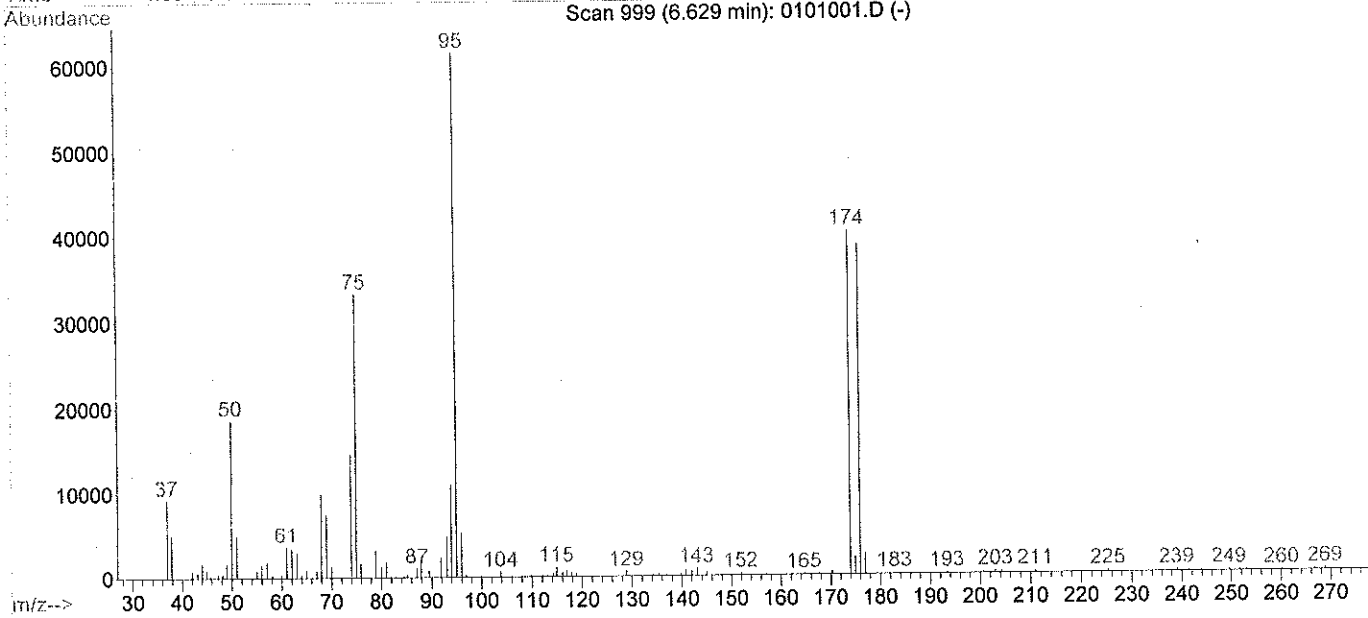
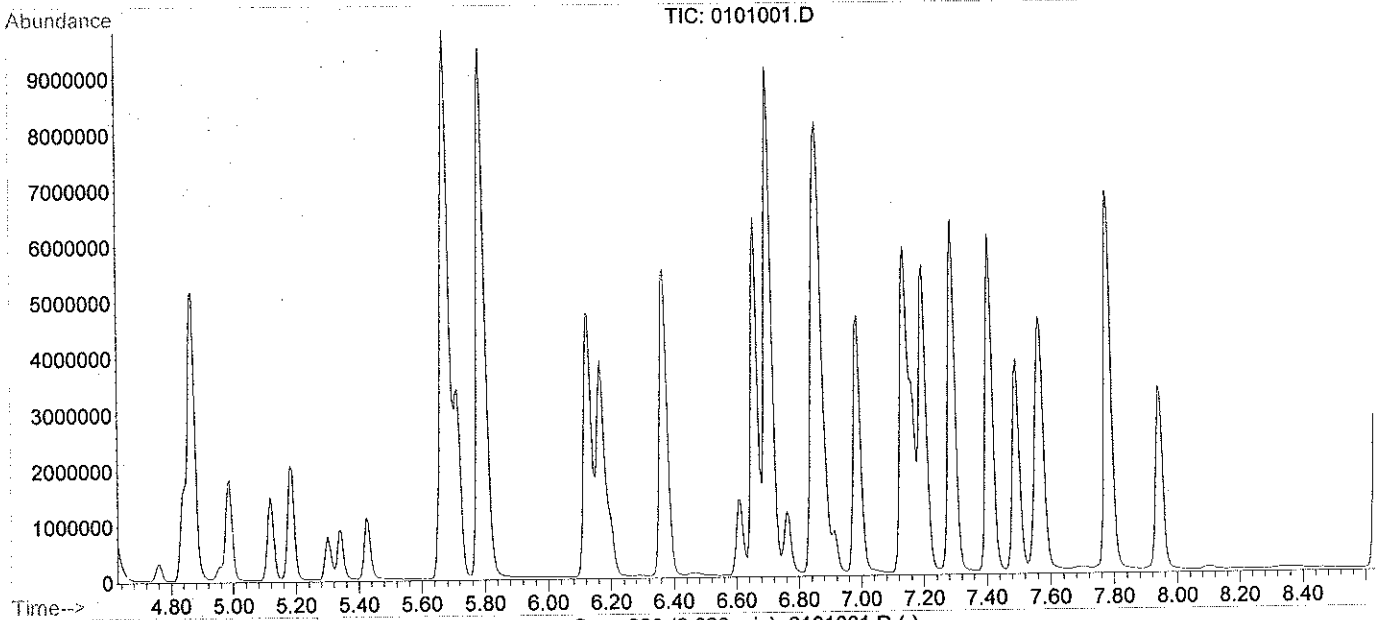
t - fails 1      Tues.    25-Feb    8:09:00    2020

Created:

BFB

Data File : C:\HPCHEM\1\DATA\021820\0101001.D  
Acq On : 18 Feb 2020 2:19 pm  
Sample : BFB/CCV 50ppb  
Misc : 092319 VOCl curve, 8260 ical  
MS Integration Params: rteint.p  
Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration

Vial: 1  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00



Spectrum Information: Scan 999

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.3	18613	PASS
75	95	30	60	54.2	33290	PASS
95	95	100	100	100.0	61424	PASS
96	95	5	9	8.6	5280	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.6	40304	PASS
175	174	5	9	5.2	2084	PASS
176	174	95	101	96.1	38752	PASS
177	176	4	9	6.5	2513	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\021820\0301003.D  
 Acq On : 18 Feb 2020 2:52 pm  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Fluorobenzene (IS)	1.000	1.000	0.0	106	0.00
2	Dichlorodifluoromethane	1.984	1.548	12.0	89	0.00
3	Chloromethane	1.201	1.108	7.7	95	0.00
4 m	Vinyl Chloride*	1.372	1.515	-10.4	99	0.00
5	Bromomethane	1.634	1.595	2.4	99	0.00
6	Chloroethane	0.953	0.970	-1.8	95	0.00
7	Acrolein	1.142	1.271	-11.3	109	0.00
8	Trichlorofluoromethane	4.108	4.145	-0.9	96	0.00
9	Acetone	0.303	0.303	0.0	95	0.00
10 m	1,1-Dichloroethene*	3.170	3.321	-4.8	109	0.00
11	Acrylonitrile	3.549	3.697	-4.2	108	0.00
12	Iodomethane	1.364	1.419	-4.0	104	0.00
13	Methylene Chloride	1.333	1.572	-17.9	120	0.00
14	Carbon Disulfide	2.105	2.283	-8.5	110	0.00
15 m	trans-1,2-Dichloroethene*	1.237	1.445	-16.8	116	0.00
16 m	Methyl-tert-butyl ether* (M	2.871	2.815	2.0	97	0.00
17 m	1,1-Dichloroethane*	3.665	4.116	-12.3	117	0.00
18	Vinyl Acetate	2.200	2.417	-9.9	98	0.00
19	N-Hexane	2.190	2.523	-15.2	115	0.00
20	N-Butanol	1.125	1.320	-17.3	120	0.00
21	2-Butanone (MEK)	0.322	0.358	-11.2	113	0.00
22 m	cis-1,2-Dichloroethene*	2.232	2.131	4.5	96	0.00
23	Bromochloromethane	0.339	0.370	-9.1	107	0.00
24 m	Chloroform*	2.972	3.491	-17.5	119	0.00
25	2-2-Dichloropropane	3.066	3.531	-15.2	116	0.00
26 s	Dibromofluoromethane (SURR)	0.371	0.369	0.5	98	0.00
27 s	1,2-Dichloroethane-d4 (SURR)	0.518	0.518	0.0	96	0.00
28	1,2-Dichloroethane	2.413	2.616	-8.4	108	0.00
29 m	1,1,1-Trichloroethane*	3.102	3.575	-15.2	116	0.00
30	1,1-Dichloropropene	1.985	2.120	-6.8	107	0.00
31	Carbon Tetrachloride	2.826	3.242	-14.7	117	0.00
32 m	Benzene*	3.609	3.996	-10.7	112	0.00
33	Dibromomethane	0.708	0.718	-1.4	100	0.00
34	1,2-Dichloropropane	0.990	1.149	-16.1	115	0.00
35 m	Trichloroethene*	1.349	1.441	-6.8	107	0.00
36	Bromodichloromethane	2.055	2.226	-8.3	108	0.00
37	2-Chloroethyl-vinyl ether	0.248	0.257	-3.6	101	0.00
38	cis-1,3-Dichloropropene	1.583	1.759	-11.1	109	0.00
39	4-Methyl-2-Pentanone (MIBK)	0.725	0.742	-2.3	93	0.00
40	trans-1,3-Dichloropene	1.505	1.569	-4.3	101	0.00
41	1,1,2-Trichloroethane	0.568	0.568	0.0	95	0.00
42 s	Toluene-d8 (SURR)	0.963	0.978	-1.6	100	0.00
43 m	Toluene*	4.276	4.488	-5.0	106	0.00
44	Ethyl Methacrylate	0.136	0.150	-10.3	110	0.00
45	1,3-Dichloropropane	1.189	1.257	-5.7	101	0.00
46	2-Hexanone	0.492	0.534	-8.5	100	0.00
47	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	131	0.00
48	Dibromochloromethane	1.241	1.281	-3.2	127	0.00
49	1,2-Dibromoethane (EDB)	0.935	0.954	-2.0	125	0.00
50	Tetrachloroethene	1.107	1.260	-13.8	148	0.00
51 m	1,1,1,2-Tetrachloroethane*	1.192	1.255	-5.3	131	0.00
52 m	Chlorobenzene*	3.444	3.868	-12.3	145	0.00
53 m	Ethyl Benzene*	7.580	8.480	-11.9	133	0.00
54	m,p-Xylene	6.053	6.747	-11.5	132	0.00
55 m	o-Xylene*	2.136	2.368	-10.9	135	0.00
56	Bromoform	0.546	0.557	-2.0	124	-0.01
57	Styrene	3.206	3.710	-15.7	142	0.00
58	1,1,2,2-Tetrachloroethane	0.660	0.655	0.8	123	0.00
59	trans-1,4-Dichloro-2-butene	0.432	0.406	6.0	112	-0.01
60	1,2,3-Trichloropropane	1.388	1.433	-3.2	116	-0.01
61	Isopropylbenzene	6.963	6.976	-0.2	114	0.00

62 s	4-Bromofluorobenzene (SURR)	0.658	0.699	-6.2	132	0.00
63	Bromobenzene	1.020	1.142	-12.0	138	-0.01
64 m	N-Propylbenzene*	9.982	10.602	-6.2	127	0.00
65	2-Chlorotoluene	6.588	6.633	-0.7	122	0.00
66	4-Chlorotoluene	1.208	1.272	-5.3	126	0.00
67	1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	138	0.00
68	1,3,5-Trimethylbenzene	15.265	14.884	2.5	127	0.00
69	tert-butylbenzene	13.587	13.701	-0.8	135	-0.01
70	1,2,4-Trimethylbenzene	14.962	15.065	-0.7	128	-0.01
71	sec-Butylbenzene	20.009	21.046	-5.2	133	-0.01
72	1,3-Dichlorobenzene	4.929	5.070	-2.9	138	0.00
73	1,4-Dichlorobenzene	3.116	3.095	0.7	135	0.00
74	p-Isopropyltoluene	14.950	15.347	-2.7	132	0.00
75	1,2-Dichlorobenzene	4.219	4.322	-2.4	138	-0.01
76	N-Butylbenzene	18.989	18.987	0.0	127	-0.01
77	1,2-Dibromo-3-chloropropane	0.211	0.186	11.8	112	0.00
78	1,2,4-Trichlorobenzene	3.015	3.043	-0.9	134	0.00
79	Naphthalene	4.470	4.907	-9.8	134	-0.01
80	Hexachloro-1,3-butadiene	1.827	1.726	5.5	126	-0.01
81	1,2,3-Trichlorobenzene	2.450	2.426	1.0	128	0.00
82	1-Methylnaphthalene	1.692	2.010	-18.8	138	-0.01
83	2-Methylnaphthalene	2.189	2.409	-10.1	136	-0.01

(#) = Out of Range

0501005.D 011820RC.M

SPCC's out = 0 CCC's out = 0

Tue Feb 25 15:23:44 2020 GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0301003.D  
 Acq On : 18 Feb 2020 2:52 pm  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 9:56 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	578282	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	552646	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.55	152	248153	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	213222	49.74	ppb	0.00
Spiked Amount 50.000	Range 54 - 140		Recovery =	99.48%		
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	299352	49.99	ppb	0.00
Spiked Amount 50.000	Range 54 - 138		Recovery =	99.98%		
42) Toluene-d8 (SURR)	4.57	98	565358	50.76	ppb	0.00
Spiked Amount 50.000	Range 61 - 127		Recovery =	101.52%		
62) 4-Bromofluorobenzene (SURR)	6.61	95	386355	53.16	ppb	0.00
Spiked Amount 50.000	Range 69 - 131		Recovery =	106.32%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	895426	39.02	ppb	
3) Chloromethane	1.41	50	640477	46.11	ppb	# 95
4) Vinyl Chloride*	1.45	62	876344	55.23	ppb	97
5) Bromomethane	1.63	94	922469	48.81	ppb	98
6) Chloroethane	1.70	64	560983	50.90	ppb	100
7) Acrolein	2.40	56	735138	55.67	ppb	99
8) Trichlorofluoromethane	1.77	101	2396942	50.44	ppb	98
9) Acetone	2.32	43	438570m	125.31	ppb	
10) 1,1-Dichloroethene*	2.02	61	1920230	52.38	ppb	97
11) Acrylonitrile	2.66	53	2137773	52.08	ppb	98
12) Iodomethane	2.11	142	820839	52.05	ppb	
13) Methylene Chloride	2.30	84	908823	58.94	ppb	90
14) Carbon Disulfide	2.05	76	1320460	54.25	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	835829	58.42	ppb	95
16) Methyl-tert-butyl ether* (	2.42	73	1627920	49.03	ppb	
17) 1,1-Dichloroethane*	2.68	63	2379933	56.14	ppb	99
18) Vinyl Acetate	2.78	43	1397927	54.95	ppb	
19) N-Hexane	2.40	57	1458782	57.60	ppb	97
20) N-Butanol	2.77	57	763055	58.64	ppb	99
21) 2-Butanone (MEK)	3.24	43	517216	138.73	ppb	
22) cis-1,2-Dichloroethene*	2.94	61	1232214	47.73	ppb	
23) Bromochloromethane	3.05	128	213730	54.45	ppb	
24) Chloroform*	3.08	83	2019019	58.73	ppb	99
25) 2-2-Dichloropropane	3.00	77	2042071	57.59	ppb	98
28) 1,2-Dichloroethane	3.51	62	1512588	54.21	ppb	96
29) 1,1,1-Trichloroethane*	3.20	97	2067618	57.63	ppb	97
30) 1,1-Dichloropropene	3.26	75	1225996	53.41	ppb	
31) Carbon Tetrachloride	3.16	117	1874602	57.36	ppb	100
32) Benzene*	3.40	78	2310611	55.35	ppb	
33) Dibromomethane	3.97	93	415043	50.66	ppb	
34) 1,2-Dichloropropane	4.03	63	664280	57.99	ppb	
35) Trichloroethene*	3.71	95	833416	53.42	ppb	
36) Bromodichloromethane	4.05	83	1287426	54.18	ppb	
37) 2-Chloroethyl-vinyl ether	4.39	63	594418	207.64	ppb	
38) cis-1,3-Dichloropropene	4.45	75	1017016	55.53	ppb	
39) 4-Methyl-2-Pentanone (MIBK)	4.84	43	1072954	127.93	ppb	
40) trans-1,3-Dichloropene	4.87	75	907515	52.13	ppb	
41) 1,1,2-Trichloroethane	4.98	83	328702	50.07	ppb	
43) Toluene*	4.60	91	2595457	52.48	ppb	
44) Ethyl Methacrylate	4.95	69	86912	55.42	ppb	
45) 1,3-Dichloropropane	5.18	76	727147	52.86	ppb	
46) 2-Hexanone	5.42	43	771336	135.51	ppb	
48) Dibromochloromethane	5.12	129	707705	51.59	ppb	99
49) 1,2-Dibromoethane (EDB)	5.30	107	527175	51.00	ppb	98



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0301003.D  
 Acq On : 18 Feb 2020 2:52 pm  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 9:56 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.86	166	696580	56.91	ppb	94
51) 1,1,1,2-Tetrachloroethane*	5.71	131	693353	52.63	ppb	97
52) Chlorobenzene*	5.67	112	2137889	56.16	ppb	89
53) Ethyl Benzene*	5.68	91	4686363	55.93	ppb	92
54) m,p-Xylene	5.79	91	7456970	111.45	ppb	95
55) o-Xylene*	6.12	106	1308729	55.45	ppb	88
56) Bromoform	6.19	173	307929	51.02	ppb	99
57) Styrene	6.17	104	2050264	57.86	ppb	90
58) 1,1,2,2-Tetrachloroethane	6.76	85	362069	49.67	ppb	100
59) trans-1,4-Dichloro-2-buten	6.91	53	224601	46.99	ppb	97
60) 1,2,3-Trichloropropane	6.88	75	791814	51.62	ppb	# 98
61) Isopropylbenzene	6.37	105	3855048	50.09	ppb	
63) Bromobenzene	6.70	156	631020	56.00	ppb	81
64) N-Propylbenzene*	6.70	91	5858988	53.10	ppb	98
65) 2-Chlorotoluene	6.85	91	3665918	50.34	ppb	97
66) 4-Chlorotoluene	6.98	126	703025	52.65	ppb	85
68) 1,3,5-Trimethylbenzene	6.87	105	3693521	48.75	ppb	95
69) tert-butylbenzene	7.13	119	3400012	50.42	ppb	92
70) 1,2,4-Trimethylbenzene	7.19	105	3738308	50.34	ppb	96
71) sec-Butylbenzene	7.29	105	5222525	52.59	ppb	99
72) 1,3-Dichlorobenzene	7.49	146	1258116	51.43	ppb	97
73) 1,4-Dichlorobenzene	7.57	148	768074	49.67	ppb	98
74) p-Isopropyltoluene	7.41	119	3808507	51.33	ppb	95
75) 1,2-Dichlorobenzene	7.94	146	1072445	51.22	ppb	96
76) N-Butylbenzene	7.78	91	4711661	49.99	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.67	155	46241	44.19	ppb	84
78) 1,2,4-Trichlorobenzene	9.30	180	755126	50.47	ppb	98
79) Naphthalene	9.60	128	1217810	54.90	ppb	99
80) Hexachloro-1,3-butadiene	9.26	225	428329	47.24	ppb	97
81) 1,2,3-Trichlorobenzene	9.78	180	601939	49.50	ppb	99
82) 1-Methylnaphthalene	10.76	142	498899	59.40	ppb	98
83) 2-Methylnaphthalene	10.61	142	597714	55.03	ppb	99

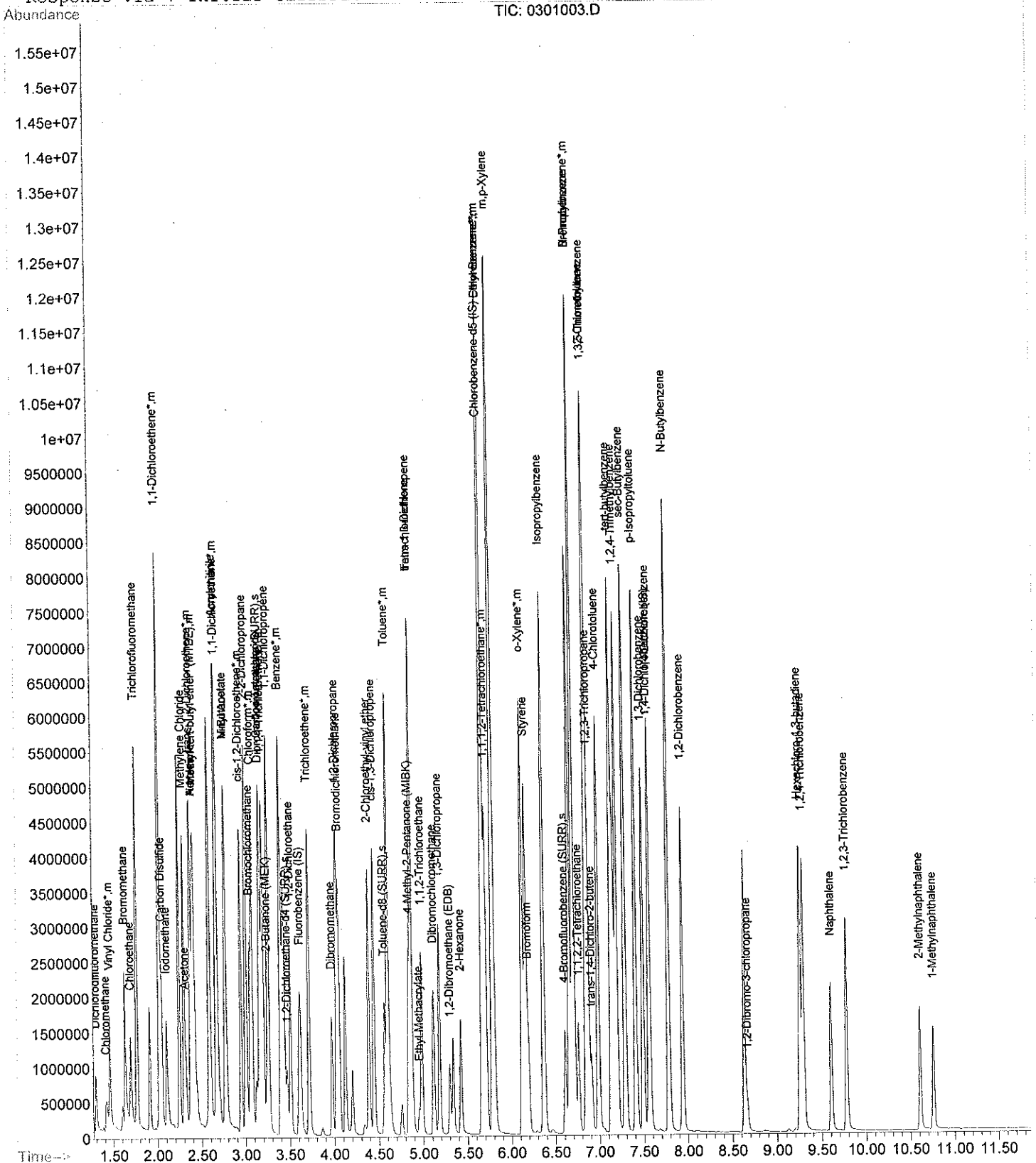
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\0301003.D  
Acq On : 18 Feb 2020 2:52 pm  
Sample : BFB/CCV 50ppb  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 9:56 2020

Vial: 3  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\021820\0301003.D  
 Tune Time : 18 Feb 2020 2:52 pm

Daily Calibration File : C:\HPCHEM\1\DATA\021820\0301003.D

File	Sample	Surrogate Recovery %				Internal Standard Responses		
		110	105	95	109	614646	572119	253256
0401004.D	LCS 50pp	110	105	95	109	614646	572119	253256
0501005.D	MB	97	105	105	88	865530	637294	226920
1901019.D	2261	105	98	104	90	929376	683608	236502
2001020.D	2262	103	98	108	87	872804	671515	252963
2101021.D	2262ms	101	108	101	112	584755	460629	194831
2201022.D	2262msd	93	110	106	93	688406	547934	357671
2301023.D	2263	109	99	108	86	871297	649386	227216
2401024.D	2264	112	104	100	85	877702	567477	184188
2501025.D	2265	107	102	102	86	839607	602956	215245
2601026.D	2266	110	104	107	85	750075	546336	182888
2701027.D	2267	96	114	103	89	764446	543297	184470
2801028.D	2268	101	109	105	86	637417	478021	155784
2901029.D	2269	116	110	110	88	670736	506170	175494
3001030.D	2270	116	117	104	89	620983	455025	152071
3101031.D	2271	111	103	101	87	592672	399523	118681
3201032.D	2272	106	102	104	87	576281	405543	115606
3301033.D	2273	102	104	102	91	598032	413791	127964

578282 552646 248153

t - fails 12hr time check \* - fails criteria

Created: Wed Feb 19 09:02:11 2020 VOC 1



ENVision Laboratories, Inc.  
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## 8260 VOC Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0601006.D  
 Acq On : 18 Feb 2020 6:20 pm  
 Sample : MB  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 7:42 2020

Vial: 6  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	8323738	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4862960	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	2808985	50.00	ug/L	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	2.87	113	3108703	52.53	ug/L	0.00
Spiked Amount	50.000	Range 74 - 132	Recovery =	105.06%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3918441	53.16	ug/L	0.00
Spiked Amount	50.000	Range 77 - 134	Recovery =	106.32%		
42) Toluene-d8 (SURR)	4.13	98	7408547	51.03	ug/L	0.00
Spiked Amount	50.000	Range 67 - 130	Recovery =	102.06%		
62) 4-Bromofluorobenzene (SURR)	5.95	95	2528206	50.95	ug/L	0.00
Spiked Amount	50.000	Range 65 - 133	Recovery =	101.90%		

Target Compounds

Qvalue

Quantitation Report

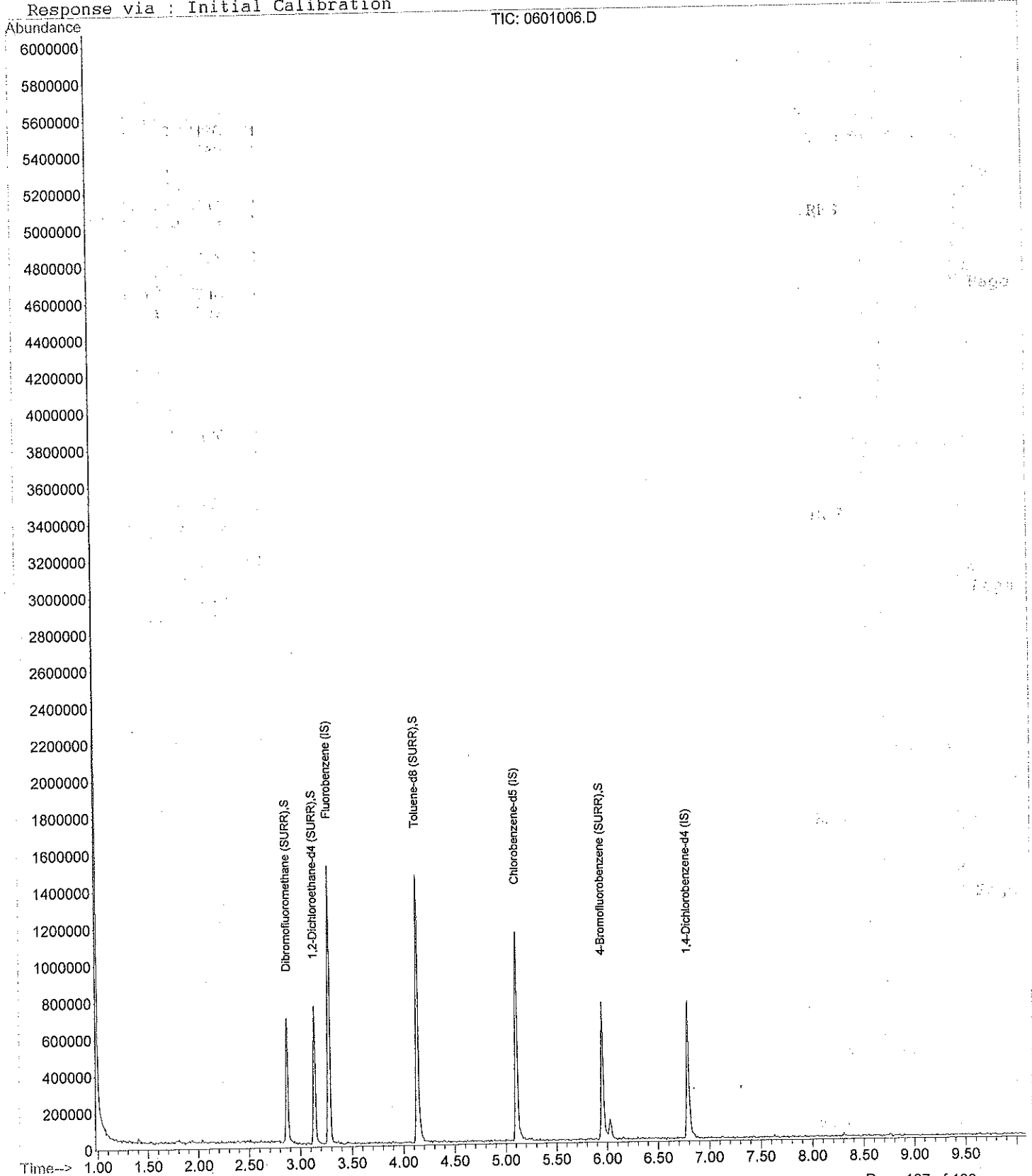
Data File : C:\HPCHEM\1\DATA\021820\0601006.D  
Acq On : 18 Feb 2020 6:20 pm  
Sample : MB  
Misc : QC  
MS Integration Params: EVENTS.E  
Quant Time: Feb 19 7:42 2020

Vial: 6  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0301003.D  
 Acq On : 18 Feb 2020 5:28 pm  
 Sample : LCS 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 7:46 2020

Vial: 3  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6555159	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4372851	50.00	ug/L	0.00
167) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	3833448	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.87	113	2343091	50.28	ug/L	0.00
Spiked Amount 50.000	Range 74 - 132		Recovery =	100.56%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3132805	53.97	ug/L	0.00
Spiked Amount 50.000	Range 77 - 134		Recovery =	107.94%		
142) Toluene-d8 (SURR)	4.14	98	6093670	53.29	ug/L	0.00
Spiked Amount 50.000	Range 67 - 130		Recovery =	106.58%		
62) 4-Bromofluorobenzene (SURR)	5.95	95	2357875	52.85	ug/L	0.00
Spiked Amount 50.000	Range 65 - 133		Recovery =	105.70%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	10619256	44.11	ug/L	95
3) Chloromethane	1.15	50	11193606	49.59	ug/L	97
4) Vinyl Chloride (CCC)	1.20	62	9539682	49.08	ug/L	97
5) Bromomethane	1.38	94	6277517	49.87	ug/L	94
6) Chloroethane	1.45	64	3228988	49.34	ug/L #	98
7) Acrolein	2.16	56	3052228	47.45	ug/L #	98
8) Trichlorofluoromethane	1.52	101	8486591	50.89	ug/L	99
9) Acetone	2.06	43	1499960	125.24	ug/L	99
10) 1,1-Dichloroethene	1.77	61	7516766	47.73	ug/L	99
11) Acrylonitrile	2.40	53	7107035	51.81	ug/L	99
12) Iodomethane	1.84	142	7696735	51.12	ug/L	99
13) Methylene Chloride	2.04	49	7252036	47.46	ug/L	99
14) Carbon Disulfide	1.80	76	16029483	47.58	ug/L	99
15) trans-1,2-Dichloroethene	2.12	96	4302179	49.97	ug/L	99
16) Methyl-tert-butyl ether (M)	2.17	73	5373797	56.10	ug/L	99
17) 1,1-Dichloroethane	2.41	63	8051715	47.32	ug/L	99
18) Vinyl Acetate	2.51	43	7956682	52.54	ug/L	99
19) n-Hexane	2.16	57	5023550	51.58	ug/L	99
20) n-Butanol	2.51	57	1908778	55.42	ug/L	99
21) 2-Butanone (MEK)	2.94	43	3054524	133.30	ug/L	99
22) cis-1,2-Dichloroethene	2.66	61	6194760	49.38	ug/L	99
23) Bromochloromethane	2.76	128	2009378	51.91	ug/L #	99
24) Chloroform	2.78	83	8524479	47.87	ug/L	99
25) 2,2-Dichloropropane	2.71	77	6271268	50.04	ug/L	99
28) 1,2-Dichloroethane	3.18	62	7940337	51.65	ug/L	99
29) 1,1,1-Trichloroethane	2.89	97	6452504	46.28	ug/L	99
30) 1,1-Dichloropropene	2.95	75	6380594	48.25	ug/L	99
31) Carbon Tetrachloride	2.86	117	6273391	46.64	ug/L	100
32) Benzene	3.08	78	16990346	50.03	ug/L	99
33) Dibromomethane	3.59	93	3570325	52.88	ug/L	99
34) 1,2-Dichloropropane	3.65	63	5397417	53.71	ug/L	99
35) Trichloroethene	3.37	95	4988176	50.19	ug/L	99
36) Bromodichloromethane	3.67	83	8175109	51.75	ug/L	99
37) 2-Chloroethyl-vinyl-ether	3.98	63	5183029	208.23	ug/L	99
38) cis-1,3-Dichloropropene	4.03	75	7987084	54.11	ug/L	99
39) 4-Methyl-2-Pentanone (MIBK)	4.38	43	7427987m	121.40	ug/L	99
40) trans-1,3-Dichloropropene	4.41	75	6699047	48.73	ug/L	99
41) 1,1,2-Trichloroethane	4.51	83	3420822	54.21	ug/L	99
43) Toluene	4.17	91	16503781	50.65	ug/L	99
44) Ethyl Methacrylate	4.50	69	3745396	49.92	ug/L	99
45) 1,3-Dichloropropane	4.68	76	6220192	54.77	ug/L	99
46) 2-Hexanone	4.91	43	4939052m	124.67	ug/L	99
48) Dibromochloromethane	4.62	129	5174791	52.74	ug/L	99
49) 1,2-Dibromoethane (EDB)	4.78	107	3942620	51.97	ug/L	99

(#) = qualifier out of range (m) = manual integration  
 0301003.D 021020RC.M Wed Feb 19 07:54:33 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0301003.D  
 Acq On : 18 Feb 2020 5:28 pm  
 Sample : LCS 50PPB  
 Misc : QC

Vial: 3  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 7:46 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

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Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	3694918	48.80	ug/L	100
51) 1,1,1,2-Tetrachloroethane	5.16	131	3998955	46.66	ug/L #	79
52) Chlorobenzene	5.12	112	11582026	50.98	ug/L	99
53) Ethylbenzene	5.13	91	18749398	50.32	ug/L	98
54) m,p-Xylene	5.23	91	28405011	99.38	ug/L	97
55) o-Xylene	5.53	91	13599148	46.96	ug/L	97
56) Bromoform	5.58	173	2461048	54.07	ug/L	96
57) Styrene	5.57	104	10827557	52.53	ug/L	99
58) 1,1,2,2-Tetrachloroethane	6.10	83	4296729	52.95	ug/L	98
59) trans-1,4-Dichloro-2-buten	6.23	53	1148862	52.65	ug/L	91
60) 1,2,3-Trichloropropane	6.20	75	3587717	54.85	ug/L	98
61) Isopropylbenzene	5.75	105	15479872	53.46	ug/L	99
62) Bromobenzene	6.03	156	4386691	51.41	ug/L	98
63) n-Propylbenzene	6.05	91	20642959	49.84	ug/L	98
64) n-Propylbenzene	6.16	91	14080950	50.13	ug/L	99
65) 2-Chlorotoluene	6.16	91	14080950	50.13	ug/L	81
66) 4-Chlorotoluene	6.29	126	3892716	51.28	ug/L	81
67) 1,3,5-Trimethylbenzene	6.20	105	11961746	43.38	ug/L	98
68) tert-Butylbenzene	6.43	119	11730671	45.36	ug/L	97
69) tert-Butylbenzene	6.49	105	12154033	46.20	ug/L #	95
70) 1,2,4-Trimethylbenzene	6.49	105	12154033	46.20	ug/L #	95
71) sec-Butylbenzene	6.57	105	14668737	43.92	ug/L #	100
72) 1,3-Dichlorobenzene	6.73	146	7284985	47.61	ug/L	95
73) 1,4-Dichlorobenzene	6.80	148	4735051	46.53	ug/L	94
74) p-Isopropyltoluene	6.68	119	10902482	47.62	ug/L	99
75) 1,2-Dichlorobenzene	7.13	146	6461269	44.98	ug/L	98
76) n-Butylbenzene	7.01	91	11478105	46.30	ug/L	97
77) 1,2-Dibromo-3-chloropropan	7.77	155	220433	45.26	ug/L	98
78) 1,2,4-Trichlorobenzene	8.33	180	3022222	54.88	ug/L	98
79) Naphthalene	8.60	128	3960781	50.55	ug/L	98
80) Hexachloro-1,3-butadiene	8.31	225	1150924	49.29	ug/L	92
81) 1,2,3-Trichlorobenzene	8.76	180	2478234	56.59	ug/L	97
82) 1-Methylnaphthalene	9.63	142	488035	46.71	ug/L	97
83) 2-Methylnaphthalene	9.51	142	395613	44.22	ug/L	97

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Quantitation Report

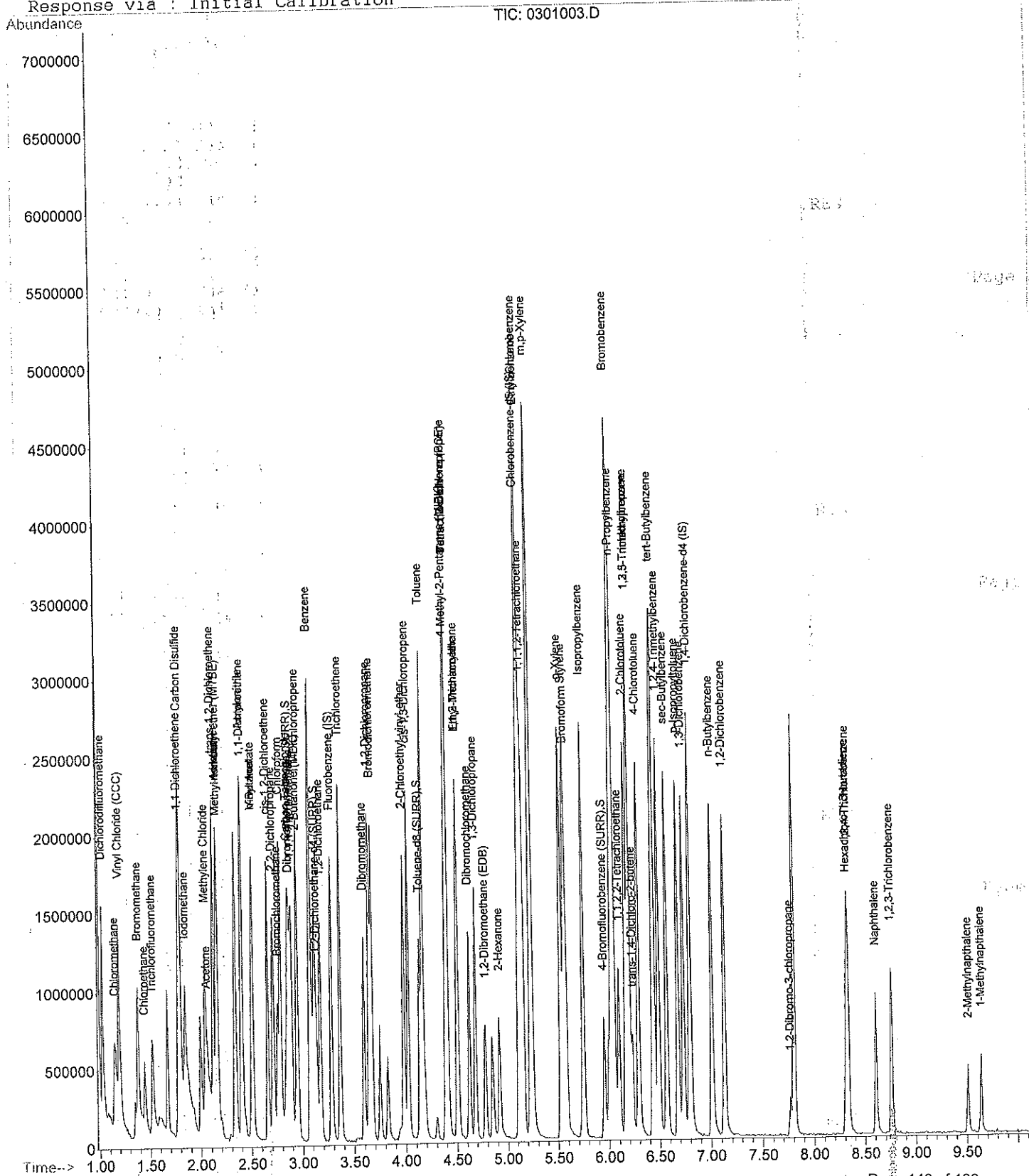
Data File : C:\HPCHEM\1\DATA\021820\0301003.D  
 Acq On : 18 Feb 2020 5:28 pm  
 Sample : LCS 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 7:46 2020

Vial: 3  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0401004.D  
 Acq On : 18 Feb 2020 5:45 pm  
 Sample : LCSD 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 9:33 2020

Vial: 4  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6659238	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4681806	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	3699925	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.87	113	2236167	47.23	ug/L	0.00
Spiked Amount	50.000	Range 74 - 132	Recovery =	94.46%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2894641	49.09	ug/L	0.00
Spiked Amount	50.000	Range 77 - 134	Recovery =	98.18%		
42) Toluene-d8 (SURR)	4.14	98	6121783	52.70	ug/L	0.00
Spiked Amount	50.000	Range 67 - 130	Recovery =	105.40%		
62) 4-Bromofluorobenzene (SURR)	5.95	95	2554434	53.48	ug/L	0.00
Spiked Amount	50.000	Range 65 - 133	Recovery =	106.96%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	12064261	49.33	ug/L	98
3) Chloromethane	1.15	50	10529821	45.92	ug/L	98
4) Vinyl Chloride (CCC)	1.19	62	9193042	46.56	ug/L	99
5) Bromomethane	1.38	94	6155046	48.13	ug/L	99
6) Chloroethane	1.45	64	2848502	42.84	ug/L #	89
7) Acrolein	2.16	56	2988772	45.74	ug/L #	99
8) Trichlorofluoromethane	1.52	101	8101690	47.82	ug/L	99
9) Acetone	2.07	43	1595829	131.16	ug/L	98
10) 1,1-Dichloroethene	1.78	61	7497533	46.86	ug/L	98
11) Acrylonitrile	2.40	53	6442259	46.23	ug/L	98
12) Iodomethane	1.85	142	7421041	48.52	ug/L	98
13) Methylene Chloride	2.05	49	7084302	45.64	ug/L	98
14) Carbon Disulfide	1.79	76	15476988	45.22	ug/L	98
15) trans-1,2-Dichloroethene	2.12	96	4102486	46.91	ug/L	91
16) Methyl-tert-butyl ether (M)	2.17	73	4985980	51.24	ug/L	99
17) 1,1-Dichloroethane	2.41	63	7731624	44.73	ug/L	99
18) Vinyl Acetate	2.51	43	7503206	48.77	ug/L	100
19) n-Hexane	2.16	57	4720434	47.71	ug/L	97
20) n-Butanol	2.51	57	1672596	47.80	ug/L	94
21) 2-Butanone (MEK)	2.94	43	2996366	128.72	ug/L	99
22) cis-1,2-Dichloroethene	2.66	61	5677384	44.55	ug/L	98
23) Bromochloromethane	2.75	128	1947745m	49.53	ug/L	95
24) Chloroform	2.78	83	7836301	43.32	ug/L	97
25) 2,2-Dichloropropane	2.71	77	5981991	46.99	ug/L	97
28) 1,2-Dichloroethane	3.18	62	7705138	49.34	ug/L	97
29) 1,1,1-Trichloroethane	2.89	97	6709534	47.38	ug/L	97
30) 1,1-Dichloropropene	2.95	75	6417650	47.78	ug/L	100
31) Carbon Tetrachloride	2.86	117	6235574	45.64	ug/L	98
32) Benzene	3.08	78	17002891	49.28	ug/L	100
33) Dibromomethane	3.59	93	3494835	50.96	ug/L	97
34) 1,2-Dichloropropane	3.65	63	5112466	50.08	ug/L	98
35) Trichloroethene	3.37	95	4801175	47.55	ug/L	99
36) Bromodichloromethane	3.67	83	7488150	46.66	ug/L	94
37) 2-Chloroethyl-vinyl-ether	3.99	63	5187777	205.16	ug/L	93
38) cis-1,3-Dichloropropene	4.03	75	7476395	49.86	ug/L	97
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	7591526	122.13	ug/L	97
40) trans-1,3-Dichloropropene	4.41	75	6612691	47.35	ug/L	92
41) 1,1,2-Trichloroethane	4.51	83	3385053	52.80	ug/L	97
43) Toluene	4.17	91	16592261	50.12	ug/L	97
44) Ethyl Methacrylate	4.50	69	3791654	49.74	ug/L	99
45) 1,3-Dichloropropane	4.69	76	6139132	53.21	ug/L	98
46) 2-Hexanone	4.91	43	5378965	133.65	ug/L	97
48) Dibromochloromethane	4.63	129	5098167	48.53	ug/L	98
49) 1,2-Dibromoethane (EDB)	4.78	107	3983743	49.04	ug/L	98

(#) = qualifier out of range (m) = manual integration  
 0401004.D 021020RC.M Wed Feb 19 09:33:58 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0401004.D  
 Acq On : 18 Feb 2020 5:45 pm  
 Sample : LCSD 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 9:33 2020

Vial: 4  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

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Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	4023383	49.63 ug/L	94
51) 1,1,1,2-Tetrachloroethane	5.16	131	4160325	45.34 ug/L #	84
52) Chlorobenzene	5.12	112	11799716	48.51 ug/L	99
53) Ethylbenzene	5.13	91	19407252	48.65 ug/L	99
54) m,p-Xylene	5.23	91	29241780	95.56 ug/L	98
55) o-Xylene	5.53	91	13827634	44.60 ug/L	98
56) Bromoform	5.58	173	2544266	52.21 ug/L	96S
57) Styrene	5.57	104	11504022	52.12 ug/L	99
58) 1,1,2,2-Tetrachloroethane	6.10	83	4507564	51.89 ug/L	97
59) trans-1,4-Dichloro-2-buten	6.23	53	1189647	50.93 ug/L	92
60) 1,2,3-Trichloropropane	6.20	75	3816350	54.50 ug/L	94
61) Isopropylbenzene	6.20	75	3816350	54.50 ug/L	94
62) 1,2,3-Trichloropropane	6.20	75	3816350	54.50 ug/L	94
63) Bromobenzene	6.03	156	4491419	50.84 ug/L	99
64) n-Propylbenzene	6.05	91	21207061	49.17 ug/L	98
65) 2-Chlorotoluene	6.17	91	14768343	47.82 ug/L	100
66) 4-Chlorotoluene	6.17	91	14768343	49.11 ug/L	99
67) 2-Chlorotoluene	6.29	126	4065787	50.03 ug/L	87
68) 1,3,5-Trimethylbenzene	6.20	105	12686204	47.67 ug/L	98
69) tert-Butylbenzene	6.43	119	11759574	47.11 ug/L	98
70) 1,2,4-Trimethylbenzene	6.49	105	12306967	48.47 ug/L #	100
71) sec-Butylbenzene	6.57	105	15152337	47.01 ug/L #	99
72) 1,3-Dichlorobenzene	6.74	146	6999313	47.40 ug/L	97
73) 1,4-Dichlorobenzene	6.74	146	6999313	47.40 ug/L	97
74) p-Isopropyltoluene	6.80	148	4829020	49.17 ug/L	95
75) 1,2-Dichlorobenzene	6.68	119	11107904	50.27 ug/L	100
76) n-Butylbenzene	7.13	146	6829956	49.26 ug/L	97
77) 1,2-Dibromo-3-chloropropan	7.01	91	11990599	50.11 ug/L	100
78) 1,2,4-Trichlorobenzene	7.77	155	210544	44.79 ug/L	98
79) Naphthalene	8.33	180	3087184	58.08 ug/L	98
80) Hexachloro-4,1,3-butadiene	8.33	128	3727895	49.30 ug/L	4
81) 1,2,3-Trichlorobenzene	8.60	128	3727895	49.30 ug/L	98
82) 1-Methylnaphthalene	8.32	225	1226245	54.41 ug/L	96
83) 2-Methylnaphthalene	8.76	180	2173763	51.43 ug/L	
	9.64	142	479081	47.51 ug/L	
	9.51	142	435186	50.39 ug/L	

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Quantitation Report

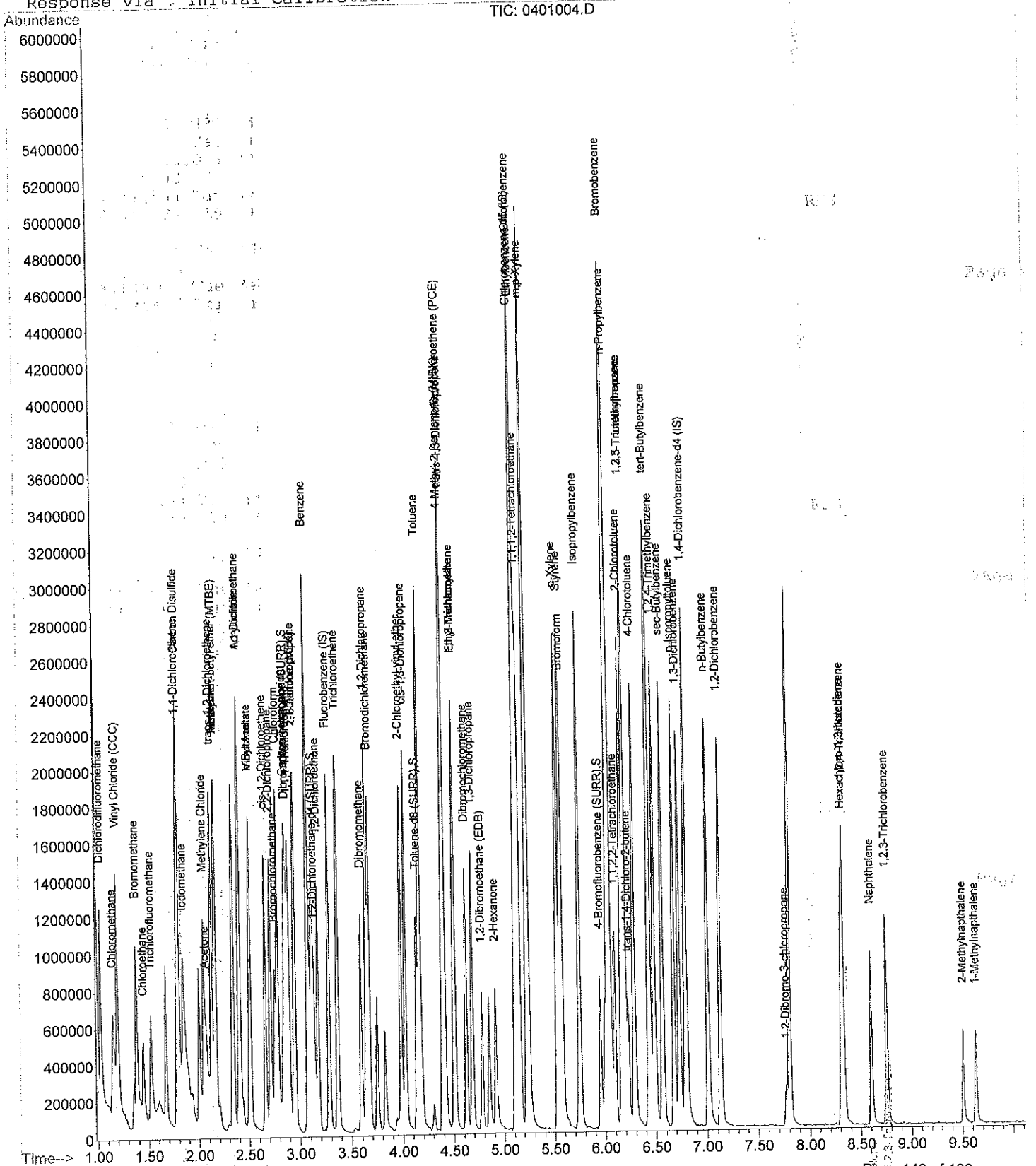
Data File : C:\HPCHEM\1\DATA\021820\0401004.D  
Acq On : 18 Feb 2020 5:45 pm  
Sample : LCSD 50PPB  
Misc : QC  
MS Integration Params: EVENTS.E  
Quant Time: Feb 19 9:33 2020

Vial: 4  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration

Page 1



Page 2

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0501005.D  
 Acq On : 18 Feb 2020 3:26 pm  
 Sample : MB  
 Misc : 092319. VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 18 16:02 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	865530	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	637294	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.56	152	226920	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	311486	48.55	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	97.10%		
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	468840	52.31	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	104.62%		
42) Toluene-d8 (SURR)	4.57	98	877824	52.66	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	105.32%		
62) 4-Bromofluorobenzene (SURR)	6.61	95	370373	44.19	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery =	88.38%		

Target Compounds Qvalue

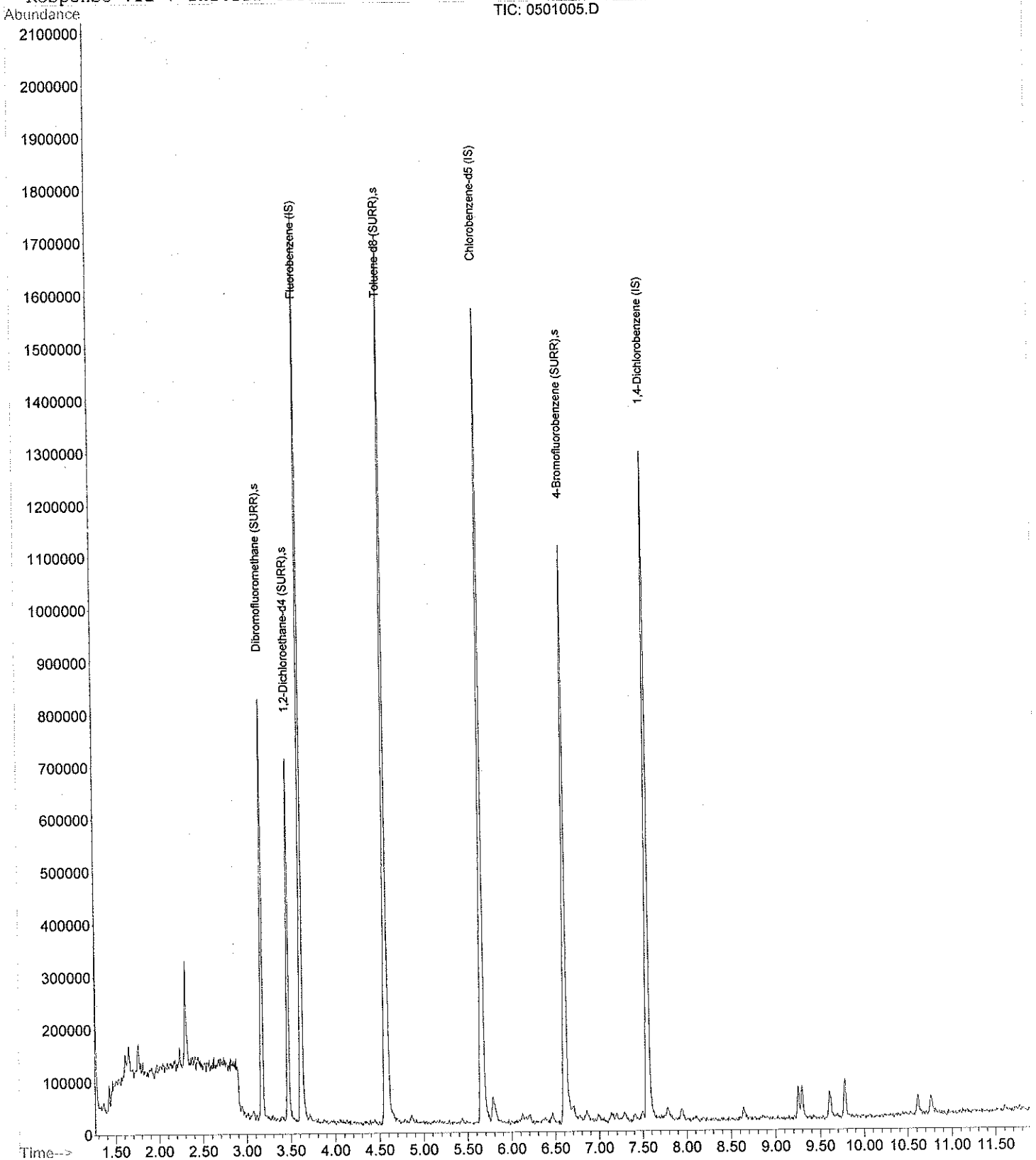
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\0501005.D  
Acq On : 18 Feb 2020 3:26 pm  
Sample : MB  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 18 16:02 2020

Vial: 5  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0401004.D  
 Acq On : 18 Feb 2020 3:09 pm  
 Sample : LCS 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:58 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	614646	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	572119	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	253256	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	251551	55.21	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	110.42%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	333305	52.36	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	104.72%
42) Toluene-d8 (SURR)	4.56	98	561858	47.46	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	94.92%
62) 4-Bromofluorobenzene (SURR)	6.61	95	411778	54.73	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	109.46%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1218535	49.96	ppb	
3) Chloromethane	1.41	50	625513	42.37	ppb	97
4) Vinyl Chloride*	1.45	62	849055	50.35	ppb	99
5) Bromomethane	1.63	94	855576	42.59	ppb	99
6) Chloroethane	1.69	64	567342	48.43	ppb	98
7) Acrolein	2.40	56	729080	51.94	ppb	97
8) Trichlorofluoromethane	1.76	101	2321831	45.97	ppb	100
9) Acetone	2.32	43	449934m	120.95	ppb	
10) 1,1-Dichloroethene*	2.01	61	1855539	47.62	ppb	98
11) Acrylonitrile	2.66	53	2066353	47.36	ppb	99
12) Iodomethane	2.10	142	845397	50.44	ppb	
13) Methylene Chloride	2.29	84	870456	53.11	ppb	91
14) Carbon Disulfide	2.05	76	1264927	48.89	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	796553	52.38	ppb	95
16) Methyl-tert-butyl ether* (	2.42	73	1640503	46.48	ppb	
17) 1,1-Dichloroethane*	2.68	63	2305469	51.17	ppb	98
18) Vinyl Acetate	2.78	43	1336933	49.44	ppb	
19) N-Hexane	2.40	57	1432452	53.22	ppb	98
20) N-Butanol	2.77	57	752745	54.43	ppb	98
21) 2-Butanone (MEK)	3.24	43	520863m	131.44	ppb	
22) cis-1,2-Dichloroethene*	2.94	61	1556184	56.72	ppb	92
23) Bromochloromethane	3.05	128	240435	57.63	ppb	
24) Chloroform*	3.07	83	1995036	54.60	ppb	99
25) 2-2-Dichloropropane	3.00	77	1974428	52.38	ppb	97
28) 1,2-Dichloroethane	3.50	62	1507422	50.83	ppb	96
29) 1,1,1-Trichloroethane*	3.20	97	2023795	53.07	ppb	98
30) 1,1-Dichloropropene	3.26	75	1370960	56.19	ppb	97
31) Carbon Tetrachloride	3.16	117	1646826	47.41	ppb	92
32) Benzene*	3.40	78	2463704	55.53	ppb	
33) Dibromomethane	3.97	93	499845	57.40	ppb	95
34) 1,2-Dichloropropane	4.03	63	623112	51.18	ppb	
35) Trichloroethene*	3.71	95	951489	57.38	ppb	94
36) Bromodichloromethane	4.05	83	1406316	55.68	ppb	99
37) 2-Chloroethyl-vinyl ether	4.38	63	620093m	203.80	ppb	
38) cis-1,3-Dichloropropene	4.44	75	1063941	54.66	ppb	
39) 4-Methyl-2-Pentanone (MIBK)	4.84	43	1187214	133.18	ppb	
40) trans-1,3-Dichloropene	4.87	75	1078169	58.27	ppb	89
41) 1,1,2-Trichloroethane	4.98	83	362858	52.01	ppb	
43) Toluene*	4.60	91	2808941	53.44	ppb	
44) Ethyl Methacrylate	4.95	69	94605	56.75	ppb	
45) 1,3-Dichloropropane	5.18	76	795387	54.40	ppb	
46) 2-Hexanone	5.42	43	775777	128.23	ppb	
48) Dibromochloromethane	5.11	129	691790	48.72	ppb	99
49) 1,2-Dibromoethane (EDB)	5.30	107	538848	50.36	ppb	96

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0401004.D  
 Acq On : 18 Feb 2020 3:09 pm  
 Sample : LCS 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:58 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXE\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.86	166	645892	50.97	ppb	96
51) 1,1,1,2-Tetrachloroethane*	5.71	131	694038	50.89	ppb	96
52) Chlorobenzene*	5.67	112	2070218	52.53	ppb	90
53) Ethyl Benzene*	5.68	91	4590216	52.92	ppb	93
54) m,p-Xylene	5.78	91	7393602	106.74	ppb	95
55) o-Xylene*	6.12	106	1336726	54.70	ppb	87
56) Bromoform	6.19	173	319596	51.15	ppb	99
57) Styrene	6.16	104	1998989	54.49	ppb	91
58) 1,1,2,2-Tetrachloroethane	6.76	85	370502	49.10	ppb	99
59) trans-1,4-Dichloro-2-buten	6.91	53	217501	43.95	ppb	97
60) 1,2,3-Trichloropropane	6.88	75	791524	49.85	ppb	# 98
61) Isopropylbenzene	6.37	105	4476974	56.19	ppb	96
63) Bromobenzene	6.70	156	624150	53.50	ppb	82
64) N-Propylbenzene*	6.70	91	5803075	50.81	ppb	99
65) 2-Chlorotoluene	6.84	91	3725267	49.42	ppb	97
66) 4-Chlorotoluene	6.98	126	716243	51.81	ppb	88
68) 1,3,5-Trimethylbenzene	6.86	105	3715275	48.05	ppb	95
69) tert-butylbenzene	7.13	119	3279106	47.65	ppb	93
70) 1,2,4-Trimethylbenzene	7.19	105	3700037	48.82	ppb	96
71) sec-Butylbenzene	7.29	105	5101156	50.33	ppb	99
72) 1,3-Dichlorobenzene	7.49	146	1249971	50.06	ppb	96
73) 1,4-Dichlorobenzene	7.57	148	785307	49.76	ppb	94
74) p-Isopropyltoluene	7.40	119	3549272	46.87	ppb	95
75) 1,2-Dichlorobenzene	7.94	146	1064181	49.80	ppb	96
76) N-Butylbenzene	7.78	91	4561969	47.43	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.67	155	51141	47.88	ppb	80
78) 1,2,4-Trichlorobenzene	9.29	180	753384	49.34	ppb	99
79) Naphthalene	9.60	128	1260470	55.67	ppb	98
80) Hexachloro-1,3-butadiene	9.26	225	421803	45.58	ppb	97
81) 1,2,3-Trichlorobenzene	9.78	180	621084	50.05	ppb	99
82) 1-Methylnaphthalene	10.76	142	530934	61.94	ppb	98
83) 2-Methylnaphthalene	10.61	142	640034	57.74	ppb	98





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2001020.D  
 Acq On : 18 Feb 2020 7:36 pm  
 Sample : 2262  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:32 2020

Vial: 20  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	872804	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	671515	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	252963	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	333935	51.62	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	103.24%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	442499	48.96	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	97.92%
42) Toluene-d8 (SURR)	4.56	98	909777	54.12	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	108.24%
62) 4-Bromofluorobenzene (SURR)	6.61	95	385659	43.67	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	87.34%

Target Compounds

Qvalue

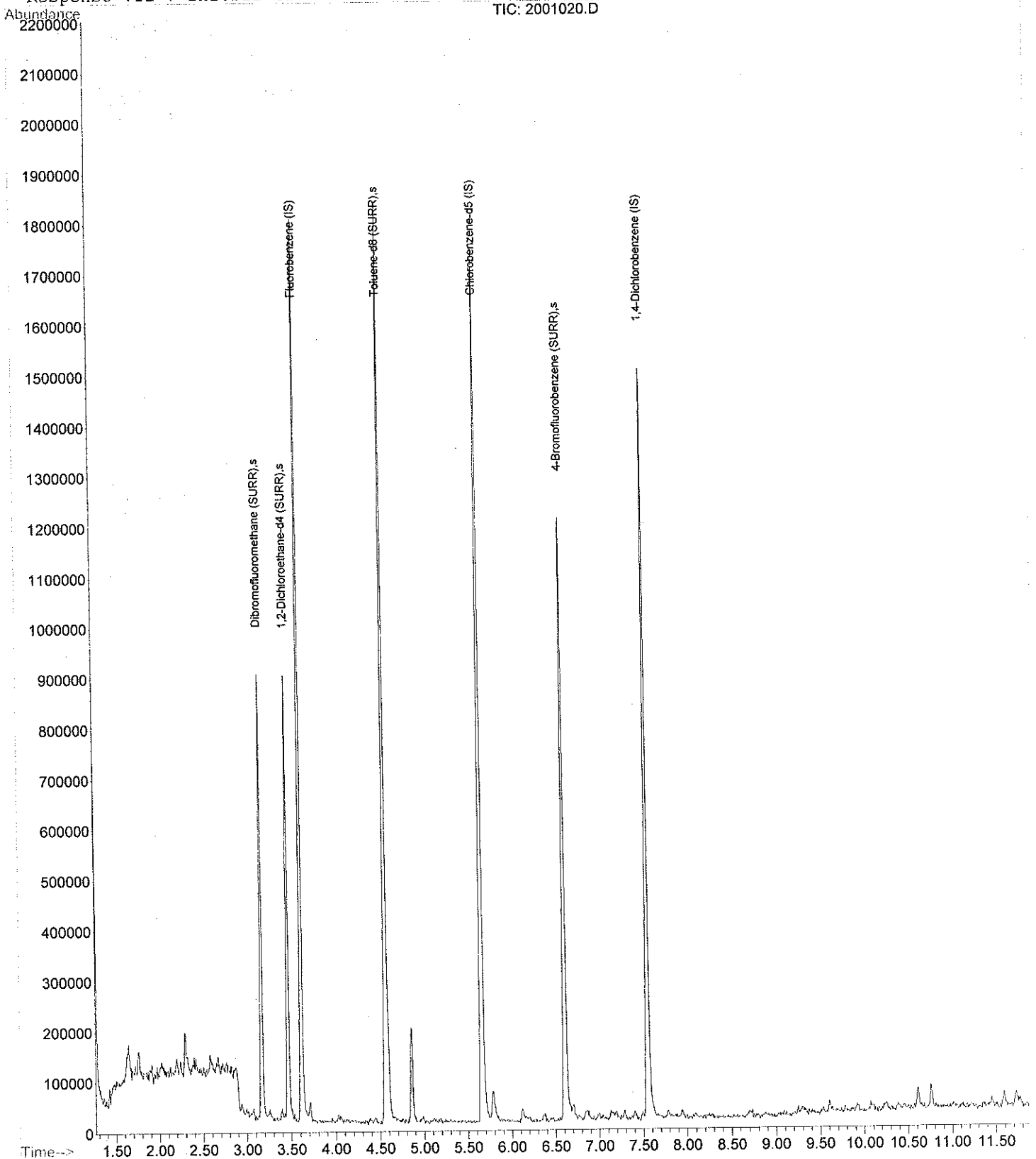
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2001020.D  
Acq On : 18 Feb 2020 7:36 pm  
Sample : 2262  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:32 2020

Vial: 20  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2101021.D  
 Acq On : 18 Feb 2020 7:53 pm  
 Sample : 2262ms  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:37 2020

Vial: 21  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	584755	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.65	117	460629	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	194831	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	219671	50.68	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	101.36%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	326861	53.98	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	107.96%
42) Toluene-d8 (SURR)	4.56	98	567090	50.36	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	100.72%
62) 4-Bromofluorobenzene (SURR)	6.60	95	340390	56.19	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	112.38%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1204266	51.90	ppb	
3) Chloromethane	1.40	50	652300	46.44	ppb	
4) Vinyl Chloride*	1.45	62	767389	47.83	ppb	99
5) Bromomethane	1.62	94	892280	46.69	ppb	
6) Chloroethane	1.69	64	519720	46.63	ppb	98
7) Acrolein	2.39	56	592085	44.34	ppb	99
8) Trichlorofluoromethane	1.76	101	2001016	41.65	ppb	99
9) Acetone	2.32	43	420027	118.68	ppb	
10) 1,1-Dichloroethene*	2.02	61	1638809	44.21	ppb	
11) Acrylonitrile	2.66	53	1955753	47.12	ppb	
12) Iodomethane	2.10	142	702484	44.05	ppb	92
13) Methylene Chloride	2.30	84	704051	45.15	ppb	91
14) Carbon Disulfide	2.04	76	1049533	42.64	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	629139	43.49	ppb	97
16) Methyl-tert-butyl ether* (	2.41	73	1682890	50.12	ppb	# 20
17) 1,1-Dichloroethane*	2.67	63	1845735	43.06	ppb	99
18) Vinyl Acetate	2.77	43	1359626	52.85	ppb	
19) N-Hexane	2.39	57	1165131	45.50	ppb	
20) N-Butanol	2.76	57	633616	48.16	ppb	# 95
21) 2-Butanone (MEK)	3.23	43	491276	130.32	ppb	
22) cis-1,2-Dichloroethene*	2.94	61	1228894	47.08	ppb	92
23) Bromochloromethane	3.05	128	231051	58.21	ppb	72
24) Chloroform*	3.07	83	1601529	46.07	ppb	99
25) 2,2-Dichloropropane	3.00	77	1785342	49.79	ppb	
28) 1,2-Dichloroethane	3.50	62	1278689	45.32	ppb	96
29) 1,1,1-Trichloroethane*	3.19	97	1537206	42.37	ppb	99
30) 1,1-Dichloropropene	3.25	75	1079311	46.50	ppb	97
31) Carbon Tetrachloride	3.16	117	1494395	45.22	ppb	
32) Benzene*	3.39	78	2205198	52.24	ppb	94
33) Dibromomethane	3.96	93	417361	50.38	ppb	95
34) 1,2-Dichloropropane	4.02	63	612752	52.90	ppb	86
35) Trichloroethene*	3.71	95	743083	47.10	ppb	94
36) Bromodichloromethane	4.05	83	1145543	47.67	ppb	97
37) 2-Chloroethyl-vinyl ether	4.38	63	632499	218.50	ppb	
38) cis-1,3-Dichloropropene	4.44	75	947212	51.15	ppb	84
39) 4-Methyl-2-Pentanone (MIBK)	4.84	43	1053548	124.23	ppb	
40) trans-1,3-Dichloropene	4.86	75	882169	50.11	ppb	89
41) 1,1,2-Trichloroethane	4.98	83	375965	56.64	ppb	99
43) Toluene*	4.59	91	2567867	51.35	ppb	98
44) Ethyl Methacrylate	4.95	69	83864	52.88	ppb	# 87
45) 1,3-Dichloropropane	5.17	76	740562	53.24	ppb	99
46) 2-Hexanone	5.42	43	744893m	129.42	ppb	
48) Dibromochloromethane	5.11	129	569740	49.83	ppb	100
49) 1,2-Dibromoethane (EDB)	5.29	107	461718	53.59	ppb	97

(#) = qualifier out of range (m) = manual integration  
 2101021.D 011820RC.M Wed Feb 19 08:37:54 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2101021.D  
 Acq On : 18 Feb 2020 7:53 pm  
 Sample : 2262ms  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:37 2020

Vial: 21  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.86	166	590940	57.93	ppb	94
51) 1,1,1,2-Tetrachloroethane*	5.71	131	519931	47.35	ppb	97
52) Chlorobenzene*	5.67	112	1556763	49.07	ppb	91
53) Ethyl Benzene*	5.67	91	3377164	48.36	ppb	94
54) m,p-Xylene	5.78	91	5321627	95.43	ppb	95
55) o-Xylene*	6.12	106	989043	50.27	ppb	89
56) Bromoform	6.19	173	257261	51.14	ppb	97
57) Styrene	6.16	104	1494906	50.61	ppb	92
58) 1,1,2,2-Tetrachloroethane	6.76	85	318117	52.36	ppb	99
59) trans-1,4-Dichloro-2-buten	6.91	53	181797	45.63	ppb	96
60) 1,2,3-Trichloropropane	6.88	75	658922	51.54	ppb	# 99
61) Isopropylbenzene	6.36	105	3229039	50.34	ppb	96
63) Bromobenzene	6.70	156	475161	50.59	ppb	83
64) N-Propylbenzene*	6.70	91	4166018	45.30	ppb	98
65) 2-Chlorotoluene	6.84	91	2682645	44.20	ppb	97
66) 4-Chlorotoluene	6.98	126	531139	47.72	ppb	90
68) 1,3,5-Trimethylbenzene	6.86	105	2735703	45.99	ppb	98
69) tert-butylbenzene	7.13	119	2365880	44.69	ppb	94
70) 1,2,4-Trimethylbenzene	7.19	105	2673131	45.85	ppb	96
71) sec-Butylbenzene	7.28	105	3618678	46.41	ppb	100
72) 1,3-Dichlorobenzene	7.49	146	936397	48.75	ppb	94
73) 1,4-Dichlorobenzene	7.56	148	581446	47.89	ppb	96
74) p-Isopropyltoluene	7.40	119	2651564	45.52	ppb	95
75) 1,2-Dichlorobenzene	7.94	146	810801	49.32	ppb	94
76) N-Butylbenzene	7.78	91	3149492	42.56	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.66	155	43216	52.60	ppb	83
78) 1,2,4-Trichlorobenzene	9.29	180	518216	44.11	ppb	98
79) Naphthalene	9.60	128	965692	55.44	ppb	99
80) Hexachloro-1,3-butadiene	9.26	225	274250	38.53	ppb	97
81) 1,2,3-Trichlorobenzene	9.77	180	438140	45.89	ppb	97
82) 1-Methylnaphthalene	10.76	142	399099	60.53	ppb	98
83) 2-Methylnaphthalene	10.61	142	475231	55.72	ppb	100

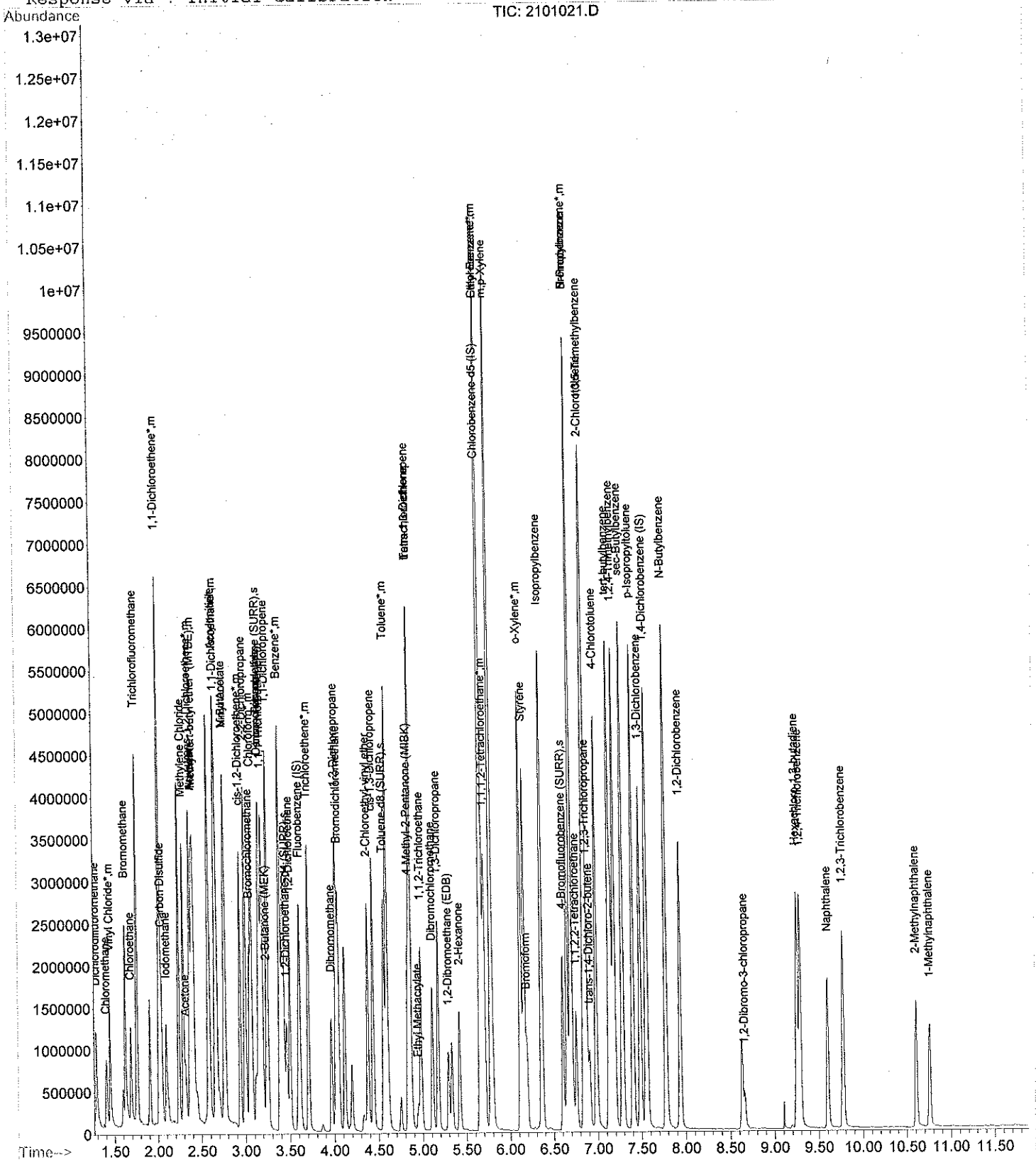
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2101021.D  
Acq On : 18 Feb 2020 7:53 pm  
Sample : 2262ms  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:37 2020

Vial: 21  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2201022.D  
 Acq On : 18 Feb 2020 8:09 pm  
 Sample : 2262msd  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:42 2020

Vial: 22  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	688406	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.65	117	547934	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	357671	50.00	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	237152	46.48	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	92.96%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	392679	55.08	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	110.16%
42) Toluene-d8 (SURR)	4.56	98	700967	52.87	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	105.74%
62) 4-Bromofluorobenzene (SURR)	6.60	95	336062	46.64	ppb	-0.01
Spiked Amount	50.000	Range	69 - 131	Recovery	=	93.28%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1431820	52.42	ppb	
3) Chloromethane	1.41	50	741792	44.86	ppb	# 91
4) Vinyl Chloride*	1.45	62	902487	47.78	ppb	
5) Bromomethane	1.63	94	949639	42.21	ppb	
6) Chloroethane	1.70	64	600311	45.75	ppb	88
7) Acrolein	2.40	56	700131	44.54	ppb	98
8) Trichlorofluoromethane	1.77	101	2435099	43.05	ppb	98
9) Acetone	2.32	43	616433	147.95	ppb	97
10) 1,1-Dichloroethene*	2.02	61	1891321	43.34	ppb	98
11) Acrylonitrile	2.66	53	1983359	40.59	ppb	98
12) Iodomethane	2.10	142	933806	49.74	ppb	89
13) Methylene Chloride	2.30	84	847922	46.19	ppb	89
14) Carbon Disulfide	2.05	76	1302035	44.93	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	748687	43.96	ppb	98
16) Methyl-tert-butyl ether* (	2.42	73	1931604	48.87	ppb	94
17) 1,1-Dichloroethane*	2.67	63	2222032	44.03	ppb	99
18) Vinyl Acetate	2.77	43	1258788	41.56	ppb	# 95
19) N-Hexane	2.40	57	1380546	45.79	ppb	97
20) N-Butanol	2.77	57	743376	47.99	ppb	# 95
21) 2-Butanone (MEK)	3.23	43	649640	146.38	ppb	# 98
22) cis-1,2-Dichloroethene*	2.94	61	1507410	49.05	ppb	92
23) Bromochloromethane	3.05	128	271958	58.20	ppb	73
24) Chloroform*	3.07	83	1887673	46.13	ppb	98
25) 2,2-Dichloropropane	3.00	77	1761660	41.73	ppb	97
28) 1,2-Dichloroethane	3.50	62	1507029	45.37	ppb	96
29) 1,1,1-Trichloroethane*	3.20	97	1902870	44.56	ppb	98
30) 1,1-Dichloropropene	3.26	75	1333350	48.80	ppb	97
31) Carbon Tetrachloride	3.16	117	1678884	43.15	ppb	99
32) Benzene*	3.40	78	2667747	53.68	ppb	93
33) Dibromomethane	3.97	93	483358	49.56	ppb	95
34) 1,2-Dichloropropane	4.03	63	709958	52.07	ppb	87
35) Trichloroethene*	3.71	95	911940	49.10	ppb	94
36) Bromodichloromethane	4.05	83	1360310	48.09	ppb	98
37) 2-Chloroethyl-vinyl ether	4.38	63	914946	268.48	ppb	100
38) cis-1,3-Dichloropropene	4.44	75	1143281	52.44	ppb	83
39) 4-Methyl-2-Pentanone (MIBK)	4.83	43	1433052	143.53	ppb	97
40) trans-1,3-Dichloropene	4.86	75	1076918	51.96	ppb	90
41) 1,1,2-Trichloroethane	4.98	83	433018	55.41	ppb	96
43) Toluene*	4.60	91	3105199	52.75	ppb	98
44) Ethyl Methacrylate	4.95	69	97802	52.38	ppb	# 91
45) 1,3-Dichloropropane	5.18	76	913126	55.76	ppb	99
46) 2-Hexanone	5.42	43	1051014	155.11	ppb	99
48) Dibromochloromethane	5.11	129	680334	50.02	ppb	99
49) 1,2-Dibromoethane (EDB)	5.29	107	553603	54.02	ppb	99

Data File : C:\HPCHEM\1\DATA\021820\2201022.D  
 Acq On : 18 Feb 2020 8:09 pm  
 Sample : 2262msd  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:42 2020

Vial: 22  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.86	166	716732	59.06	ppb	95
51) 1,1,1,2-Tetrachloroethane*	5.71	131	638734	48.90	ppb	98
52) Chlorobenzene*	5.67	112	1867558	49.48	ppb	90
53) Ethyl Benzene*	5.68	91	4099765	49.35	ppb	93
54) m,p-Xylene	5.78	91	6585704	99.28	ppb	95
55) o-Xylene*	6.12	106	1189170	50.81	ppb	89
56) Bromoform	6.19	173	304471	50.89	ppb	98
57) Styrene	6.16	104	1843871	52.48	ppb	92
58) 1,1,2,2-Tetrachloroethane	6.76	85	358558	49.61	ppb	99
59) trans-1,4-Dichloro-2-buten	6.91	53	211973	44.73	ppb	94
60) 1,2,3-Trichloropropane	6.88	75	773433	50.86	ppb #	96
61) Isopropylbenzene	6.36	105	3950348	51.77	ppb	96
63) Bromobenzene	6.70	156	562484	50.35	ppb	80
64) N-Propylbenzene*	6.70	91	5015807	45.85	ppb	99
65) 2-Chlorotoluene	6.84	91	3330783	46.13	ppb	98
66) 4-Chlorotoluene	6.98	126	648163	48.95	ppb	85
68) 1,3,5-Trimethylbenzene	6.86	105	3348529	30.66	ppb	96
69) tert-butylbenzene	7.13	119	2873521	29.56	ppb	94
70) 1,2,4-Trimethylbenzene	7.19	105	3310862	30.93	ppb	97
71) sec-Butylbenzene	7.28	105	4414355	30.84	ppb	99
72) 1,3-Dichlorobenzene	7.49	146	1090257	30.92	ppb	96
73) 1,4-Dichlorobenzene	7.56	148	713109	32.00	ppb	95
74) p-Isopropyltoluene	7.40	119	3294322	30.81	ppb	95
75) 1,2-Dichlorobenzene	7.94	146	987971	32.74	ppb	95
76) N-Butylbenzene	7.77	91	3950283	29.08	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.67	155	50107	33.22	ppb	85
78) 1,2,4-Trichlorobenzene	9.29	180	665786	30.87	ppb	98
79) Naphthalene	9.60	128	1162946	36.37	ppb	99
80) Hexachloro-1,3-butadiene	9.25	225	338326	25.89	ppb	98
81) 1,2,3-Trichlorobenzene	9.78	180	552529	31.53	ppb	96
82) 1-Methylnaphthalene	10.76	142	478655	39.54	ppb	99
83) 2-Methylnaphthalene	10.61	142	554429	35.41	ppb	97



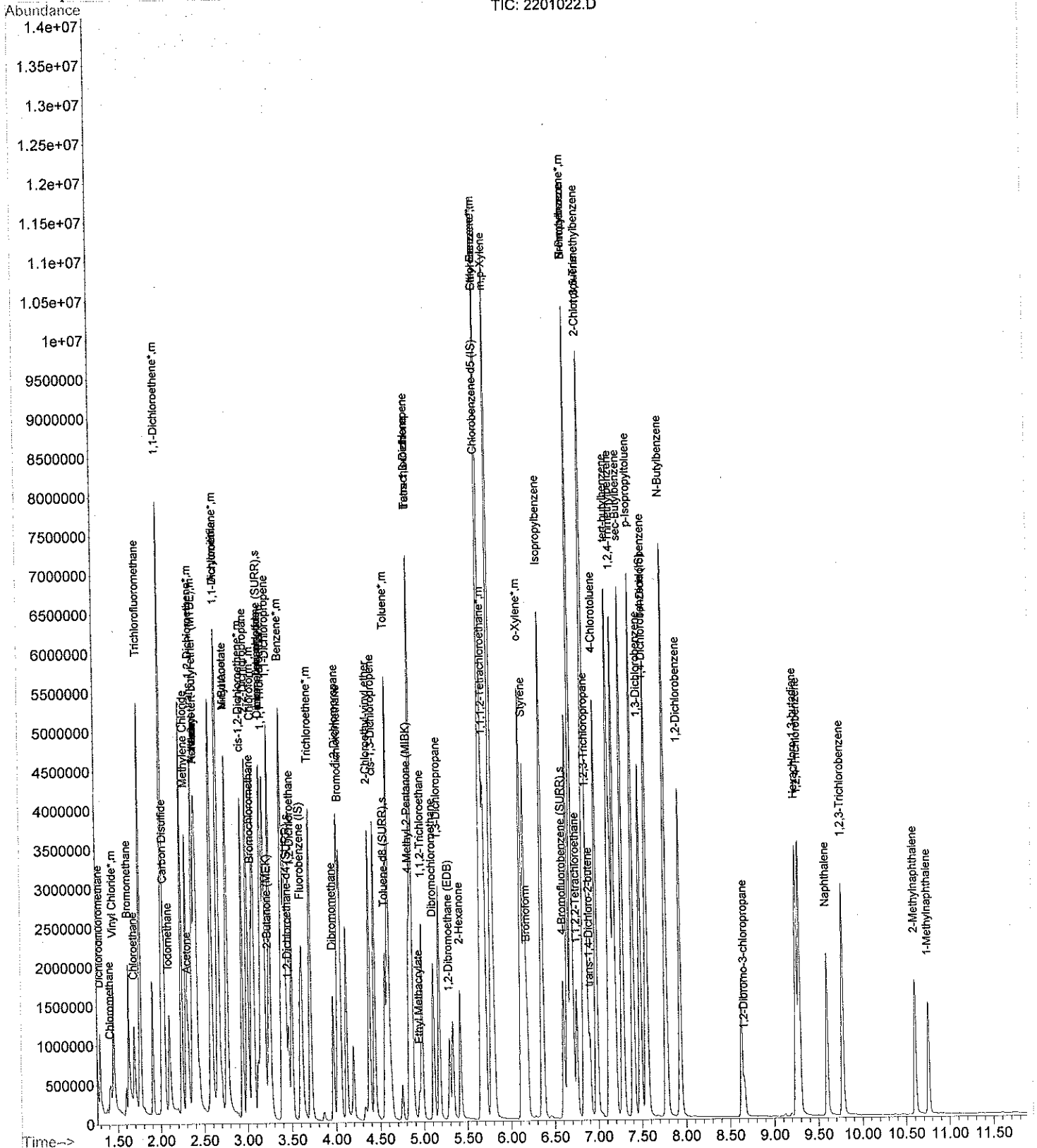
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2201022.D  
 Acq On : 18 Feb 2020 8:09 pm  
 Sample : 2262msd  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:42 2020

Vial: 22  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration





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## 8260 VOC

- Raw Sample Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\0701007.D  
 Acq On : 18 Feb 2020 6:38 pm  
 Sample : 20-2260 TB  
 Misc : A

Vial: 7  
 Operator: tjc  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 19 8:01 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6940506	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4215492	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	2205591	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
126) Dibromofluoromethane (SURR)	2.87	113	2491070	50.48	ug/L	0.00
Spiked Amount : 50.0000	Range	74 - 132	Recovery	=	100.96%	
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3023003	49.19	ug/L	0.00
Spiked Amount : 50.0000	Range	77 - 134	Recovery	=	98.38%	
42) Toluene-d8 (SURR)	4.13	98	5236714	43.26	ug/L	0.00
Spiked Amount : 50.0000	Range	67 - 130	Recovery	=	86.52%	
62) 4-Bromofluorobenzene (SURR)	5.95	95	2173748	50.54	ug/L	0.00
Spiked Amount : 50.0000	Range	65 - 133	Recovery	=	101.08%	

Target Compounds

Qvalue

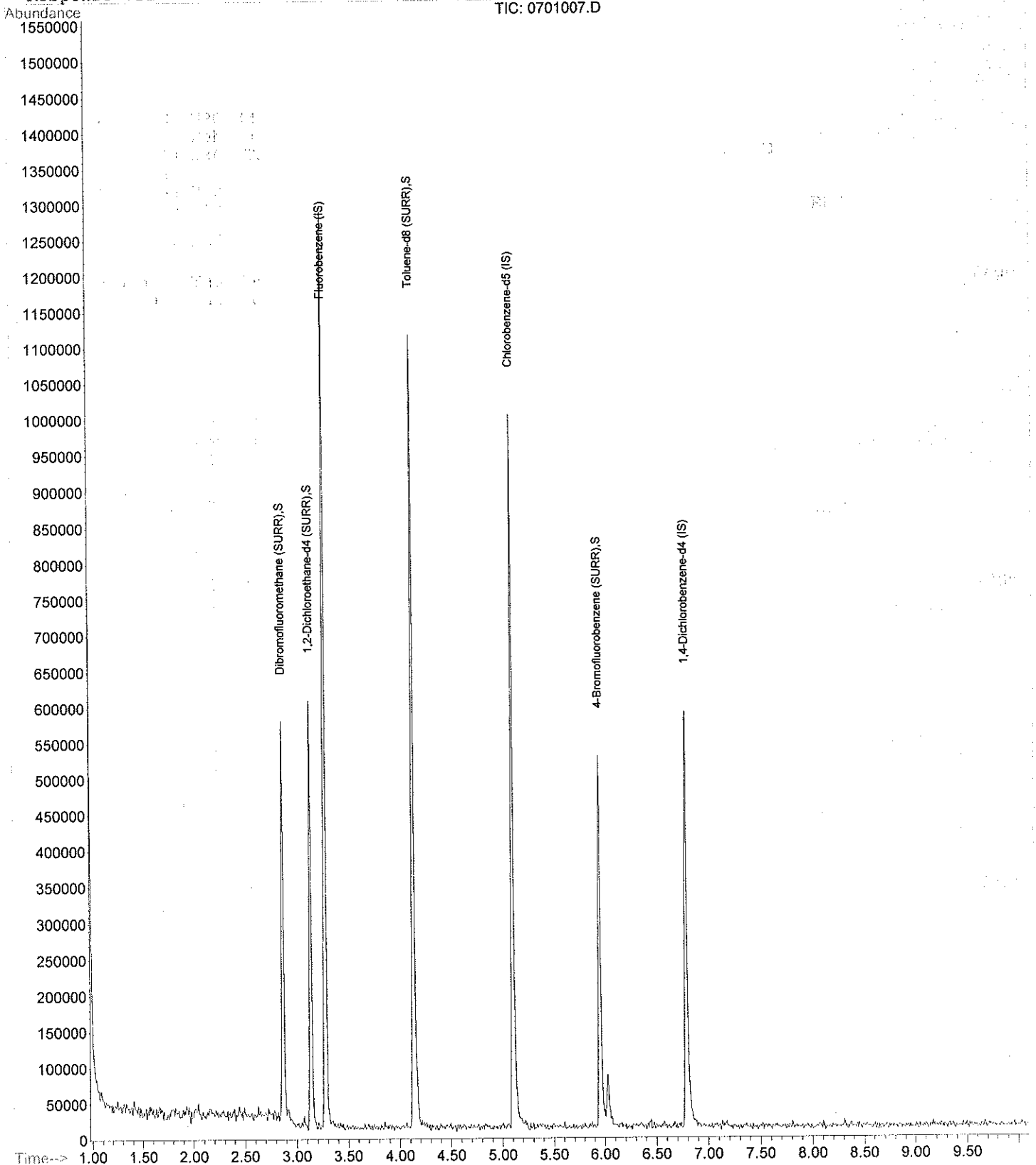
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\0701007.D  
Acq On : 18 Feb 2020 6:38 pm  
Sample : 20-2260 TB  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 19 8:01 2020

Vial: 7  
Operator: tjj  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\1901019.D  
 Acq On : 18 Feb 2020 7:19 pm  
 Sample : 2261  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:31 2020

Vial: 19  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	929376	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	683608	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	236502	50.00	ppb	-0.01
<b>System Monitoring Compounds</b>						
26) Dibromofluoromethane (SURR)	3.17	113	360840	52.38	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	104.76%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	469407	48.77	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	97.54%
42) Toluene-d8 (SURR)	4.56	98	935011	52.24	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	104.48%
62) 4-Bromofluorobenzene (SURR)	6.60	95	403211	44.85	ppb	-0.01
Spiked Amount	50.000	Range	69 - 131	Recovery	=	89.70%
<b>Target Compounds</b>						
35) Trichloroethene*	3.71	95	535643	21.36	ppb	93
50) Tetrachloroethene	4.86	166	1408786	93.05	ppb	96

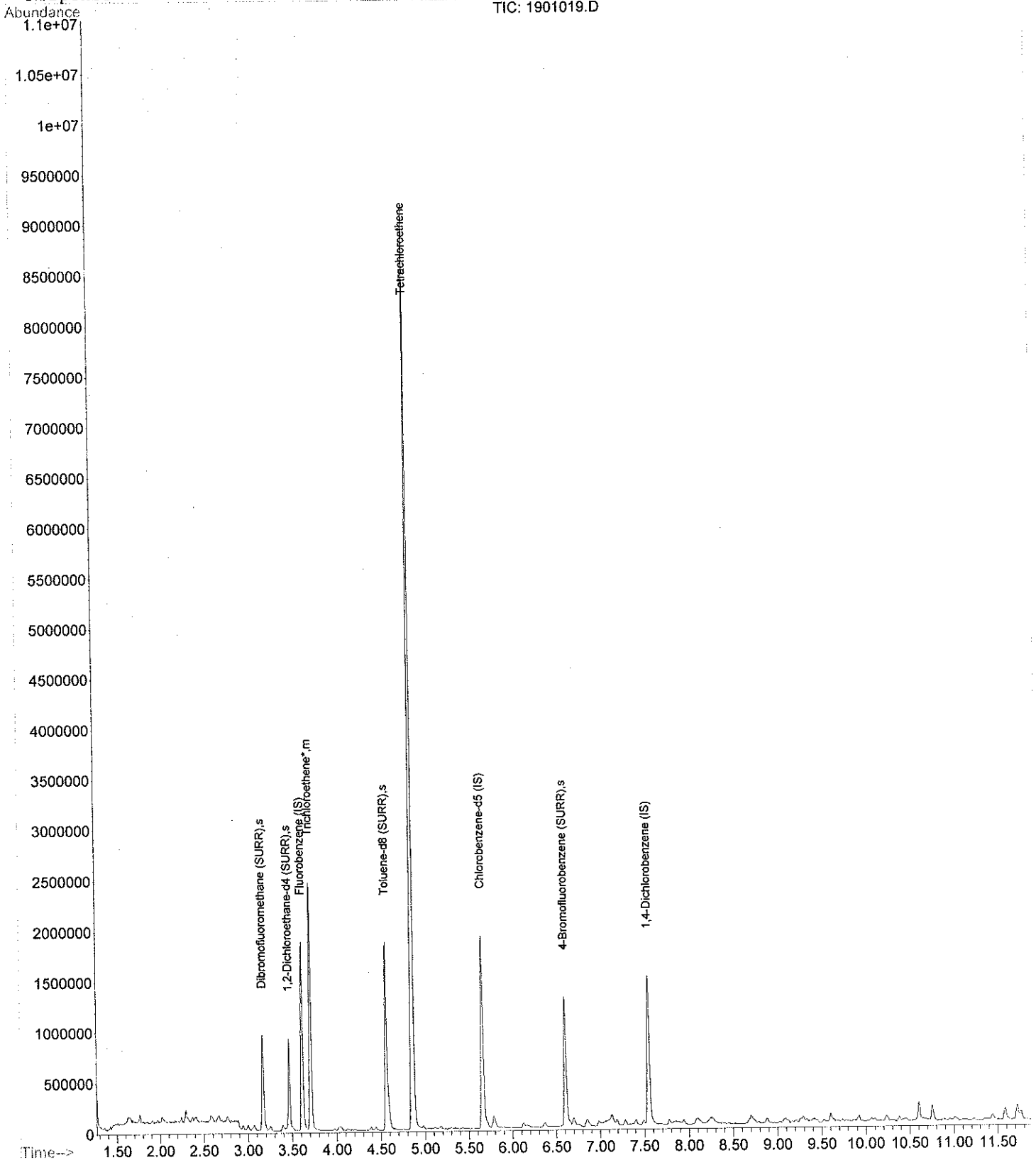
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\1901019.D  
Acq On : 18 Feb 2020 7:19 pm  
Sample : 2261  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:31 2020

Vial: 19  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2301023.D  
 Acq On : 18 Feb 2020 8:26 pm  
 Sample : 2263  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:43 2020

Vial: 23  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	871297	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	649386	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.55	152	227216	50.00	ppb	0.00
<b>System Monitoring Compounds</b>						
26) Dibromofluoromethane (SURR)	3.17	113	351333	54.40	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	108.80%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	444915	49.31	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.62%
42) Toluene-d8 (SURR)	4.56	98	905626	53.97	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	107.94%
62) 4-Bromofluorobenzene (SURR)	6.61	95	365856	42.84	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	85.68%
<b>Target Compounds</b>						
50) Tetrachloroethene	4.86	166	89560	6.23	ppb	Qvalue 98

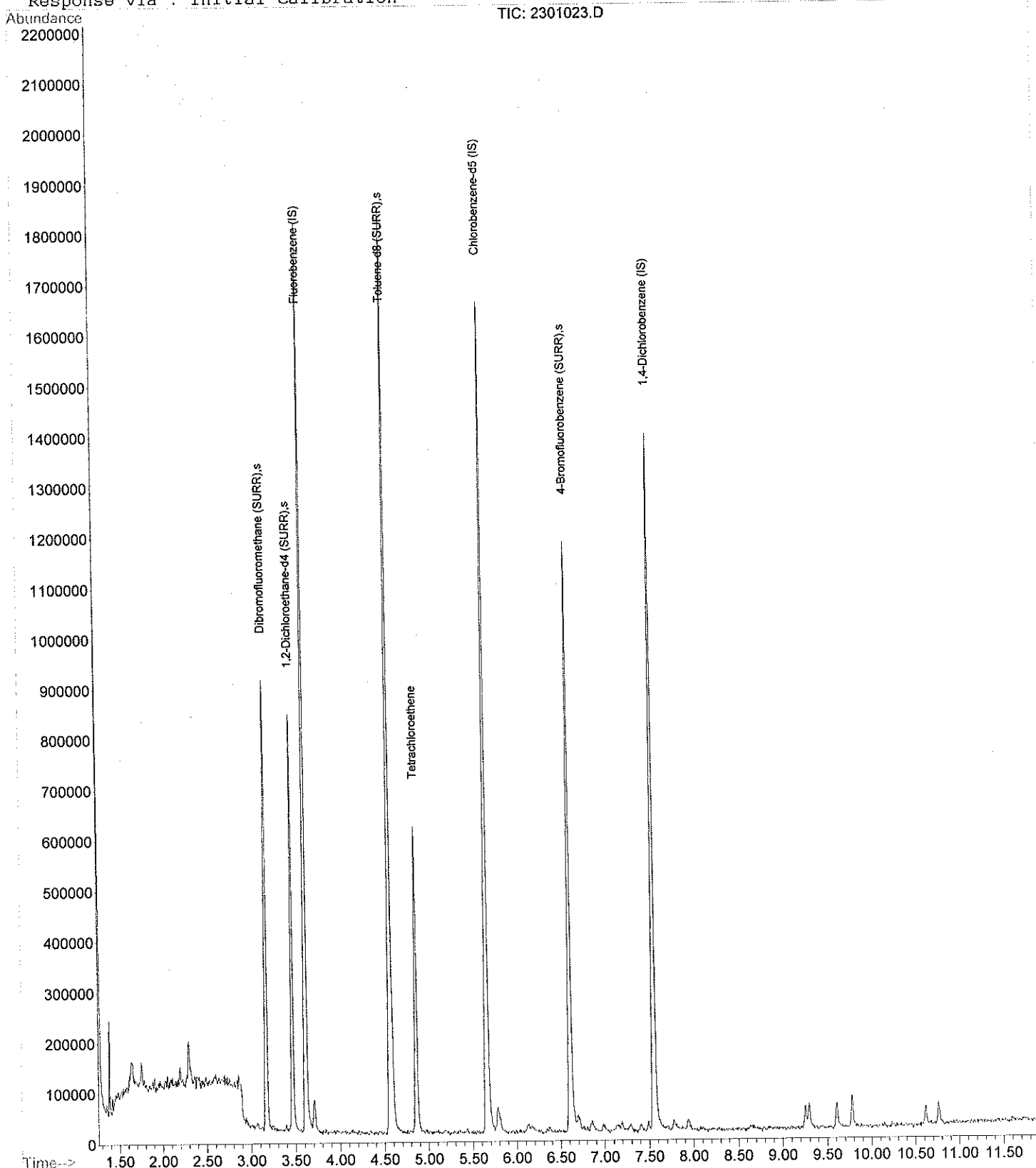
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2301023.D  
Acq On : 18 Feb 2020 8:26 pm  
Sample : 2263  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:43 2020

Vial: 23  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2401024.D  
 Acq On : 18 Feb 2020 8:43 pm  
 Sample : 2264  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:43 2020

Vial: 24  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	877702	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	567477	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.55	152	184188	50.00	ppb	0.00
<b>System Monitoring Compounds</b>						
26) Dibromofluoromethane (SURR)	3.17	113	364100	55.97	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	111.94%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	474189	52.17	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	104.34%
42) Toluene-d8 (SURR)	4.56	98	843575	49.91	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	99.82%
62) 4-Bromofluorobenzene (SURR)	6.61	95	315923	42.33	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	84.66%
<b>Target Compounds</b>						<b>Qvalue</b>
35) Trichloroethene*	3.71	95	164947	6.97	ppb	95
50) Tetrachloroethene	4.86	166	599350	47.69	ppb	97

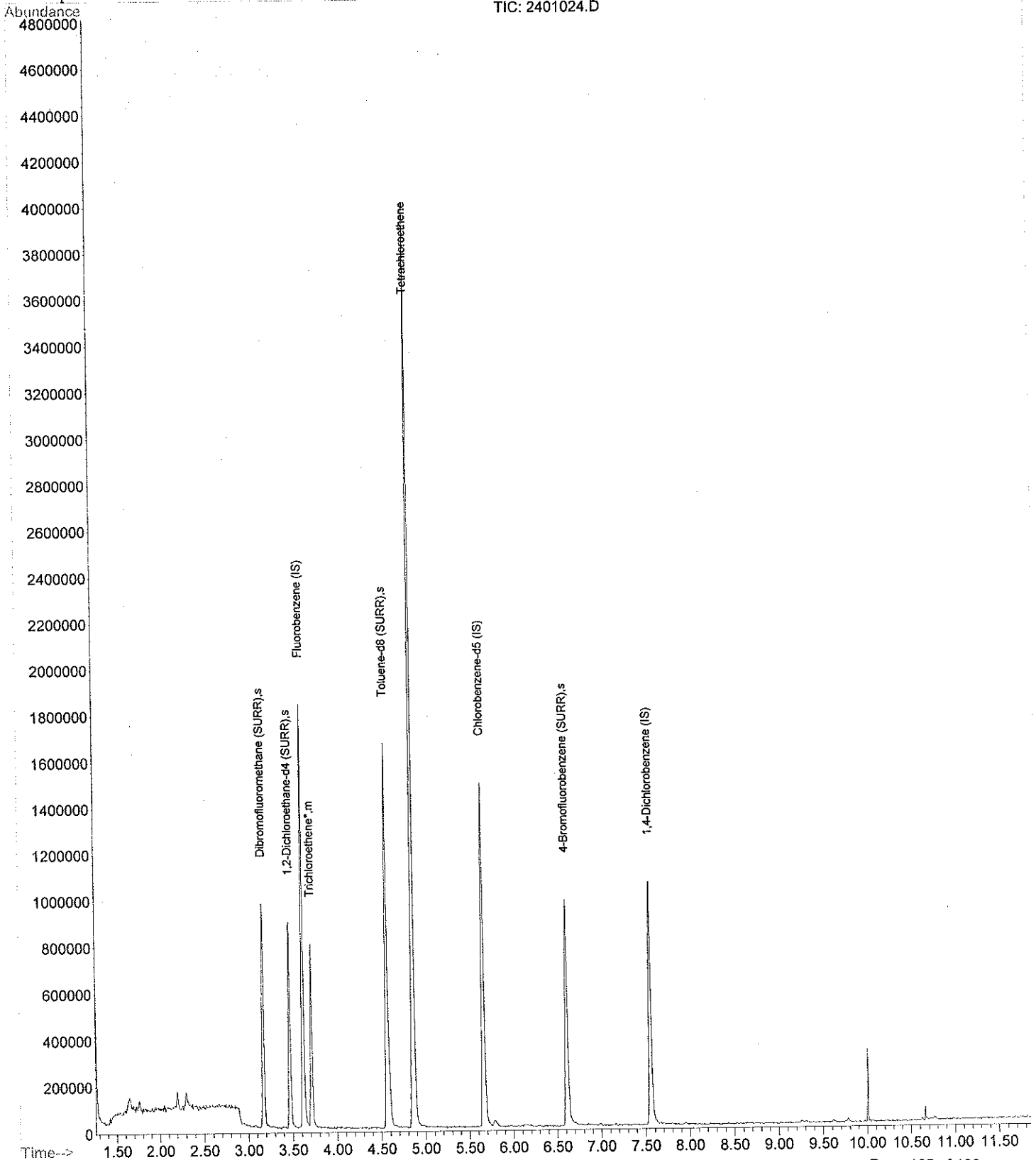
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2401024.D  
Acq On : 18 Feb 2020 8:43 pm  
Sample : 2264  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:43 2020

Vial: 24  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2501025.D  
 Acq On : 18 Feb 2020 8:59 pm  
 Sample : 2265  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:43 2020

Vial: 25  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	839607	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	602956	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.55	152	215245	50.00	ppb	0.00

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.18	113	333746	53.63	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	107.26%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	444252	51.09	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.18%
42) Toluene-d8 (SURR)	4.56	98	822738	50.88	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	101.76%
62) 4-Bromofluorobenzene (SURR)	6.61	95	340339	42.92	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	85.84%

Target Compounds

Qvalue

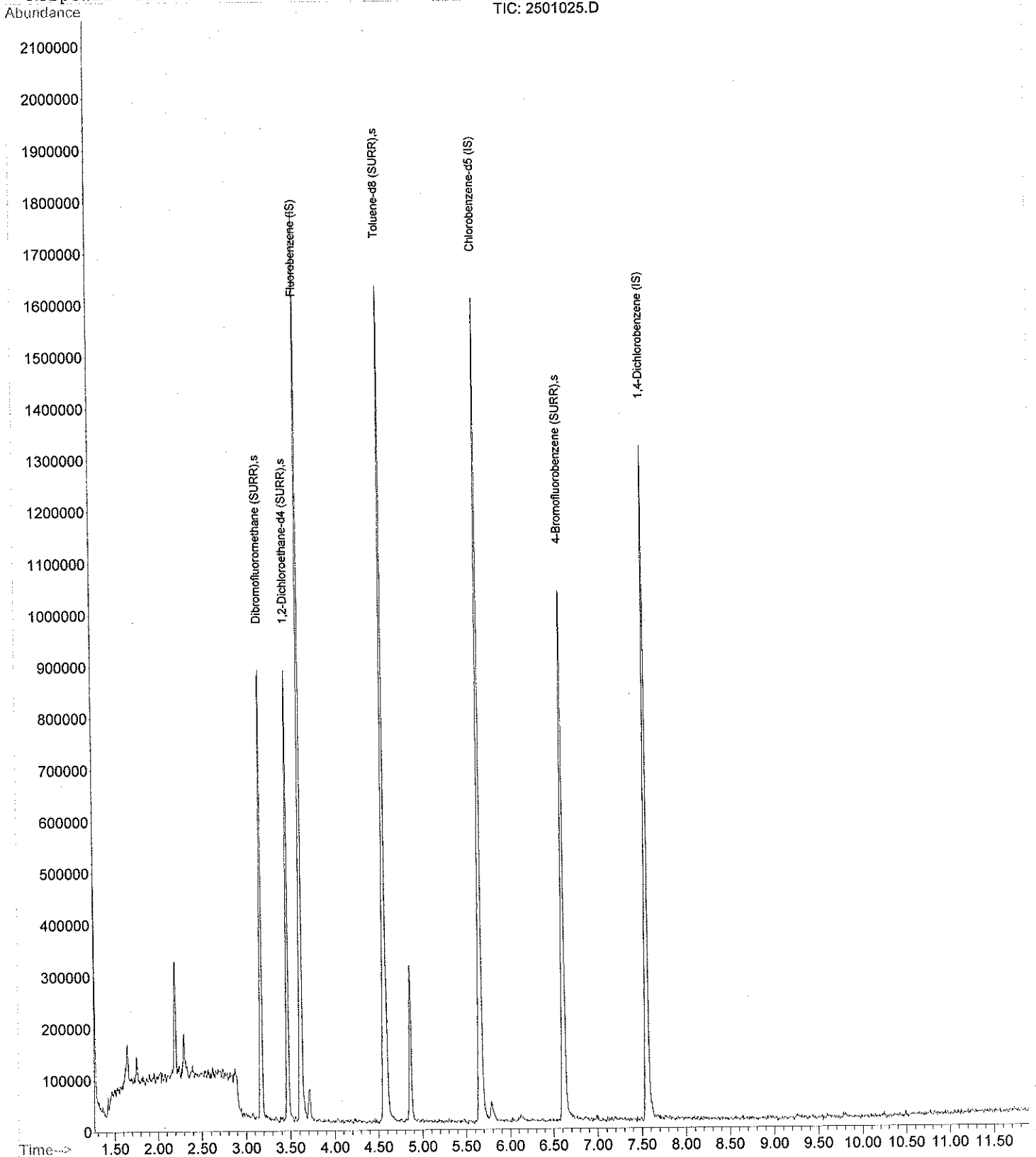
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2501025.D  
Acq On : 18 Feb 2020 8:59 pm  
Sample : 2265  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:43 2020

Vial: 25  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2601026.D  
 Acq On : 18 Feb 2020 9:16 pm  
 Sample : 2266  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:44 2020

Vial: 26  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	750075	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	546336	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	182888	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.17	113	304892	54.84	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	109.68%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	403937	52.00	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	104.00%
42) Toluene-d8 (SURR)	4.57	98	770441	53.33	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	106.66%
62) 4-Bromofluorobenzene (SURR)	6.61	95	305492	42.52	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	85.04%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) Tetrachloroethene	4.87	166	65312	5.40	ppb	98

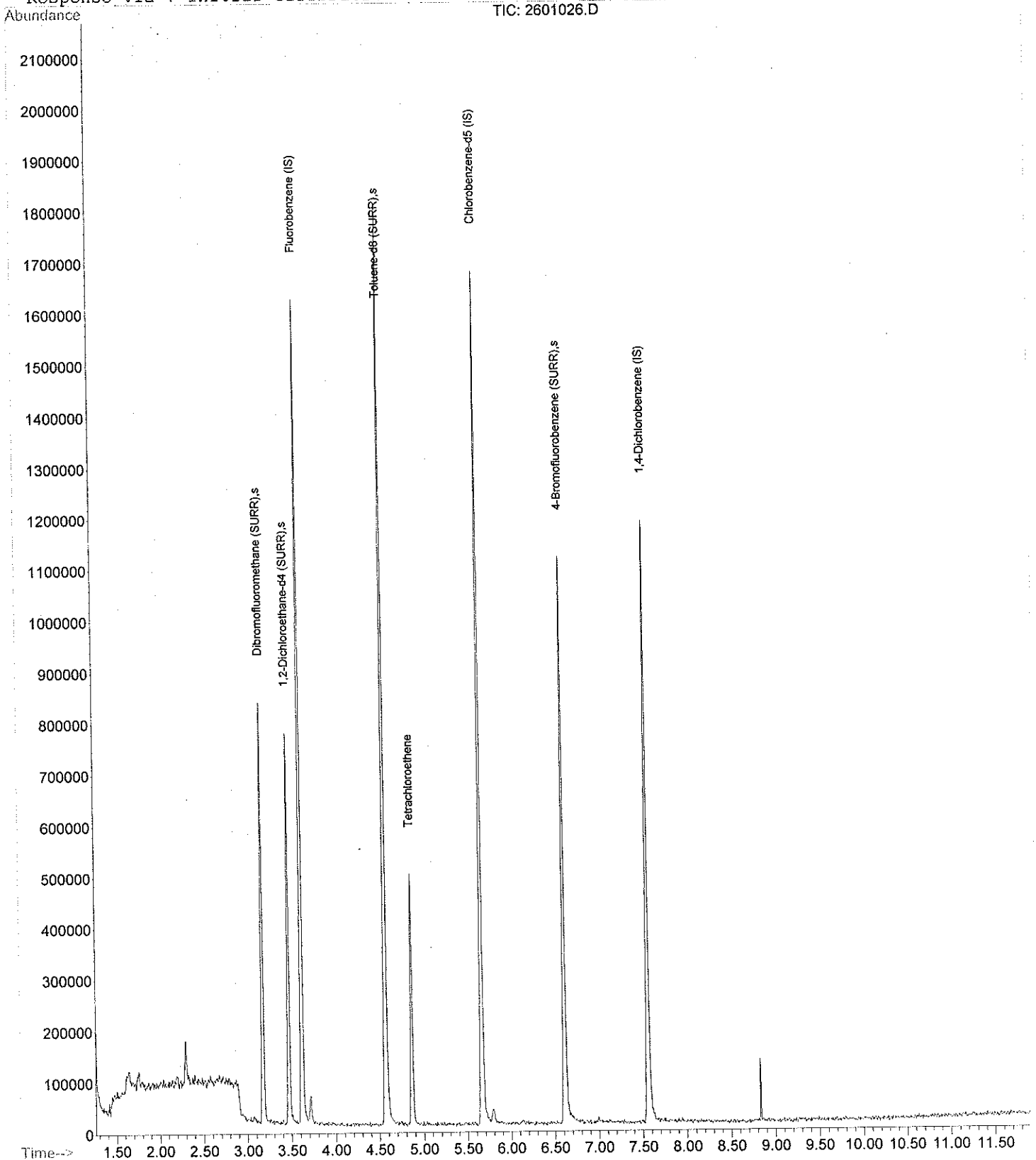
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2601026.D  
Acq On : 18 Feb 2020 9:16 pm  
Sample : 2266  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:44 2020

Vial: 26  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2701027.D  
 Acq On : 18 Feb 2020 9:32 pm  
 Sample : 2267  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:44 2020

Vial: 27  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	764446	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	543297	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	184470	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	271253	47.87	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	95.74%		
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	451621	57.05	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	114.10%		
42) Toluene-d8 (SURR)	4.57	98	755525	51.32	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	102.64%		
62) 4-Bromofluorobenzene (SURR)	6.61	95	318250	44.54	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery =	89.08%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
35) Trichloroethene*	3.71	95	269017	13.04	ppb	96
50) Tetrachloroethene	4.86	166	540284	44.90	ppb	97

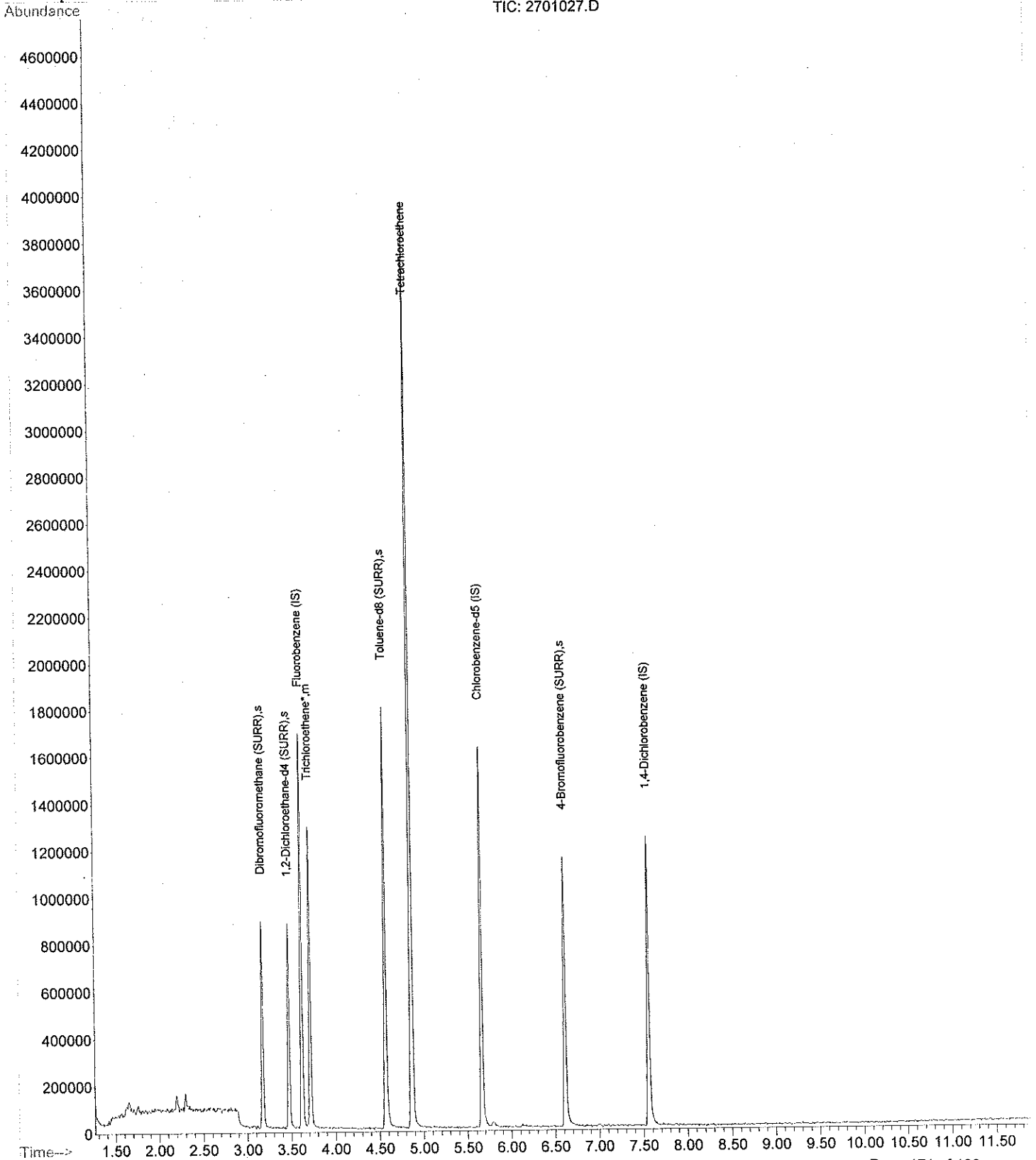
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2701027.D  
Acq On : 18 Feb 2020 9:32 pm  
Sample : 2267  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:44 2020

Vial: 27  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2801028.D  
 Acq On : 18 Feb 2020 9:49 pm  
 Sample : 2268  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:45 2020

Vial: 28  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	637417	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	478021	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	155784	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	237988	50.37	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	100.74%		
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	360334	54.59	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	109.18%		
42) Toluene-d8 (SURR)	4.57	98	646936	52.70	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	105.40%		
62) 4-Bromofluorobenzene (SURR)	6.62	95	270689	43.06	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery =	86.12%		

Target Compounds Qvalue

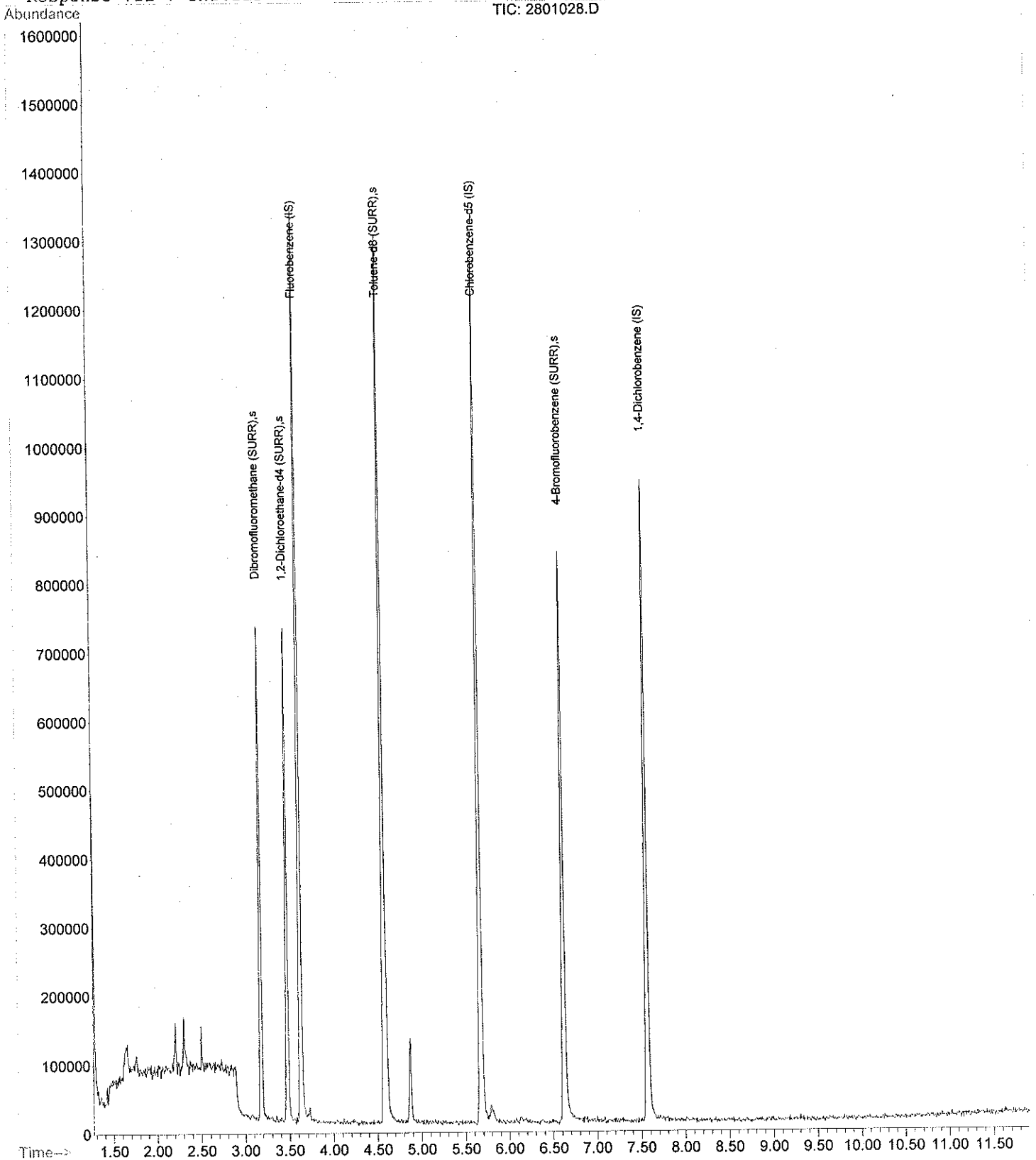
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2801028.D  
Acq On : 18 Feb 2020 9:49 pm  
Sample : 2268  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:45 2020

Vial: 28  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\2901029.D  
 Acq On : 18 Feb 2020 10:06 pm  
 Sample : 2269  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:45 2020

Vial: 29  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	670736	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	506170	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.57	152	175494	50.00	ppb	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.18	113	289127	58.15	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	116.30%
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	382200	55.02	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	110.04%
42) Toluene-d8 (SURR)	4.57	98	711703	55.10	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	110.20%
62) 4-Bromofluorobenzene (SURR)	6.62	95	293120	44.03	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	88.06%
Target Compounds						Qvalue
50) Tetrachloroethene	4.88	166	45161	4.03	ppb	92

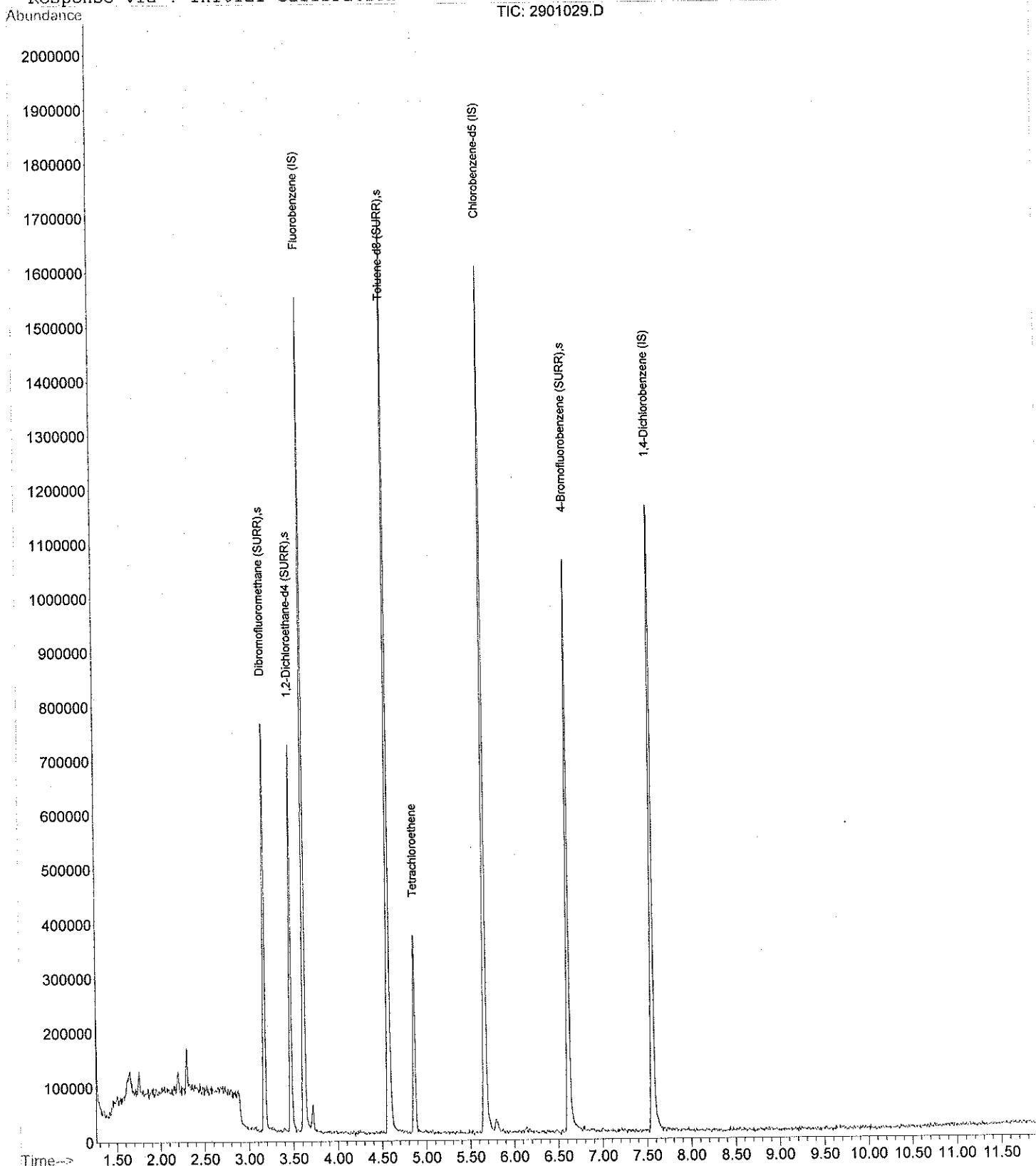
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\2901029.D  
Acq On : 18 Feb 2020 10:06 pm  
Sample : 2269  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:45 2020

Vial: 29  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\3001030.D  
 Acq On : 18 Feb 2020 10:23 pm  
 Sample : 2270  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:45 2020

Vial: 30  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	620983	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	455025	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	152071	50.00	ppb	0.00
<b>System Monitoring Compounds</b>						
26) Dibromofluoromethane (SURR)	3.18	113	267659	58.15	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	116.30%
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	374776	58.28	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	116.56%
42) Toluene-d8 (SURR)	4.57	98	621959	52.01	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	104.02%
62) 4-Bromofluorobenzene (SURR)	6.62	95	267508	44.70	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	89.40%
<b>Target Compounds</b>						<b>Qvalue</b>
50) Tetrachloroethene	4.87	166	74399	7.38	ppb	95

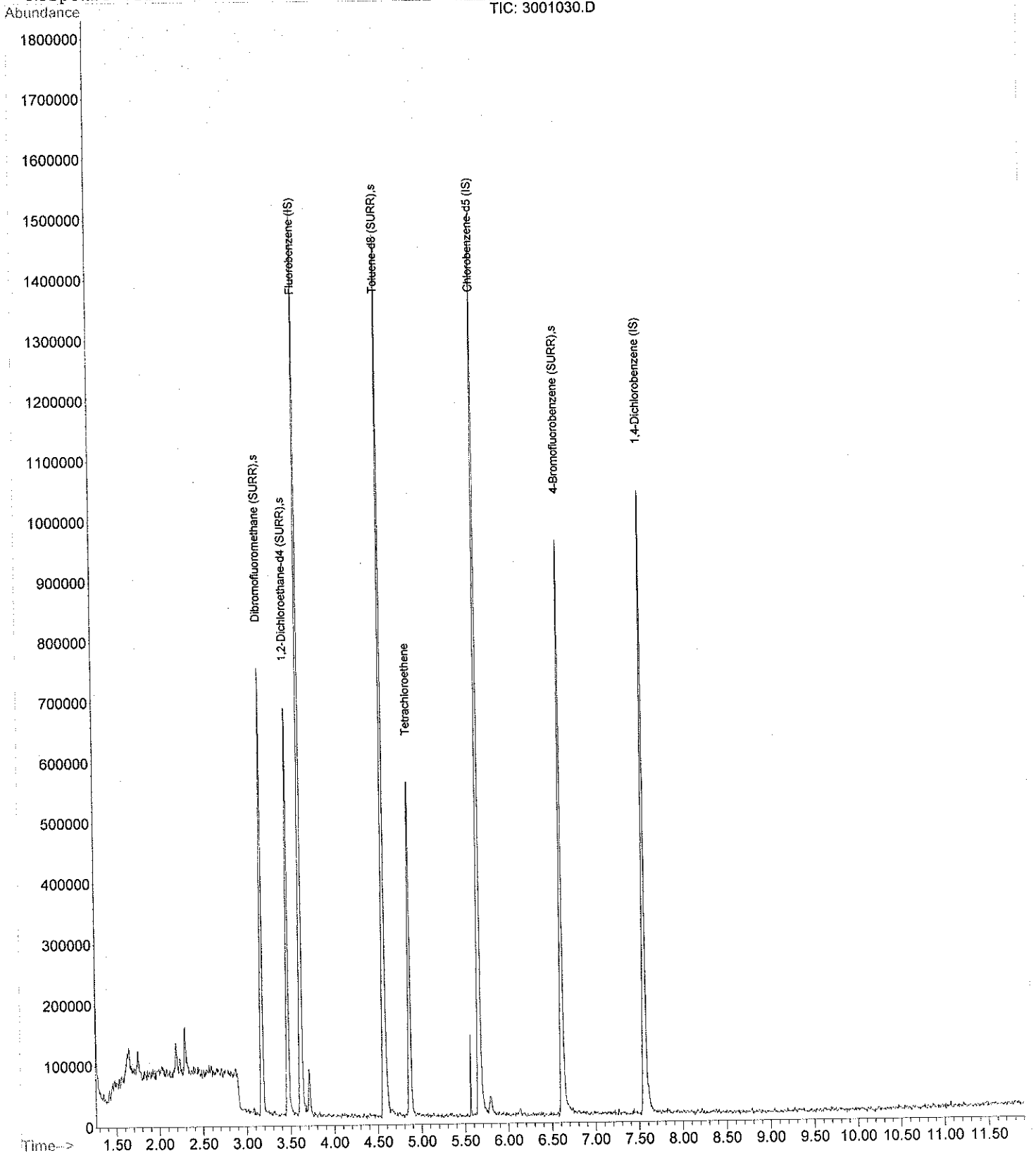
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\3001030.D  
Acq On : 18 Feb 2020 10:23 pm  
Sample : 2270  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:45 2020

Vial: 30  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\3101031.D  
 Acq On : 18 Feb 2020 10:40 pm  
 Sample : 2271  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:46 2020

Vial: 31  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	592672	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	399523	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	118681	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.18	113	244484	55.65	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	111.30%		
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	316609	51.59	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	103.18%		
42) Toluene-d8 (SURR)	4.57	98	577885	50.63	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	101.26%		
62) 4-Bromofluorobenzene (SURR)	6.62	95	229268	43.64	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery =	87.28%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
35) Trichloroethene*	3.72	95	179346	11.22	ppb	97
50) Tetrachloroethene	4.87	166	540473	61.08	ppb	99

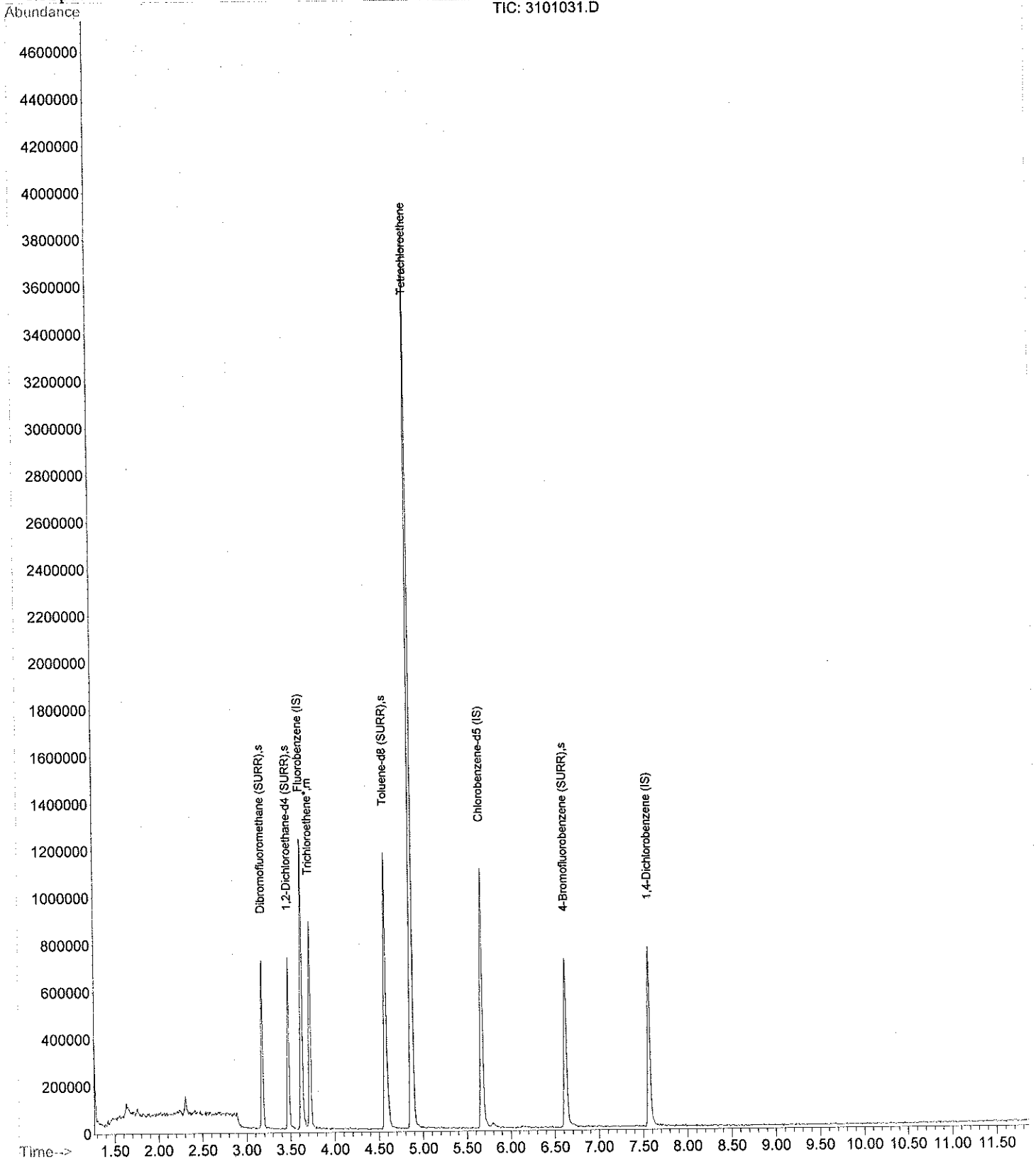
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\3101031.D  
Acq On : 18 Feb 2020 10:40 pm  
Sample : 2271  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:46 2020

Vial: 31  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\3201032.D  
 Acq On : 18 Feb 2020 10:56 pm  
 Sample : 2272  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:47 2020

Vial: 32  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	576281	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	405543	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.57	152	115606	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.18	113	226114	52.93	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery	=	105.86%	
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	303851	50.92	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery	=	101.84%	
42) Toluene-d8 (SURR)	4.57	98	575621	51.86	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery	=	103.72%	
62) 4-Bromofluorobenzene (SURR)	6.62	95	230836	43.28	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery	=	86.56%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
35) Trichloroethene*	3.72	95	519163	33.39	ppb	99
50) Tetrachloroethene	4.87	166	1210326	134.75	ppb	98

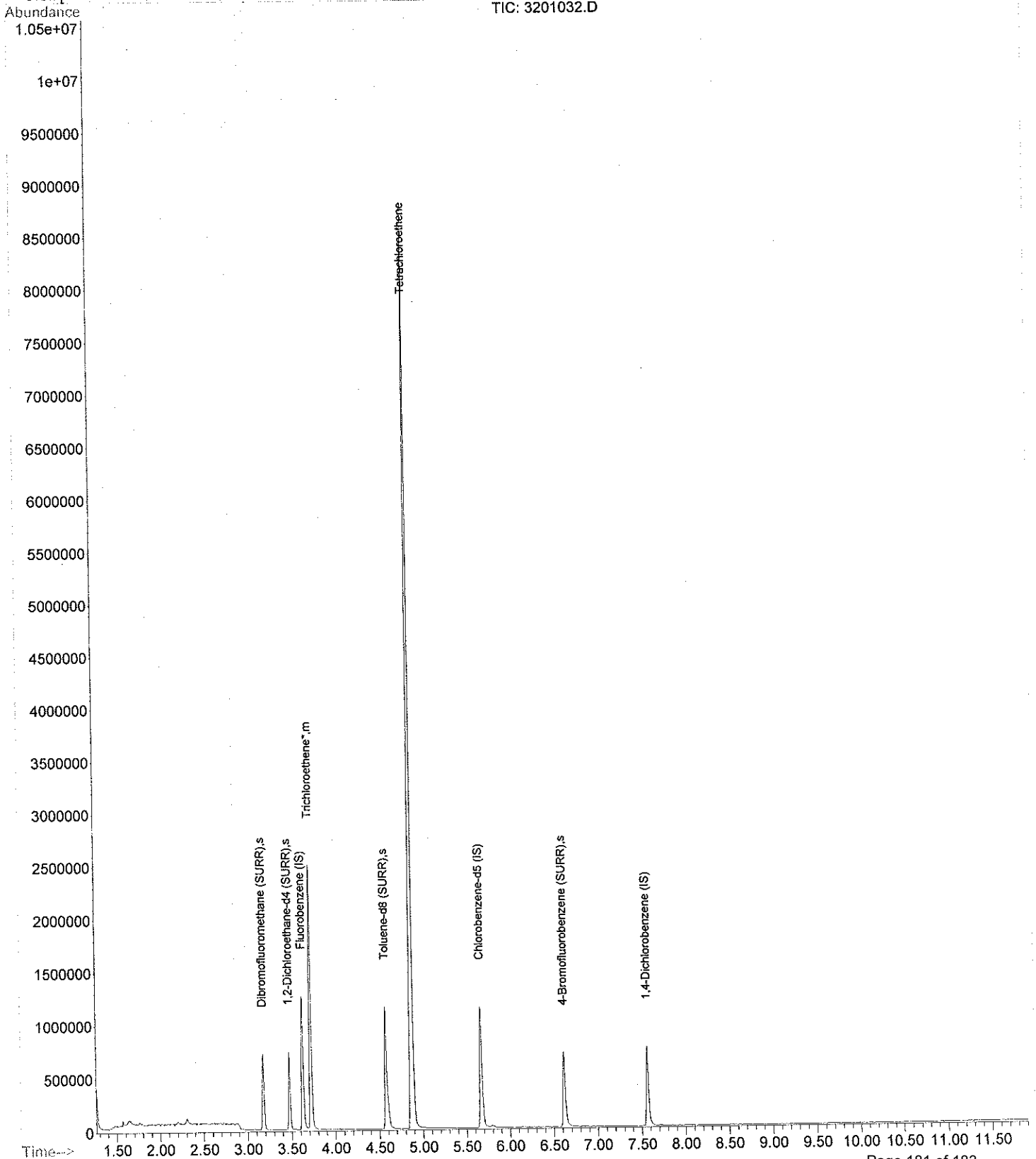
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\3201032.D  
Acq On : 18 Feb 2020 10:56 pm  
Sample : 2272  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:47 2020

Vial: 32  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021820\3301033.D  
 Acq On : 18 Feb 2020 11:13 pm  
 Sample : 2273  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 8:47 2020

Vial: 33  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	598032	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	413791	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.57	152	127964	50.00	ppb	0.00
System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.18	113	225786	50.93	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery	=	101.86%	
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	321026	51.84	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery	=	103.68%	
42) Toluene-d8 (SURR)	4.57	98	584526	50.75	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery	=	101.50%	
62) 4-Bromofluorobenzene (SURR)	6.62	95	247354	45.45	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery	=	90.90%	
Target Compounds						
35) Trichloroethene*	3.72	95	204974	12.70	ppb	97
50) Tetrachloroethene	4.87	166	556262	60.70	ppb	99

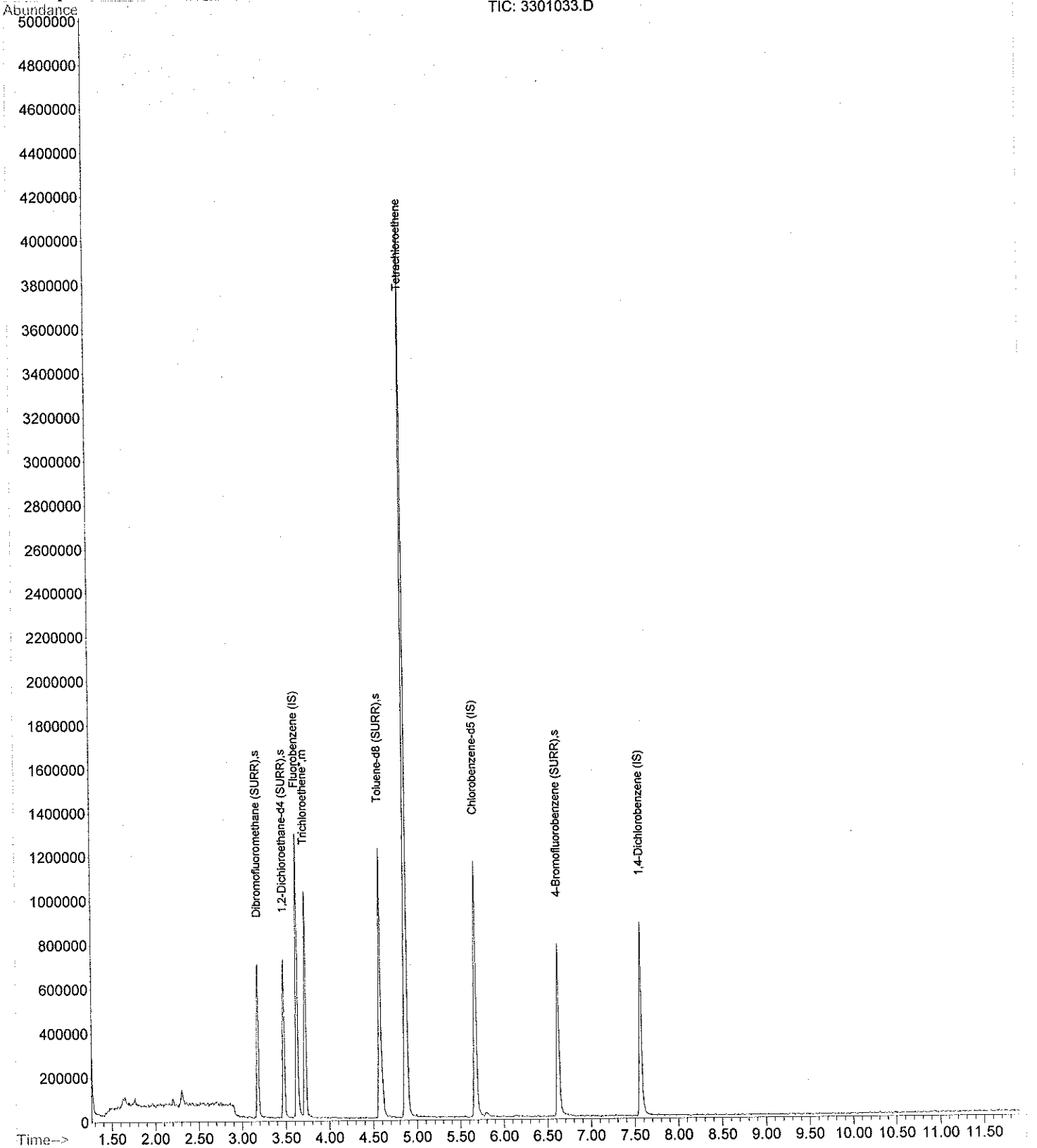
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021820\3301033.D  
Acq On : 18 Feb 2020 11:13 pm  
Sample : 2273  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 8:47 2020

Vial: 33  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





**ENVision Laboratories, Inc.**  
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[www.envisionlaboratories.com](http://www.envisionlaboratories.com)

Mr. Chuck Goodwin  
Ramboll  
One Indiana Square  
Suite 2335  
Indianapolis, IN 46204

February 20, 2020

ENVision Project Number: 2020-369  
Client Project Name: Reed Manufacturing

Dear Mr. Goodwin,

Please find the attached analytical report for the samples received February 19, 2020. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1. All soils collected via Method 5035A are frozen at the laboratory upon receipt.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is written in a cursive, flowing style.

David Norris

Client Services Manager  
ENVision Laboratories, Inc.



Analytical Report

**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 022020VW

**Client Sample ID:** TRIP BLANK      **Sample Collection Date/Time:** 2/19/20  
**Envision Sample Number:** 20-2337      **Sample Received Date/Time:** 2/19/20 15:33  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	



Analytical Report

8260 continued...

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.4	1.4	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	99%		
Toluene-d8 (surrogate)	106%		
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	2-20-20/09:54		
Analyst Initials	gjd		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021920VS

**Client Sample ID:** SW-10      **Sample Collection Date/Time:** 2/19/20 13:17  
**Envision Sample Number:** 20-2338      **Sample Received Date/Time:** 2/19/20 15:33  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.114	0.114	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.057	0.057	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.057	0.057	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00032	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	





8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.114	0.114	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	<b>0.0252</b>	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	<b>0.0698</b>	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	99%		
1,2-Dichloroethane-d4 (surrogate)	96%		
Toluene-d8 (surrogate)	115%		
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	2-19-20/16:16		
Analyst Initials	gjd		
Percent Solids:	88%		

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Client Sample ID:** SW-10      **Sample Collection Date/Time:** 2/19/20      13:17  
**Envision Sample Number:** 20-2338      **Sample Received Date/Time:** 2/19/20      15:33  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	2/20/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021920VS

**Client Sample ID:** SW-11      **Sample Collection Date/Time:** 2/19/20 14:35  
**Envision Sample Number:** 20-2339      **Sample Received Date/Time:** 2/19/20 15:33  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.119	0.119	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.060	0.060	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.060	0.060	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.119	0.119	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	95%		
Toluene-d8 (surrogate)	106%		
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	2-19-20/16:33		
Analyst Initials	gjd		

Percent Solids: 84%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Client Sample ID:** SW-11      **Sample Collection Date/Time:** 2/19/20      14:35  
**Envision Sample Number:** 20-2339      **Sample Received Date/Time:** 2/19/20      15:33  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	2/20/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021920VS

**Client Sample ID:** SW-12      **Sample Collection Date/Time:** 2/19/20      14:40  
**Envision Sample Number:** 20-2340      **Sample Received Date/Time:** 2/19/20      15:33  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.116	0.116	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.058	0.058	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.058	0.058	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.116	0.116	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	<b>0.0229</b>	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	95%		
1,2-Dichloroethane-d4 (surrogate)	92%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	2-19-20/16:49		
Analyst Initials	gjd		

Percent Solids: 86%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Client Sample ID:** SW-12      **Sample Collection Date/Time:** 2/19/20      14:40  
**Envision Sample Number:** 20-2340      **Sample Received Date/Time:** 2/19/20      15:33  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	2/20/20		
Analyst Initials	jc		





**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021920VS

**Client Sample ID:** SW-13      **Sample Collection Date/Time:** 2/19/20 14:44  
**Envision Sample Number:** 20-2341      **Sample Received Date/Time:** 2/19/20 15:33  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.122	0.122	
Acrolein	< 0.00021	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.061	0.061	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.061	0.061	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0021	0.0021	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00034	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.122	0.122	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	<b>0.0161</b>	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	96%		
Toluene-d8 (surrogate)	103%		
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	2-19-20/17:06		
Analyst Initials	gjd		

Percent Solids: 82%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Client Sample ID:** SW-13      **Sample Collection Date/Time:** 2/19/20      14:44  
**Envision Sample Number:** 20-2341      **Sample Received Date/Time:** 2/19/20      15:33  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	2/20/20		
Analyst Initials	jc		



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 021920VS

**Client Sample ID:** B-4      **Sample Collection Date/Time:** 2/19/20 14:48  
**Envision Sample Number:** 20-2342      **Sample Received Date/Time:** 2/19/20 15:33  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.110	0.110	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.055	0.055	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.055	0.055	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.110	0.110	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	<b>0.0488</b>	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	<b>0.0103</b>	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	104%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	2-19-20/17:22		
Analyst Initials	gjd		

Percent Solids: 91%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-369

**Client Sample ID:** B-4      **Sample Collection Date/Time:** 2/19/20      14:48  
**Envision Sample Number:** 20-2342      **Sample Received Date/Time:** 2/19/20      15:33  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	9.0%		EPA 1684
Percent Solids	91.0%		EPA 1684
Analysis Date:	2/20/20		
Analyst Initials	jc		



**EPA 8260 Quality Control Data**

ENVision Batch Number: 021920VS

<b><u>Method Blank (MB):</u></b>	<b><u>MB Results (ug/kg)</u></b>	<b><u>Rep Lim (ug/kg)</u></b>	<b><u>Flag</u></b>
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



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**8260 QC Continued...**

<u>Method Blank (MB)</u>	<u>MB Results (ug/kg)</u>	<u>Rep Lim (ug/kg)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	99%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	2-19-20/11:00		
Analyst Initials	gjd		





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8260 QC Continued...

<u>LCS/LCSD:</u>	<u>LCS Results (ug/kg)</u>	<u>LCS/LCSD Conc. (ug/kg)</u>	<u>LCSD Result (ug/kg)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	52.2	50	58.9	104%	118%	12.1	
1,1-Dichloroethene	46.3	50	53.3	93%	107%	14.1	
trans-1,2-Dichloroethene	46.2	50	53.5	92%	107%	14.6	
Methyl-tert-butyl ether	45.7	50	49.3	91%	99%	7.6	
1,1-Dichloroethane	47.1	50	54.1	94%	108%	13.8	
cis-1,2-Dichloroethene	46.8	50	52.5	94%	105%	11.5	
Chloroform	45.9	50	51.9	92%	104%	12.3	
1,1,1-Trichloroethane	46.7	50	53.8	93%	108%	14.1	
Benzene	48.4	50	58.2	97%	116%	18.4	
Trichloroethene	46.9	50	53.6	94%	107%	13.3	
Toluene	48.7	50	56.0	97%	112%	13.9	
1,1,1,2-Tetrachloroethane	50.2	50	50.0	100%	100%	0.4	
Chlorobenzene	50.1	50	50.9	100%	102%	1.6	
Ethylbenzene	51.5	50	53.0	103%	106%	2.9	
o-Xylene	51.5	50	54.5	103%	109%	5.7	
n-Propylbenzene	50.5	50	51.5	101%	103%	2.0	
Dibromofluoromethane (surrogate)	104%		109%				
1,2-Dichloroethane-d4 (surrogate)	100%		105%				
Toluene-d8 (surrogate)	99%		95%				
4-bromofluorobenzene (surrogate)	109%		100%				
Analysis Date/Time:	2-19-20/10:27		2-19-20/10:44				
Analyst Initials	gjd		gjd				



**EPA 8260 Quality Control Data**

ENVision Batch Number: 022020VW

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



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8260 QC Continued...

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.4	1.4	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	98%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	2-20-20/09:21		
Analyst Initials	tjg		



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8260 QC Continued...

<u>LCS/LCSD</u>	<u>LCS Results (ug/L)</u>	<u>LCS/LCSD Conc. (ug/L)</u>	<u>LCSD Result (ug/L)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	48.3	50	45.3	97%	91%	6.4	
1,1-Dichloroethene	44.9	50	43.6	90%	87%	2.9	
trans-1,2-Dichloroethene	47.2	50	47.5	94%	95%	0.6	
Methyl-tert-butyl-ether	57.3	50	57.0	115%	114%	0.5	
1,1-Dichloroethane	44.3	50	43.8	89%	88%	1.1	
cis-1,2-Dichloroethene	45.0	50	43.7	90%	87%	2.9	
Chloroform	46.2	50	43.8	92%	88%	5.3	
1,1,1-Trichloroethane	44.3	50	43.8	89%	88%	1.1	
Benzene	53.2	50	50.5	106%	101%	5.2	
Trichloroethene	52.9	50	47.8	106%	96%	10.1	
Toluene	52.6	50	51.1	105%	102%	2.9	
1,1,1,2-Tetrachloroethane	46.3	50	44.2	93%	88%	4.6	
Chlorobenzene	47.5	50	46.8	95%	94%	1.5	
Ethylbenzene	48.2	50	46.9	96%	94%	2.7	
o-Xylene	45.3	50	43.3	91%	87%	4.5	
n-Propylbenzene	49.1	50	47.1	98%	94%	4.2	
Dibromofluoromethane (surrogate)	92%		86%				
1,2-Dichloroethane-d4 (surrogate)	111%		103%				
Toluene-d8 (surrogate)	113%		109%				
4-bromofluorobenzene (surrogate)	108%		102%				
Analysis Date/Time:	2-20-20/08:29		2-20-20/08:46				
Analyst Initials	tjg		tjg				



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**Flag Number**

1

**Comments**

Reported value is below the reporting limit but above the MDL.



# CHAIN OF CUSTODY RECORD

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ENVISSION Proj #: 2020-3109 Page 1 of 1

Client: Rambold Invoice Address:

Report: one Indiana Sq Project Name:

Address: 542335 Indiana Sq, In 46234 Reel Manufacturing

Report To: Chuck Graham Lab Contact: David Jones

Phone: 303-382-5473 Sampled by: A. Dreyer

Fax: 6700down@Rambold.com P.O. Number:

Desired TAT: (Please Circle One) 24 hrs QAOQC Required: (circle if applicable) Level III Level IV

1-day 2-day 3-day Std (5-7 bus. days)

### REQUESTED PARAMETERS

VOC 260

Please indicate number of containers per preservative below

**Sample Integrity:**

Cooler Temp: 3 °C

Samples on Ice?  Yes  No

Samples Intact?  Yes  No

Custody Seal:  Yes  No

ENVISSION provided bottles:  Yes  No

VOC vials free of head-space:  Yes  No

pH checked?  Yes  No

Method 5035 collection used?  Yes  No

5035 samples received within 48 hr of collection?  Yes  No

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Other	None	ENVISSION Sample ID
<u>Trip Blank</u>	<u>7/19/20</u>	<u>-</u>	<u>G</u>	<u>SL</u>							<u>20-2337</u>
<u>SW-10</u>	<u>7/19/20</u>	<u>1317</u>	<u>1</u>	<u>1</u>							<u>20-2338</u>
<u>SW-11</u>	<u>7/19/20</u>	<u>1435</u>	<u>1</u>	<u>1</u>							<u>20-2339</u>
<u>SW-12</u>	<u>7/19/20</u>	<u>1440</u>	<u>1</u>	<u>1</u>							<u>20-2340</u>
<u>SW-13</u>	<u>7/19/20</u>	<u>1444</u>	<u>1</u>	<u>1</u>							<u>20-2341</u>
<u>B-4</u>	<u>7/19/20</u>	<u>1448</u>	<u>G</u>	<u>SL</u>							<u>20-2342</u>

Comments:

Relinquished by: Duminda Deyani Rambold Date: 7/19/20 Time: 15:33

Received by: [Signature] Date: 7/19/20 Time: 15:33

## 5035 CHECK-IN SHEET

Client Name: RAMBOLL

ENVision project#: 2020-369

Cooler Temp: 3 °C

Method 5035A used: YES  NO

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES  NO

5035A samples were received within 48 hrs of collection: YES  NO

5035A samples were frozen within 48 hrs of collection by lab: YES  NO

If NO, did client freeze samples? YES  NO

**5035A Table A.1 Reference:**

Sample is extruded into an empty sealed vial and cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$  for no more than 48 hours then frozen to  $< -7^{\circ}\text{C}$  upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES  NO

**5035A Table A.1 Reference:**

Sample is extruded into an empty sealed vial and cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$  for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: LISA LAWSON 02-19-20



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8260 VOC  
Package Review

ENVision Project#: 2020-369

- Sequence Log
- 8260 Soil / Water Limits

Initial Calibration Data

Calibration Curve: 021020RC VOA#1 ✓  
011820RC VOC1 ✓

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- M Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Raw Sample Data (if applicable – Level IV)

*The contents of this Level QA/QC package have been reviewed for completeness and compliance with method requirements.*

QA Manager Signature of approval:





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## 8260 VOC

- Sequence Log
- 8260 Soil / Water Limits

# Injection Log

Directory: C:\HPCHEM1\DATA\021920

VOC  
 Soils  
 "REG"

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	19 Feb 2020 09:53
2	2	0201002.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	19 Feb 2020 10:10
3	3	0301003.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	19 Feb 2020 10:27
4	4	0401004.D	1.	LCS 50ppb	092319 VOC1 curve, 8260 ical	19 Feb 2020 10:44
5	5	0501005.D	1.	MB	092319 VOC1 curve, 8260 ical	19 Feb 2020 11:00
6	6	0601006.D	1.	2146	092319 VOC1 curve, 8260 ical	19 Feb 2020 11:17
7	7	0701007.D	1.	2281 idm wt	092319 VOC1 curve, 8260 ical	19 Feb 2020 11:34
8	8	0801008.D	1.	2282 idm wt	092319 VOC1 curve, 8260 ical	19 Feb 2020 11:51
9	9	0901009.D	1.	2243	092319 VOC1 curve, 8260 ical	19 Feb 2020 12:07
10	10	1001010.D	1.	2245	092319 VOC1 curve, 8260 ical	19 Feb 2020 12:24
11	11	1101011.D	1.	2247	092319 VOC1 curve, 8260 ical	19 Feb 2020 12:41
12	12	1201012.D	1.	2250	092319 VOC1 curve, 8260 ical	19 Feb 2020 12:58
13	13	1301013.D	1.	2234:50	092319 VOC1 curve, 8260 ical	19 Feb 2020 13:14
14	14	1401014.D	1.	2235:50	092319 VOC1 curve, 8260 ical	19 Feb 2020 13:31
15	15	1501015.D	1.	2236:50	092319 VOC1 curve, 8260 ical	19 Feb 2020 13:48
16	16	1601016.D	1.	2237:50	092319 VOC1 curve, 8260 ical	19 Feb 2020 14:04
17	17	1701017.D	1.	2239:5000	092319 VOC1 curve, 8260 ical	19 Feb 2020 14:21
18	18	1801018.D	1.	2240:5000	092319 VOC1 curve, 8260 ical	19 Feb 2020 14:37
19	19	1901019.D	1.	2239:50	092319 VOC1 curve, 8260 ical	19 Feb 2020 15:42
20	20	2001020.D	1.	2240:50	092319 VOC1 curve, 8260 ical	19 Feb 2020 15:59
21	21	2101021.D	1.	2338 rush ✓	092319 VOC1 curve, 8260 ical	19 Feb 2020 16:16
22	22	2201022.D	1.	2339 rush ✓	092319 VOC1 curve, 8260 ical	19 Feb 2020 16:33
23	23	2301023.D	1.	2340 rush ✓	092319 VOC1 curve, 8260 ical	19 Feb 2020 16:49
24	24	2401024.D	1.	2341 rush ✓	092319 VOC1 curve, 8260 ical	19 Feb 2020 17:06
25	25	2501025.D	1.	2342 rush ✓	092319 VOC1 curve, 8260 ical	19 Feb 2020 17:22

# Injection Log

Directory: C:\HPCHEM\1\DATA\022020

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	WAKEUP	QC	20 Feb 2020 07:54
2	2	0201002.D	1.	BFB/CCV 50PPB	QC	20 Feb 2020 08:11
3	3	0301003.D	1.	LCS 50PPB	QC	20 Feb 2020 08:29
4	4	0401004.D	1.	LCSD 50PPB	QC	20 Feb 2020 08:46
5	5	0501005.D	1.	LCSDD 50PPB	QC	20 Feb 2020 09:04
6	6	0601006.D	1.	MB	QC	20 Feb 2020 09:21
7	7	0701007.D	1.	20-2226:10	A	20 Feb 2020 09:37
8	8	0801008.D	1.	20-2337 RUSH TB ✓	A	20 Feb 2020 09:54
9	9	0901009.D	1.	20-2274	A	20 Feb 2020 10:10
10	10	1001010.D	1.	20-2275	A	20 Feb 2020 10:26
11	11	1101011.D	1.	20-2279 EB	A	20 Feb 2020 10:42
12	12	1201012.D	1.	20-2280 TB	A	20 Feb 2020 10:59
13	13	1301013.D	1.	20-2277	A	20 Feb 2020 11:15
14	14	1401014.D	1.	20-2277:50	A	20 Feb 2020 11:31
15	15	1501015.D	1.	20-2278 DUP	A	20 Feb 2020 11:48
16	16	1601016.D	1.	20-2278:50 DUP	A	20 Feb 2020 12:04
17	17	1701017.D	1.	20-2298:20	A	20 Feb 2020 12:20
18	18	1801018.D	1.	20-2298	A	20 Feb 2020 12:36
19	19	1901019.D	1.	20-2301 DUP	A	20 Feb 2020 12:53
20	20	2001020.D	1.	20-2301:20 DUP	A	20 Feb 2020 13:09
21	21	2101021.D	1.	20-2302 TB	A	20 Feb 2020 13:25
22	22	2201022.D	1.	20-2298:200	A	20 Feb 2020 13:42
23	23	2301023.D	1.	20-2301:200	A	20 Feb 2020 13:58
24	24	2401024.D	1.	20-2300	A	20 Feb 2020 14:14
25	25	2501025.D	1.	20-2303	A	20 Feb 2020 14:30
26	26	2601026.D	1.	20-2304	A	20 Feb 2020 14:46
27	27	2701027.D	1.	20-2305	A	20 Feb 2020 15:02
28	28	2801028.D	1.	20-2306	A	20 Feb 2020 15:18
29	29	2901029.D	1.	20-2307	A	20 Feb 2020 15:34
30	30	3001030.D	1.	20-2308	A	20 Feb 2020 15:50
31	31	3101031.D	1.	20-2309	A	20 Feb 2020 16:06
32	32	3201032.D	1.	20-2310	A	20 Feb 2020 16:22
33	33	3301033.D	1.	20-2311	A	20 Feb 2020 16:38
34	34	3401034.D	1.	20-2312	A	20 Feb 2020 16:54
35	35	3501035.D	1.	20-2313:50	A	20 Feb 2020 17:10
36	36	3601036.D	1.	20-2313:500	A	20 Feb 2020 17:27
37	37	3701037.D	1.	20-2314:50	A	20 Feb 2020 17:43
38	38	3801038.D	1.	20-2314:500	A	20 Feb 2020 18:00
39	39	3901039.D	1.	20-2315	A	20 Feb 2020 18:16
40	40	4001040.D	1.	20-2315:10	A	20 Feb 2020 18:34
41	41	4101041.D	1.	20-2316	A	20 Feb 2020 18:51
42	42	4201042.D	1.	20-2316:10	A	20 Feb 2020 19:09
43	43	4301043.D	1.	20-2316:50	A	20 Feb 2020 19:26
44	44	4401044.D	1.	BFB 50PPB	QC	20 Feb 2020 19:44
45	45	4501045.D	1.	BFB/CCV 50PPB	QC	20 Feb 2020 20:01
46	46	4601046.D	1.	LCS 50PPB	QC	20 Feb 2020 20:19
47	47	4701047.D	1.	LCSD 50PPB	QC	20 Feb 2020 20:36
48	48	4801048.D	1.	LCSDD 50PPB	QC	20 Feb 2020 20:54
49	49	4901049.D	1.	MB	QC	20 Feb 2020 21:11
50	50	5001050.D	1.	MB	QC	20 Feb 2020 21:29
51	51	5101051.D	1.	20-2317	A	20 Feb 2020 21:46
52	52	5201052.D	1.	20-2318	A	20 Feb 2020 22:03
53	53	5301053.D	1.	20-2318:10	A	20 Feb 2020 22:21
54	54	5401054.D	1.	20-2319	A	20 Feb 2020 22:38
55	55	5501055.D	1.	20-2319:50	A	20 Feb 2020 22:56



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8260 Volatiles Statistical Control Limits - Effective 11/2016

Surrogate	Water Limits % Rec.	Soil Limits % Rec.
Dibromofluoromethane (surrogate)	73-125	72-128
1,2-Dichloroethane-d4 (surrogate)	74-124	71-129
Toluene-d8 (surrogate)	73-126	70-128
4-bromofluorobenzene (surrogate)	75-125	74-127

LCS	Water Limits % Rec.	Soil Limits % Rec.
Vinyl Chloride	79-127	76-132
1,1-Dichloroethene	79-122	75-123
trans-1,2-Dichloroethene	79-125	72-123
Methyl-tert-butyl-ether	71-122	75-128
1,1-Dichloroethane	78-120	72-122
cis-1,2-Dichloroethene	78-121	76-122
Chloroform	77-120	79-125
1,1,1-Trichloroethane	72-122	75-129
Benzene	78-127	72-126
Trichloroethene	79-120	72-122
Toluene	79-122	73-120
1,1,1,2-Tetrachloroethane	76-121	72-121
Chlorobenzene	79-125	73-127
Ethylbenzene	79-122	74-125
o-Xylene	78-122	79-129
N-propylbenzene	78-125	76-128

MS/MSD	Water Limits % Rec.	Soil Limits % Rec.
Vinyl Chloride	78-12	72-136
1,1-Dichloroethene	79-123	73-127
trans-1,2-Dichloroethene	79-125	62-129
Methyl-tert-butyl-ether	71-122	64-124
1,1-Dichloroethane	77-124	71-123
cis-1,2-Dichloroethene	79-122	78-127
Chloroform	79-121	69-122
1,1,1-Trichloroethane	70-122	69-122
Benzene	78-130	78-127
Trichloroethene	78-124	79-122
Toluene	78-126	65-147
1,1,1,2-Tetrachloroethane	79-120	71-121
Chlorobenzene	79-123	75-113
Ethylbenzene	78-120	72-114
o-Xylene	77-122	75-126
N-propylbenzene	77-120	74-122



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## 8260 VOC Initial Calibration Data

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

# Injection Log

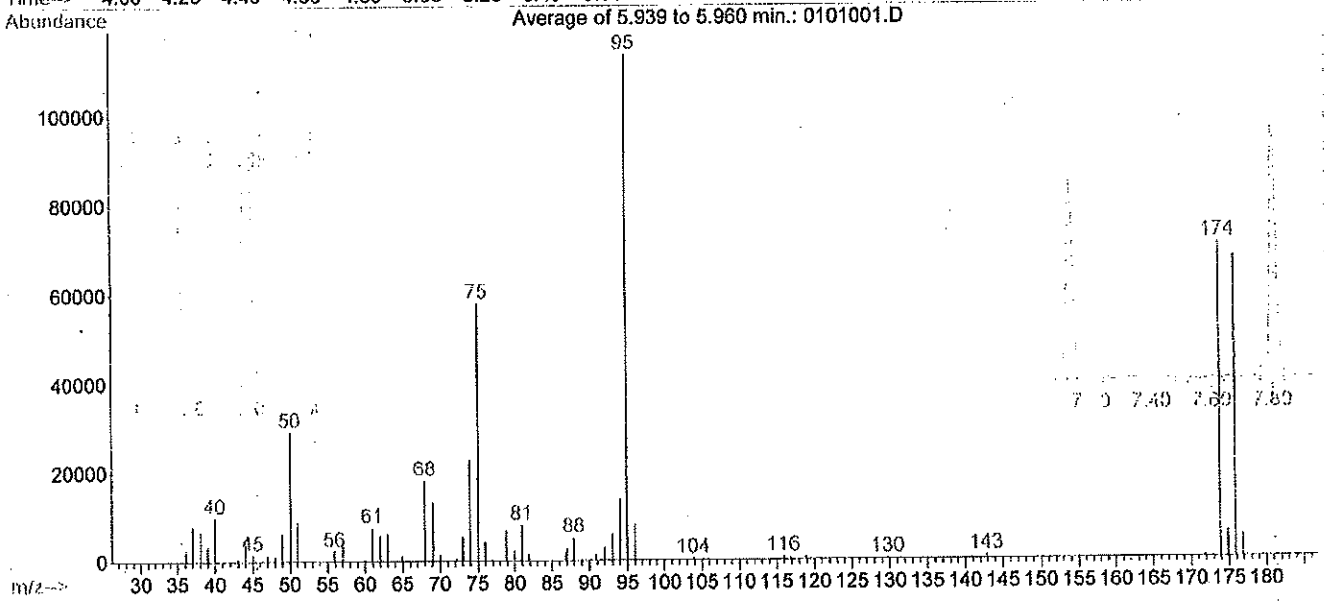
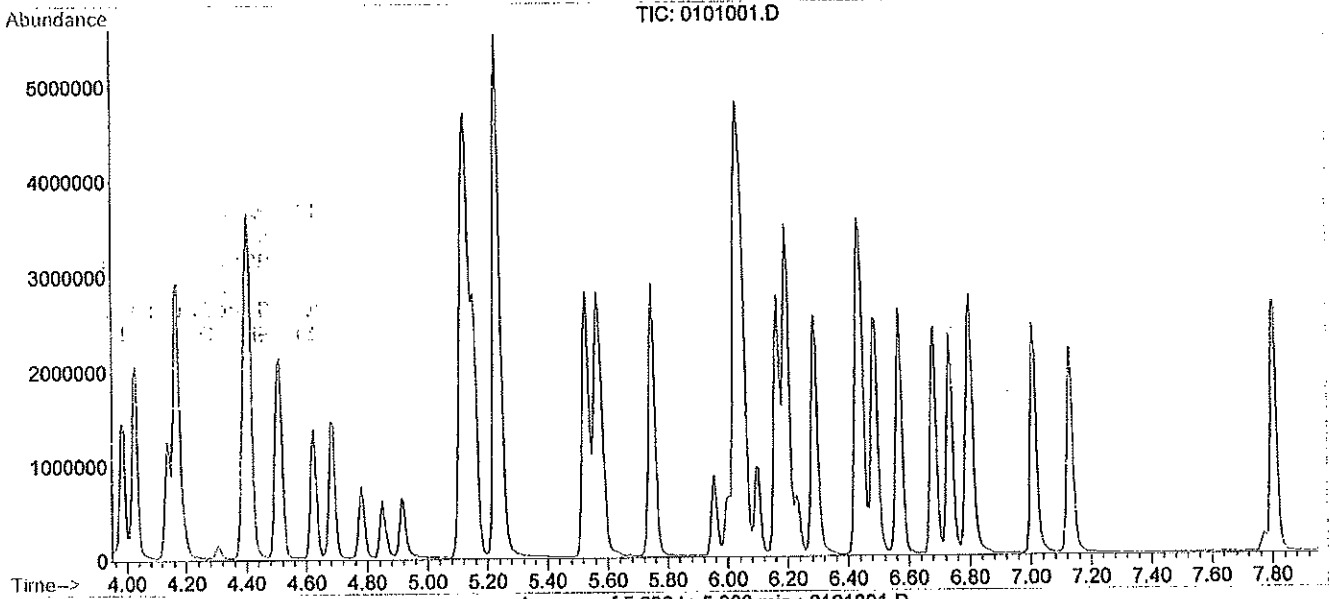
Directory: C:\HPCHEM\1\DATA\021020

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	50PPB 8260 ICAL/BFB TUNE	A	10 Feb 2020 15:21
2	2	0201002.D	1.	1PPB 8260 ICAL	A	10 Feb 2020 15:39
3	3	0301003.D	1.	5PPB 8260 ICAL	A	10 Feb 2020 15:56
4	4	0401004.D	1.	10PPB 8260 ICAL	A	10 Feb 2020 16:13
5	5	0501005.D	1.	20PPB 8260 ICAL	A	10 Feb 2020 16:30
6	6	0601006.D	1.	100PPB 8260 ICAL	A	10 Feb 2020 16:48
7	7	0701007.D	1.	B	A	10 Feb 2020 17:05
8	8	0801008.D	1.	200PPB 8260 ICAL	A	10 Feb 2020 17:22
9	9	0901009.D	1.	B	A	10 Feb 2020 17:39
10	10	1001010.D	1.	50PPB 8260 ICV/LCS	A	10 Feb 2020 17:56
11	11	1101011.D	1.	50PPB 8260 LCS	A	10 Feb 2020 18:13
12	12	1201012.D	1.	MB	A	10 Feb 2020 18:30
13	13	1301013.D	1.	MB	A	10 Feb 2020 18:47
14	14	1401014.D	1.	20-1836 TB	A	10 Feb 2020 19:05
15	15	1501015.D	1.	20-1832	A	10 Feb 2020 19:22
16	16	1601016.D	1.	20-1833	A	10 Feb 2020 19:39
17	17	1701017.D	1.	20-1834	A	10 Feb 2020 19:56
18	18	1801018.D	1.	20-1834:20	A	10 Feb 2020 20:13
19	19	1901019.D	1.	20-1835	A	10 Feb 2020 20:30
20	20	2001020.D	1.	20-1837	A	10 Feb 2020 20:47
21	21	2101021.D	1.	20-1838	A	10 Feb 2020 21:05
22	22	2201022.D	1.	20-1839	A	10 Feb 2020 21:22
23	23	2301023.D	1.	20-1840	A	10 Feb 2020 21:39
24	24	2401024.D	1.	20-1847	A	10 Feb 2020 21:56
25	25	2501025.D	1.	20-1848	A	10 Feb 2020 22:13
26	26	2601026.D	1.	20-1849	A	10 Feb 2020 22:30
27	27	2701027.D	1.	20-1868	A	10 Feb 2020 22:47
28	28	2801028.D	1.	20-1850	A	10 Feb 2020 23:04
29	29	2901029.D	1.	20-1849	A	10 Feb 2020 23:21
30	30	3001001.D	1.	20-1875 TB RUSH	A	10 Feb 2020 23:42
31		3001030.D	1.			10 Feb 2020 24:00
32	31	3101001.D	1.	20-1811 CONFIRMATION CLEAN	A	10 Feb 2020 24:17

BFB

Data File : C:\HPCHEM\1\DATA\021020\0101001.D  
Acq On : 10 Feb 2020 3:21 pm  
Sample : 50PPB 8260 ICAL/BFB TUNE  
Misc : A  
MS Integration Params: EVENTS.E  
Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :

Vial: 1  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00



Spectrum Information: Average of 5.939 to 5.960 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.7	29181	PASS
75	95	30	60	51.1	58042	PASS
95	95	100	100	100.0	113604	PASS
96	95	5	9	7.3	8265	PASS
173	174	0.00	2	0.5	345	PASS
174	95	50	100	62.2	70639	PASS
175	174	5	9	8.6	6069	PASS
176	174	95	101	95.8	67705	PASS
177	176	5	9	7.7	5209	PASS

Response Factor Report VOA #1

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration

Calibration Files  
 5 =0301003.D 100 =0601006.D 20 =0501005.D  
 10 =0401004.D 200 =0801008.D 1 =0201002.D

Compound	5	100	20	10	200	1	Avg	%RSD
-----ISTD-----								
1) Fluorobenzene (IS)								
2) Dichlorodifluoromet	1.533	1.937	1.770	1.954	1.833		1.836	9.26
3) Chloromethane	1.607	1.738	1.646	1.895	1.619		1.722	6.89
4) Vinyl Chloride (CCC	1.460	1.525	1.318	1.466	1.394	1.656	1.483	7.44
5) Bromomethane	0.867	0.972	0.950	0.996	0.968		0.960	5.25
6) Chloroethane	0.418	0.533	0.510	0.493	0.498		0.499	8.89
7) Acrolein	0.519	0.481	0.472	0.545	0.463		0.491	6.85
8) Trichlorofluorometh	1.275	1.326	1.288	1.229	1.178		1.272	4.72
9) Acetone	0.083	0.100	0.090	0.084	0.093		0.091	7.70
10) 1,1-Dichloroethene	1.255	1.204	1.091	1.377	1.054		1.201	9.73
11) Acrylonitrile	0.903	1.134	1.011	1.102	1.002		1.046	8.62
12) Iodomethane	1.065	1.241	1.080	1.150	1.132		1.148	6.28
13) Methylene Chloride	1.212	1.176	1.091	1.271	1.064		1.165	6.58
14) Carbon Disulfide	2.684	2.594	2.318	2.908	2.293		2.570	9.05
15) trans-1,2-Dichloroe	0.633	0.671	0.613	0.735	0.626		0.657	6.78
16) Methyl-tert-butyl e	0.685	0.820	0.692	0.708	0.749		0.731	6.82
17) 1,1-Dichloroethane	1.318	1.282	1.299	1.358	1.172		1.298	5.32
18) Vinyl Acetate	1.074	1.252	1.012	1.271	1.157		1.155	8.68
19) n-Hexane	0.744	0.766	0.710	0.797	0.683		0.743	5.51
20) n-Butanol	0.241	0.289	0.265	0.264	0.256		0.263	5.92
21) 2-Butanone (MEK)	0.178	0.187	0.163	0.175	0.176		0.175	4.73
22) cis-1,2-Dichloroeth	0.990	0.964	0.921	1.052	0.843		0.957	7.34
23) Bromochloromethane	0.273	0.316	0.293	0.289	0.287		0.295	5.64
24) Chloroform	1.442	1.372	1.274	1.457	1.213		1.358	7.09
25) 2,2-Dichloropropane	0.949	1.003	0.903	0.972	0.903		0.956	4.79
26) S Dibromofluoromethan	0.344	0.374	0.335	0.387	0.331		0.355	6.34
27) S 1,2-Dichloroethane-	0.420	0.479	0.425	0.449	0.446		0.443	4.73
28) 1,2-Dichloroethane	1.142	1.246	1.134	1.167	1.136		1.173	3.95
29) 1,1,1-Trichloroetha	1.101	1.089	1.014	1.126	0.979		1.063	5.26
30) 1,1-Dichloropropene	1.000	1.056	0.912	1.060	1.000		1.009	5.37
31) Carbon Tetrachlorid	1.055	1.051	0.945	1.092	0.946		1.026	6.21
32) Benzene	2.297	2.835	2.420	2.588	2.764		2.590	7.88
33) Dibromomethane	0.488	0.550	0.480	0.529	0.532		0.515	5.29
34) 1,2-Dichloropropane	0.703	0.822	0.705	0.761	0.796		0.766	6.87
35) Trichloroethene	0.714	0.804	0.702	0.797	0.738		0.758	6.01
36) Bromodichloromethan	1.174	1.278	1.124	1.181	1.223		1.205	4.67
37) 2-Chloroethyl-vinyl	0.170	0.221	0.177	0.180	0.219		0.190	12.55
38) cis-1,3-Dichloropro	1.037	1.253	1.038	1.062	1.239		1.126	8.78
39) 4-Methyl-2-Pentanon	0.407	0.493	0.541	0.472	0.465		0.467	10.41
40) trans-1,3-Dichlorop	0.963	1.071	1.065	1.150	1.029		1.049	6.02
41) 1,1,2-Trichloroetha	0.441	0.534	0.442	0.489	0.495		0.481	7.35
42) S Toluene-d8 (SURR)	0.808	0.994	0.808	0.795	0.869		0.872	9.80
43) Toluene	2.267	2.723	2.258	2.505	2.645		2.485	7.70
44) Ethyl Methacrylate	0.576	0.622	0.501	0.562	0.626		0.572	8.25
45) 1,3-Dichloropropane	0.818	0.984	0.809	0.793	0.922		0.866	8.64
46) 2-Hexanone	0.283	0.331	0.322	0.295	0.316		0.302	8.20
-----ISTD-----								
47) Chlorobenzene-d5 (IS)								
48) Dibromochloromethan	1.158	1.145	1.089	1.100	1.117		1.122	2.34
49) 1,2-Dibromoethane (	0.894	0.862	0.886	0.833	0.865		0.867	2.45
50) Tetrachloroethene (	0.975	0.846	0.865	0.857	0.804		0.866	6.63
51) 1,1,1,2-Tetrachloro	1.096	0.923	0.937	0.952	0.921	1.071	0.980	7.39
52) Chlorobenzene	2.745	2.509	2.650	2.577	2.533		2.598	3.33
53) Ethylbenzene	4.690	4.150	4.137	4.111	4.179		4.261	5.17
54) m,p-Xylene	3.398	3.140	3.395	3.446	2.860		3.268	6.94
55) o-Xylene	2.944	3.327	3.377	3.712	3.369		3.311	7.80
56) Bromoform	0.508	0.530	0.519	0.534	0.521		0.520	1.99
57) Styrene	2.138	2.468	2.365	2.153	2.549		2.357	7.39
58) 1,1,2,2-Tetrachloro	0.950	0.915	0.906	0.875	0.864	1.122	0.928	9.85
59) trans-1,4-Dichloro-	0.277	0.251	0.254	0.223	0.237		0.249	7.35
60) 1,2,3-Trichloroprop	0.688	0.734	0.820	0.765	0.704		0.748	6.57
61) Isopropylbenzene	2.822	3.486	3.295	3.044	3.665		3.311	9.78
62) S 4-Bromofluorobenzen	0.560	0.545	0.509	0.436	0.482		0.510	8.93
63) Bromobenzene	1.038	0.952	1.005	0.941	0.947		0.976	3.92
64) n-Propylbenzene	4.894	4.723	4.769	4.749	4.508		4.736	2.67
65) 2-Chlorotoluene	3.296	3.196	3.247	3.018	3.216		3.212	3.22



66)	4-Chlorotoluene	0.878	0.868	0.847	0.743	0.930	0.868	8.22	
67)	1,4-Dichlorobenzene-d	-----ISTD-----							
68)	1,3,5-Trimethylbenz	3.865	3.227	3.871	3.907	3.281	3.597	8.86	
69)	tert-Butylbenzene	3.567	3.122	3.538	3.546	3.180	3.373	5.97	
70)	1,2,4-Trimethylbenz	3.612	3.073	3.506	3.855	3.279	3.431	8.22	
71)	sec-Butylbenzene	4.549	3.997	4.653	4.757	4.075	4.356	7.67	
72)	1,3-Dichlorobenzene	1.987	1.868	2.145	2.280	1.877	1.996	9.11	
73)	1,4-Dichlorobenzene	1.395	1.190	1.466	1.392	1.316	1.327	8.39	
74)	p-Isopropyltoluene	2.704	2.913	3.290	3.091	2.917	2.986	6.58	
75)	1,2-Dichlorobenzene	2.071	1.705	1.929	2.037	1.767	1.874	8.56	
76)	n-Butylbenzene	2.711	3.214	3.494	3.363	3.320	3.234	8.41	
77)	1,2-Dibromo-3-chlor	0.058	0.067	0.066	0.066	0.054	0.064	9.70	
78)	1,2,4-Trichlorobenz	0.669	0.738	0.789	0.659	0.724	0.718	6.65	
79)	Naphthalene	1.012	1.064	1.134	0.956	1.039	0.935	1.022	
80)	Hexachloro-1,3-buta	0.276	0.299	0.339	0.330	0.289	0.305	8.10	
81)	1,2,3-Trichlorobenz	0.569	0.572	0.599	0.578	0.570	0.571	3.34	
82)	1-Methylnapthalene	0.122	0.141	0.138	0.121	0.139	0.136	9.70	
83)	2-Methylnapthalene	0.108	0.131	0.117	0.105	0.116	0.117	8.24	

(#) = Out of Range ### Number of calibration levels exceeded format ###

021020RG.M Mon Feb 17 16:16:22 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0201002.D  
 Acq On : 10 Feb 2020 3:39 pm  
 Sample : 1PPB 8260 ICAL  
 Misc : A  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:52 2020

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:51:45 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6362114	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4022790	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.80	150	2399545	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2513836	52.88	ug/L	0.00
Spiked Amount	50.000	Range	74 - 132	Recovery	=	105.76%
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2929190	49.48	ug/L	0.00
Spiked Amount	50.000	Range	77 - 134	Recovery	=	98.96%
42) Toluene-d8 (SURR)	4.14	98	5500480	46.59	ug/L	0.00
Spiked Amount	50.000	Range	67 - 130	Recovery	=	93.18%
62) 4-Bromofluorobenzene (SURR)	5.96	95	1847955	43.72	ug/L	0.00
Spiked Amount	50.000	Range	65 - 133	Recovery	=	87.44%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	204453	0.80	ug/L	98
3) Chloromethane	1.16	50	269493	1.13	ug/L #	89
4) Vinyl Chloride (CCC)	1.20	62	245671	1.33	ug/L	97
5) Bromomethane	1.38	94	155996	1.17	ug/L	88
6) Chloroethane	1.45	64	51554	0.72	ug/L #	69
7) Acrolein	2.16	56	83801	1.30	ug/L #	76
8) Trichlorofluoromethane	1.53	101	108691	0.67	ug/L #	18
9) Acetone	2.08	43	132259	10.70	ug/L #	87
10) 1,1-Dichloroethene	1.78	61	112928	0.70	ug/L #	58
11) Acrylonitrile	2.40	53	192878	1.38	ug/L	93
12) Iodomethane	1.85	142	123087	0.81	ug/L #	92
13) Methylene Chloride	2.05	49	187580	1.21	ug/L	91
14) Carbon Disulfide	1.80	76	349028	1.08	ug/L #	75
15) trans-1,2-Dichloroethene	2.13	96	127216	1.45	ug/L	93
16) Methyl-tert-butyl ether (M)	2.17	73	116372	1.19	ug/L #	90
17) 1,1-Dichloroethane	2.41	63	209445	1.21	ug/L #	86
18) Vinyl Acetate	2.51	43	115330	0.79	ug/L #	86
19) n-Hexane	2.16	57	122775	1.23	ug/L #	78
20) n-Butanol	2.51	57	39627	1.17	ug/L #	87
21) 2-Butanone (MEK)	2.94	43	94856	4.11	ug/L #	53
22) cis-1,2-Dichloroethene	2.66	61	181373	1.42	ug/L	93
23) Bromochloromethane	2.76	128	39931	1.01	ug/L #	1
24) Chloroform	2.79	83	212643	1.17	ug/L #	95
25) 2,2-Dichloropropane	2.71	77	160640	1.26	ug/L #	1
28) 1,2-Dichloroethane	3.18	62	224787	1.43	ug/L #	67
29) 1,1,1-Trichloroethane	2.90	97	158827	1.12	ug/L	93
30) 1,1-Dichloropropene	2.95	75	171715	1.27	ug/L	94
31) Carbon Tetrachloride	2.86	117	137641	1.00	ug/L #	88
32) Benzene	3.08	78	413862	1.20	ug/L #	1
33) Dibromomethane	3.59	93	76182	1.11	ug/L #	51
34) 1,2-Dichloropropane	3.65	63	114595	1.12	ug/L #	97
35) Trichloroethene	3.28	95	626123	6.18	ug/L #	43
36) Bromodichloromethane	3.67	83	177740	1.11	ug/L	88
38) cis-1,3-Dichloropropene	4.03	75	127752	0.88	ug/L	94
39) 4-Methyl-2-Pentanone (MIBK)	4.40	43	57615	1.10	ug/L #	55
40) trans-1,3-Dichloropropene	4.42	75	95713	0.78	ug/L #	81
41) 1,1,2-Trichloroethane	4.51	83	46682	0.73	ug/L #	72
43) Toluene	4.17	91	388006	1.17	ug/L	93
44) Ethyl Methacrylate	4.51	69	41136	0.65	ug/L #	42
45) 1,3-Dichloropropane	4.69	76	117534	1.02	ug/L #	50
46) 2-Hexanone	4.92	43	20290	0.57	ug/L #	47
48) Dibromochloromethane	4.63	129	115077	1.27	ug/L #	84
49) 1,2-Dibromoethane (EDB)	4.78	107	83207	1.19	ug/L #	89
50) Tetrachloroethene (PCE)	4.40	166	81902	1.18	ug/L	90

(#) = qualifier out of range (m) = manual integration  
 0201002.D 021020RC.M Mon Feb 17 16:16:44 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0201002.D  
 Acq On : 10 Feb 2020 3:39 pm  
 Sample : 1PPB-8260 ICAL  
 Misc : A  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:52 2020

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:51:45 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Page

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 1,1,1,2-Tetrachloroethane	5.16	131	86168	1.11	ug/L #	75
52) Chlorobenzene	5.12	112	303453	1.45	ug/L	91
53) Ethylbenzene	5.14	91	404740	1.18	ug/L	94
54) m,p-Xylene	5.24	91	444003	1.68	ug/L	97
55) o-Xylene	5.53	91	169189	0.67	ug/L #	72
56) Bromoform	5.58	173	41372	0.99	ug/L #	80
57) Styrene	5.57	104	155087	0.84	ug/L #	86
58) 1,1,2,2-Tetrachloroethane	6.11	83	90294	1.26	ug/L	
61) Isopropylbenzene	5.75	105	198057	0.74	ug/L #	1
63) Bromobenzene	6.04	156	137219	1.75	ug/L	90
64) n-Propylbenzene	6.06	91	523722	1.37	ug/L	94
65) 2-Chlorotoluene	6.17	91	379594	1.47	ug/L	91
66) 4-Chlorotoluene	6.29	126	73785	1.09	ug/L #	84
68) 1,3,5-Trimethylbenzene	6.19	105	156139	0.90	ug/L #	77
69) tert-Butylbenzene	6.44	119	176752	1.09	ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	196807	1.20	ug/L #	1
71) sec-Butylbenzene	6.49	105	196800	0.94	ug/L #	62
72) 1,3-Dichlorobenzene	6.74	146	207862	2.11	ug/L	96
79) Naphthalene	8.61	128	48808	1.00	ug/L	

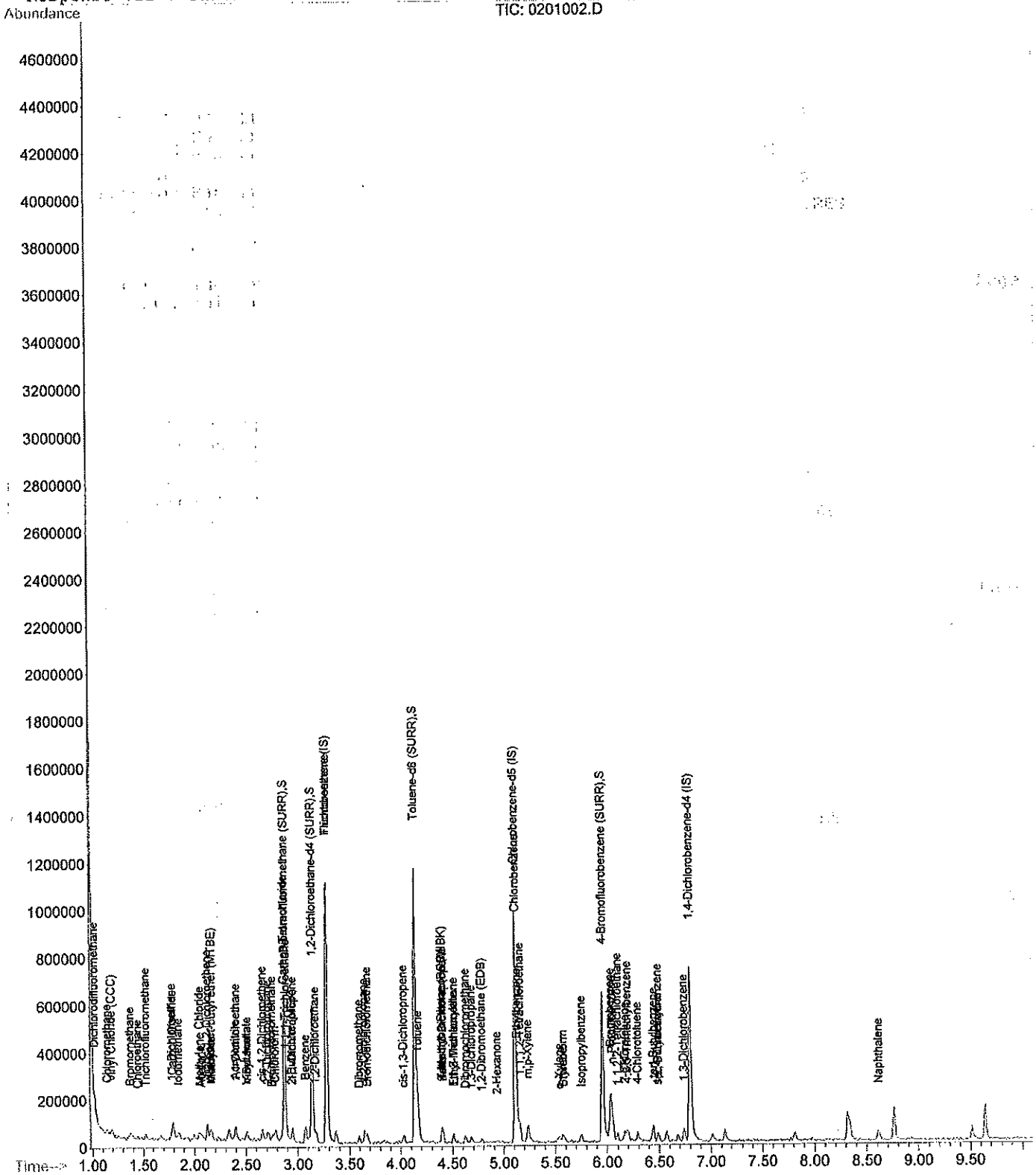
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0201002.D  
Acq On : 10 Feb 2020 3:39 pm  
Sample : 1PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 8:52 2020

Vial: 2  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0301003.D  
 Acq On : 10 Feb 2020 3:56 pm  
 Sample : 5PPB 8260 ICAL  
 Misc : A

Vial: 3  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 9:02 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title  
 Last Update : Mon Feb 10 16:56:17 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6931805	50.00	ug/L	-0.01
47) Chlorobenzene-d5 (IS)	5.11	117	3736264	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	2572447	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.87	113	2385714	48.57	ug/L	0.00
Spiked Amount: 50.000	Range	74 - 132	Recovery	=	97.14%	
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2909676	48.36	ug/L	0.00
Spiked Amount: 50.000	Range	77 - 134	Recovery	=	96.72%	
42) Toluene-d8 (SURR)	4.14	98	5603724	43.16	ug/L	0.00
Spiked Amount: 50.000	Range	67 - 130	Recovery	=	86.32%	
62) 4-Bromofluorobenzene (SURR)	5.96	95	2091699	53.87	ug/L	0.00
Spiked Amount: 50.000	Range	65 - 133	Recovery	=	107.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	1062356	4.50	ug/L	
3) Chloromethane	1.16	50	1114072	5.05	ug/L	
4) Vinyl Chloride (CCC)	1.20	62	1012021	5.60	ug/L	94
5) Bromomethane	1.38	94	600955	4.75	ug/L	
6) Chloroethane	1.44	64	289726	4.26	ug/L	
7) Acrolein	2.16	56	360044	5.53	ug/L	93
8) Trichlorofluoromethane	1.53	101	884069	5.01	ug/L	
9) Acetone	2.07	43	144139	10.51	ug/L	
10) 1,1-Dichloroethene	1.77	61	870201	5.46	ug/L	90
11) Acrylonitrile	2.40	53	626288	4.28	ug/L	
12) Iodomethane	1.85	142	738220	5.20	ug/L	93
13) Methylene Chloride	2.04	49	840121	5.40	ug/L	
14) Carbon Disulfide	1.80	76	1860393	5.72	ug/L	
15) trans-1,2-Dichloroethene	2.13	96	438504	4.94	ug/L	87
16) Methyl-tert-butyl ether (M)	2.17	73	474499	4.39	ug/L	65
17) 1,1-Dichloroethane	2.41	63	913463	5.17	ug/L	89
18) Vinyl Acetate	2.52	43	744556m	4.88	ug/L	
19) n-Hexane	2.16	57	515552	5.00	ug/L	67
20) n-Butanol	2.51	57	167035	4.53	ug/L	49
21) 2-Butanone (MEK)	2.94	43	307941	12.40	ug/L	96
22) cis-1,2-Dichloroethene	2.66	61	685943	5.53	ug/L	90
23) Bromochloromethane	2.76	128	189056	4.69	ug/L	79
24) Chloroform	2.79	83	999874	5.46	ug/L	93
25) 2,2-Dichloropropane	2.71	77	658164	5.13	ug/L	1
28) 1,2-Dichloroethane	3.18	62	791822	4.80	ug/L	90
29) 1,1,1-Trichloroethane	2.89	97	763366	5.34	ug/L	92
30) 1,1-Dichloropropene	2.95	75	693092	5.13	ug/L	99
31) Carbon Tetrachloride	2.86	117	731080	5.41	ug/L	97
32) Benzene	3.08	78	1592178	4.46	ug/L	96
33) Dibromomethane	3.60	93	338112	4.59	ug/L	88
34) 1,2-Dichloropropane	3.65	63	486962	4.60	ug/L	89
35) Trichloroethene	3.37	95	494988	4.78	ug/L	98
36) Bromodichloromethane	3.68	83	814016	4.89	ug/L	91
37) 2-Chloroethyl-vinyl-ether	3.99	63	238998m	15.72	ug/L	
38) cis-1,3-Dichloropropene	4.03	75	539038	3.49	ug/L	96
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	555737	10.07	ug/L	
40) trans-1,3-Dichloropropene	4.42	75	421256	3.28	ug/L	92
41) 1,1,2-Trichloroethane	4.51	83	305551	4.63	ug/L	93
43) Toluene	4.17	91	1571216	4.70	ug/L	93
44) Ethyl Methacrylate	4.51	69	272529	4.03	ug/L	
45) 1,3-Dichloropropane	4.69	76	567121	4.80	ug/L	95
46) 2-Hexanone	4.93	43	376403	9.86	ug/L	
48) Dibromochloromethane	4.63	129	432835	5.29	ug/L	95
49) 1,2-Dibromoethane (EDB)	4.79	107	334125	5.31	ug/L	88

(#) = qualifier out of range (m) = manual integration  
 0301003.D 021020RC.M Mon Feb 17 16:16:46 2020

Quantitation Report (QT Reviewed)

Data File : C:\NHCHEM\1\DATA\021020\0301003.D  
 Acq On : 10 Feb 2020 3:56 pm  
 Sample : 5PPB\_0260 ICAL  
 Misc : A  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 9:02 2020

Vial: 3  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\NHCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 16:56:17 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene (PCE)	4.41	166	364204	5.80 ug/L	96
51) 1,1,1,2-Tetrachloroethane	5.16	131	409389	5.88 ug/L #	48
52) Chlorobenzene	5.12	112	1025533	5.44 ug/L	88
53) Ethylbenzene	5.14	91	1752250	5.95 ug/L	92
54) m,p-Xylene	5.24	91	2538819	10.84 ug/L	98
55) o-Xylene	5.54	91	879853	3.99 ug/L #	87
56) Bromoform	5.58	173	189652	4.86 ug/L #	98
57) Styrene	5.57	104	649676	3.99 ug/L #	70
58) 1,1,2,2-Tetrachloroethane	6.10	83	354886	5.44 ug/L #	94
59) trans-1,4-Dichloro-2-buten	6.24	53	103508	5.42 ug/L #	57
60) 1,2,3-Trichloropropane	6.20	75	226885	3.79 ug/L	79
61) Isopropylbenzene	5.75	105	1054467	4.58 ug/L	94
63) Bromobenzene	6.03	156	387785	5.63 ug/L	92
64) n-Propylbenzene	6.05	91	1828396	5.54 ug/L	98
65) 2-Chlorotoluene	6.17	91	1231503	5.46 ug/L	95
66) 4-Chlorotoluene	6.29	126	267899	4.62 ug/L	78
68) 1,3,5-Trimethylbenzene	6.20	105	994192	5.76 ug/L	96
69) tert-Butylbenzene	6.44	119	917709	5.70 ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	929083	5.76 ug/L #	1
71) sec-Butylbenzene	6.57	105	1170086	5.76 ug/L #	95
72) 1,3-Dichlorobenzene	6.74	146	596174	6.05 ug/L	96
73) 1,4-Dichlorobenzene	6.80	148	416346	6.27 ug/L	89
74) p-Isopropyltoluene	6.68	119	695666	4.79 ug/L	93
75) 1,2-Dichlorobenzene	7.13	146	532802	5.91 ug/L	100
76) n-Butylbenzene	7.02	91	697470	4.47 ug/L	90
77) 1,2-Dibromo-3-chloropropan	7.77	155	10859	3.14 ug/L	9
78) 1,2,4-Trichlorobenzene	8.34	180	172123	4.88 ug/L	98
79) Naphthalene	8.61	128	260429	4.85 ug/L	9
80) Hexachloro-1,3-butadiene	8.31	225	97929	6.00 ug/L	9
81) 1,2,3-Trichlorobenzene	8.76	180	146460	5.42 ug/L	9
82) 1-Methylnaphthalene	9.63	142	46084	5.26 ug/L	9
83) 2-Methylnaphthalene	9.52	142	47810	5.61 ug/L #	1

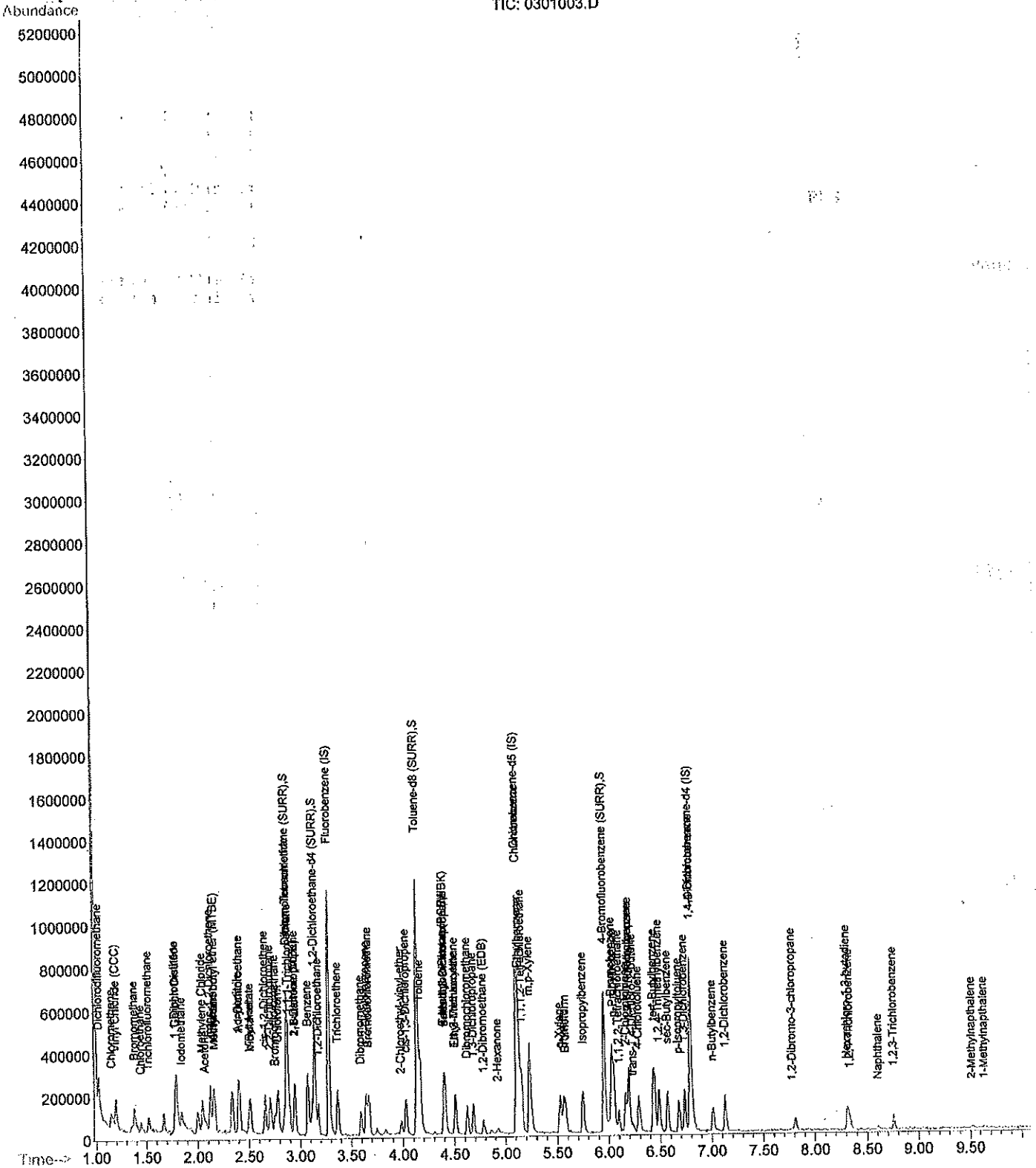
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0301003.D  
Acq On : 10 Feb 2020 3:56 pm  
Sample : 5PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 9:02 2020

Vial: 3  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0401004.D  
 Acq On : 10 Feb 2020 4:13 pm  
 Sample : 10PPB 8260 ICAL  
 Misc : A

Vial: 4  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

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MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:59 2020

Quant Results File: 021020RC.RES

Quant Method : G:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 16:52:49 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6226253	50.00	ug/L	-0.02
47) Chlorobenzene-d5 (IS)	5.11	117	4035046	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	2665584	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.87	113	2411565	53.92	ug/L	0.00
Spiked Amount	50.000	Range 74 - 132	Recovery =	107.84%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2794400	51.28	ug/L	0.00
Spiked Amount	50.000	Range 77 - 134	Recovery =	102.56%		
42) Toluene-d8 (SURR)	4.14	98	4949333	42.08	ug/L	0.00
Spiked Amount	50.000	Range 67 - 130	Recovery =	84.16%		
62) 4-Bromofluorobenzene (SURR)	5.96	95	1757955	41.42	ug/L	0.00
Spiked Amount	50.000	Range 65 - 133	Recovery =	82.84%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	2433211	11.43	ug/L	
3) Chloromethane	1.15	50	2360210	11.99	ug/L #	97
4) Vinyl Chloride (CCC)	1.20	62	1825864	11.22	ug/L	98
5) Bromomethane	1.37	94	1239789m	11.09	ug/L	
6) Chloroethane	1.44	64	614196	10.23	ug/L	
7) Acrolein	2.16	56	678134	11.61	ug/L #	92
8) Trichlorofluoromethane	1.52	101	1530106	10.75	ug/L	
9) Acetone	2.07	43	260482	21.19	ug/L	
10) 1,1-Dichloroethene	1.78	61	1714432	12.29	ug/L	
11) Acrylonitrile	2.40	53	1372230	10.39	ug/L	98
12) Iodomethane	1.85	142	1431546	11.24	ug/L	
13) Methylene Chloride	2.05	49	1582479	11.33	ug/L	9
14) Carbon Disulfide	1.79	76	3621348	12.62	ug/L	
15) trans-1,2-Dichloroethene	2.13	96	915512	11.71	ug/L	89
16) Methyl-tert-butyl ether (M)	2.17	73	881329	9.08	ug/L #	62
17) 1,1-Dichloroethane	2.41	63	1691616	10.63	ug/L	98
18) Vinyl Acetate	2.51	43	1582854m	11.15	ug/L	
19) n-Hexane	2.16	57	992614	10.87	ug/L #	75
20) n-Butanol	2.51	57	328566	10.02	ug/L #	67
21) 2-Butanone (MEK)	2.94	43	545741	24.20	ug/L #	90
22) cis-1,2-Dichloroethene	2.66	61	1310267	11.94	ug/L	96
23) Bromochloromethane	2.76	128	360092	9.74	ug/L	
24) Chloroform	2.79	83	1814401	11.07	ug/L	97
25) 2,2-Dichloropropane	2.71	77	1210855	10.52	ug/L #	1
28) 1,2-Dichloroethane	3.18	62	1452731	9.67	ug/L	99
29) 1,1,1-Trichloroethane	2.89	97	1401637	10.97	ug/L	96
30) 1,1-Dichloropropene	2.95	75	1320215	10.98	ug/L	94
31) Carbon Tetrachloride	2.86	117	1359967	11.33	ug/L	92
32) Benzene	3.08	78	3222638	10.11	ug/L	98
33) Dibromomethane	3.60	93	659227	9.96	ug/L	88
34) 1,2-Dichloropropane	3.65	63	947804	10.02	ug/L	99
35) Trichloroethene	3.37	95	992580	10.80	ug/L	97
36) Bromodichloromethane	3.68	83	1470068	9.80	ug/L	97
37) 2-Chloroethyl-vinyl-ether	3.98	63	543041	42.44	ug/L	
38) cis-1,3-Dichloropropene	4.03	75	1322797	9.76	ug/L	
39) 4-Methyl-2-Pentanone (MIBK)	4.40	43	1054483	21.32	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	1131824	10.09	ug/L	
41) 1,1,2-Trichloroethane	4.51	83	608986	10.51	ug/L	
43) Toluene	4.17	91	3119364	10.57	ug/L	97
44) Ethyl Methacrylate	4.50	69	478047m	7.93	ug/L	
45) 1,3-Dichloropropane	4.69	76	987230	9.28	ug/L	96
46) 2-Hexanone	4.92	43	767129	22.47	ug/L	
48) Dibromochloromethane	4.63	129	887751	9.85	ug/L	97
49) 1,2-Dibromoethane (EDB)	4.78	107	672408	9.91	ug/L #	98

(#) = qualifier out of range (m) = manual integration  
 0401004.D 021020RC.M Mon Feb 17 16:16:50 2020



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0401004.D  
 Acq On : 10 Feb 2020 4:13 pm  
 Sample : 10PPB 8260 ICAL  
 Misc : A  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:59 2020

Vial: 4  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 16:52:49 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	691406	10.11	ug/L	86
51) 1,1,1,2-Tetrachloroethane	5.16	131	767899	10.09	ug/L	93
52) Chlorobenzene	5.12	112	2079704	10.19	ug/L	97
53) Ethylbenzene	5.14	91	3317353	10.38	ug/L	95
54) m,p-Xylene	5.23	91	5561942	22.06	ug/L	
55) o-Xylene	5.53	91	2445504	10.58	ug/L	
56) Bromoform	5.58	173	431210	10.25	ug/L	99
57) Styrene	5.57	104	1737147	9.86	ug/L	96
58) 1,1,2,2-Tetrachloroethane	6.10	83	706466	9.99	ug/L #	93
59) trans-1,4-Dichloro-2-buten	6.23	53	179633	8.46	ug/L	96
60) 1,2,3-Trichloropropane	6.20	75	617668m	9.18	ug/L	
61) Isopropylbenzene	5.75	105	2456477	9.87	ug/L	97
63) Bromobenzene	6.03	156	759525	10.14	ug/L	84
64) n-Propylbenzene	6.05	91	3832611	10.80	ug/L	99
65) 2-Chlorotoluene	6.17	91	2435632	9.96	ug/L	97
66) 4-Chlorotoluene	6.29	126	599742	9.40	ug/L	80
68) 1,3,5-Trimethylbenzene	6.20	105	2083031	11.77	ug/L	93
69) tert-Butylbenzene	6.44	119	1890646	11.52	ug/L	94
70) 1,2,4-Trimethylbenzene	6.49	105	2055184	12.50	ug/L #	1
71) sec-Butylbenzene	6.57	105	2536265	12.27	ug/L #	98
72) 1,3-Dichlorobenzene	6.74	146	1215419	11.90	ug/L	94
73) 1,4-Dichlorobenzene	6.81	148	807568	11.66	ug/L	97
74) p-Isopropyltoluene	6.68	119	1647832	11.06	ug/L	97
75) 1,2-Dichlorobenzene	7.13	146	1086066	11.66	ug/L	99
76) n-Butylbenzene	7.01	91	1793050	11.31	ug/L	97
77) 1,2-Dibromo-3-chloropropan	7.78	155	26400	7.13	ug/L #	53
78) 1,2,4-Trichlorobenzene	8.34	180	351576	9.63	ug/L	89
79) Naphthalene	6.29	128	509445	9.14	ug/L	
80) Hexachloro-1,3-butadiene	8.32	225	216121	13.41	ug/L	87
81) 1,2,3-Trichlorobenzene	8.76	180	307967	11.07	ug/L #	87
82) 1-Methylnaphthalene	9.64	142	64472	7.21	ug/L	
83) 2-Methylnaphthalene	9.51	142	40209	4.42	ug/L	

(#) = qualifier out of range (m) = manual integration  
 0401004.D 021020RC.M Mon Feb 17 16:16:50 2020

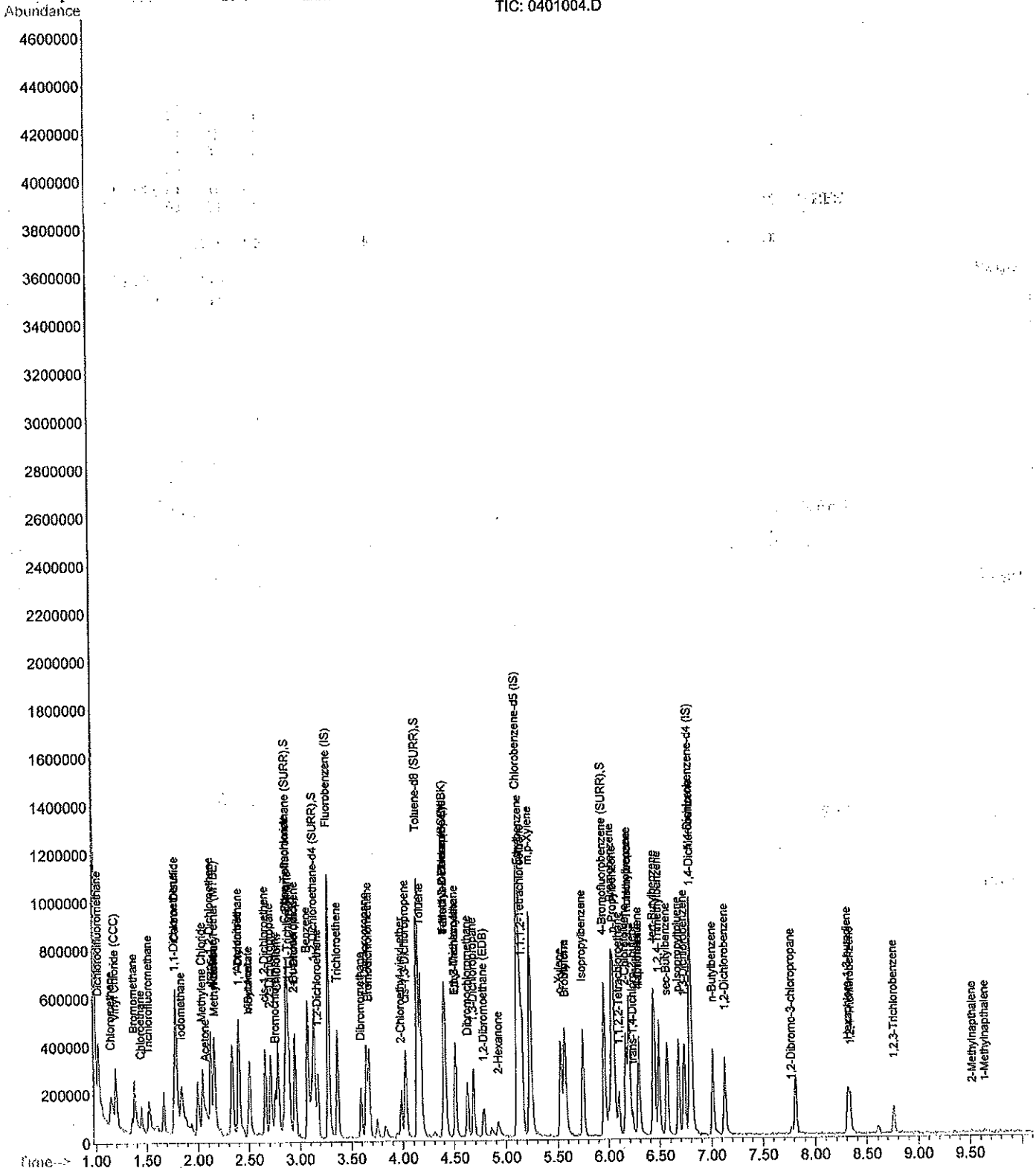
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0401004.D  
Acq On : 10 Feb 2020 4:13 pm  
Sample : 10PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 8:59 2020

Vial: 4  
Operator: tjt  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\NHCHEM\1\DATA\021020\0501005.D  
 Acq On : 10 Feb 2020 4:30 pm  
 Sample : 20PPB 8260 ICAL  
 Misc : A

Vial: 5  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

0 850 900 950

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MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 9:01 2020

Quant Results File: 021020RC.RES

Quant Method : C:\NHCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 15:38:08 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	7042748	50.00	ug/L	-0.01
47) Chlorobenzene-d5 (IS)	5.11	117	4263184	50.00	ug/L	0.00
367) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	3089099	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2359692	48.47	ug/L	0.00
Spiked Amount	50.000	Range	74 - 132	Recovery	=	96.94%
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2996491	50.90	ug/L	0.00
Spiked Amount	50.000	Range	77 - 134	Recovery	=	101.80%
42) Toluene-d8 (SURR)	4.14	98	5687497	44.13	ug/L	0.00
Spiked Amount	50.000	Range	67 - 130	Recovery	=	88.26%
62) 4-Bromofluorobenzene (SURR)	5.96	95	2170884	49.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 133	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	4985442	23.73	ug/L	
3) Chloromethane	1.16	50	4637221	23.57	ug/L	
4) Vinyl Chloride (CCG)	1.19	62	3713740	22.13	ug/L	
5) Bromomethane	1.38	94	2675808	23.56	ug/L	83
6) Chloroethane	1.45	64	1435751	23.36	ug/L	
7) Acrolein	2.16	56	1329821	22.19	ug/L #	92
8) Trichlorofluoromethane	1.52	101	3627069m	25.09	ug/L	
9) Acetone	2.07	43	636369	45.35	ug/L #	95
10) 1,1-Dichloroethene	1.78	61	3073470m	21.37	ug/L	
11) Acrylonitrile	2.40	53	2847004	20.17	ug/L	92
12) Iodomethane	1.85	142	3042280	22.77	ug/L	98
13) Methylene Chloride	2.05	49	3072240	21.06	ug/L	
14) Carbon Disulfide	1.79	76	6530722	22.33	ug/L	
15) trans-1,2-Dichloroethene	2.13	96	1725663	21.09	ug/L	92
16) Methyl-tert-butyl ether (M)	2.17	73	1948459	17.56	ug/L #	72
17) 1,1-Dichloroethane	2.41	63	3659580	22.09	ug/L	98
18) Vinyl Acetate	2.52	43	2849565	18.08	ug/L	99
19) n-Hexane	2.16	57	1998866	20.35	ug/L	89
20) n-Butanol	2.50	57	746721m	20.29	ug/L	
21) 2-Butanone (MEK)	2.94	43	1144743	45.80	ug/L #	97
22) cis-1,2-Dichloroethene	2.66	61	2594512	22.78	ug/L	98
23) Bromochloromethane	2.76	128	824159	20.75	ug/L #	96
24) Chloroform	2.79	83	3588415	20.84	ug/L	99
25) 2,2-Dichloropropane	2.71	77	2543248	20.66	ug/L #	4
28) 1,2-Dichloroethane	3.18	62	3193928	19.61	ug/L	100
29) 1,1,1-Trichloroethane	2.89	97	2856144	20.95	ug/L	97
30) 1,1-Dichloropropene	2.95	75	2568790	20.01	ug/L	98
31) Carbon Tetrachloride	2.86	117	2663492	20.57	ug/L	94
32) Benzene	3.08	78	6816416	19.65	ug/L	98
33) Dibromomethane	3.60	93	1352659	18.70	ug/L	94
34) 1,2-Dichloropropane	3.65	63	1986769	19.36	ug/L	91
35) Trichloroethene	3.37	95	1977845	20.05	ug/L	99
36) Bromodichloromethane	3.68	83	3167048	19.43	ug/L	98
37) 2-Chloroethyl-vinyl-ether	3.98	63	1377497m	106.22	ug/L	
38) cis-1,3-Dichloropropene	4.03	75	2924800	20.03	ug/L	
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	2321572	41.87	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	2419667	19.87	ug/L	
41) 1,1,2-Trichloroethane	4.51	83	1244440	19.80	ug/L	
43) Toluene	4.17	91	6360331	20.22	ug/L	98
44) Ethyl Methacrylate	4.50	69	1189505m	17.73	ug/L	
45) 1,3-Dichloropropane	4.69	76	2278531	19.72	ug/L	100
46) 2-Hexanone	4.92	43	1666074	43.43	ug/L	
48) Dibromochloromethane	4.62	129	1857865	19.74	ug/L	
49) 1,2-Dibromoethane (EDB)	4.78	107	1510089	21.51	ug/L #	91

(#) = qualifier out of range (m) = manual integration  
 0501005.D 021020RC.M Mon Feb 17 16:16:53 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0501005.D  
 Acq On : 10 Feb 2020 4:30 pm  
 Sample : 20PPB 8260 ICAL  
 Misc : A

Vial: 5  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 9:01 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title  
 Last Update : Mon Feb 10 15:38:08 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Page

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	1474381	20.96	ug/L	91
51) 1,1,1,2-Tetrachloroethane	5.16	131	1597522	20.22	ug/L	95
52) Chlorobenzene	5.12	112	4519347	21.72	ug/L	96
53) Ethylbenzene	5.14	91	7055122	21.64	ug/L	97
54) m,p-Xylene	5.23	91	11577749	45.30	ug/L	
55) o-Xylene	5.53	91	5758528	24.59	ug/L	
56) Bromoform	5.58	173	884965	19.83	ug/L #	94S
57) Styrene	5.57	104	4033217	22.60	ug/L	92
58) 1,1,2,2-Tetrachloroethane	6.10	83	1545637	20.84	ug/L	99
59) trans-1,4-Dichloro-2-buten	6.23	53	432625	19.57	ug/L	87
60) 1,2,3-Trichloropropane	6.20	75	1398276	20.65	ug/L	
61) Isopropylbenzene	5.75	105	5618829	22.23	ug/L	98
63) Bromobenzene	6.03	156	1713866	22.30	ug/L	92
64) n-Propylbenzene	6.05	91	8132704	22.59	ug/L	98
65) 2-Chlorotoluene	6.17	91	5536500	22.32	ug/L	98
66) 4-Chlorotoluene	6.29	126	1443717	22.35	ug/L	91
68) 1,3,5-Trimethylbenzene	6.20	105	4783287	24.36	ug/L	96
69) tert-Butylbenzene	6.44	119	4371698	23.70	ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	4332403	23.63	ug/L #	98
71) sec-Butylbenzene	6.57	105	5749921	25.20	ug/L #	97
72) 1,3-Dichlorobenzene	6.74	146	2650338	23.09	ug/L	97
73) 1,4-Dichlorobenzene	6.80	148	1811227	23.23	ug/L	98
74) p-Isopropyltoluene	6.68	119	4064792	24.56	ug/L	99
75) 1,2-Dichlorobenzene	7.13	146	2384059	22.59	ug/L	98
76) n-Butylbenzene	7.01	91	4317338	24.77	ug/L	98
77) 1,2-Dibromo-3-chloropropan	7.78	155	92997	21.44	ug/L	93
78) 1,2,4-Trichlorobenzene	8.34	180	974530	23.40	ug/L	96
79) Naphthalene	8.61	128	1401027	21.76	ug/L	
80) Hexachloro-1,3-butadiene	8.31	225	418708	22.76	ug/L	92
81) 1,2,3-Trichlorobenzene	8.76	180	740157	23.44	ug/L	97
82) 1-Methylnaphthalene	9.63	142	170295	16.01	ug/L	
83) 2-Methylnaphthalene	9.52	142	109567	9.54	ug/L	



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0101001.D  
 Acq On : 10 Feb 2020 3:21 pm  
 Sample : 50PPB 8260 ICAL/BFB TUNE  
 Misc : A

Vial: 1  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

0 250 500 750

Page

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 10:03 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:02:10 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6552781	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4515974	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.80	150	3756936	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2364835	50.77	ug/L	0.00
Spiked Amount: 50.000	Range	74 - 132	Recovery =	101.54%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	2867030	49.41	ug/L	0.00
Spiked Amount: 50.000	Range	77 - 134	Recovery =	98.82%		
42) Toluene-d8 (SURR)	4.14	98	6285739	55.13	ug/L	0.00
Spiked Amount: 50.000	Range	67 - 130	Recovery =	110.26%		
62) 4-Bromofluorobenzene (SURR)	5.96	95	2389317	51.85	ug/L	0.00
Spiked Amount: 50.000	Range	65 - 133	Recovery =	103.70%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	13048436	54.23	ug/L	100
3) Chloromethane	1.15	50	11955214	52.99	ug/L	100
4) Vinyl Chloride (CCC)	1.20	62	10212027	52.57	ug/L	100
5) Bromomethane	1.38	94	6616002	52.58	ug/L	100
6) Chloroethane	1.44	64	3561222	54.24	ug/L	100
7) Acrolein	2.16	56	3042405	47.32	ug/L #	100
8) Trichlorofluoromethane	1.52	101	8758677	52.55	ug/L	100
9) Acetone	2.07	43	1601596	132.90	ug/L #	98
10) 1,1-Dichloroethene	1.77	61	8040247	51.12	ug/L	100
11) Acrylonitrile	2.40	53	7374911	53.80	ug/L	99
12) Iodomethane	1.84	142	8012129m	53.84	ug/L	100
13) Methylene Chloride	2.05	49	7723620	50.58	ug/L	100
14) Carbon Disulfide	1.79	76	17177075	51.04	ug/L	99
15) trans-1,2-Dichloroethene	2.13	96	4348806	50.53	ug/L	100
16) Methyl-tert-Butyl ether (M)	2.17	73	4788288	50.02	ug/L	100
17) 1,1-Dichloroethane	2.41	63	8896199	52.31	ug/L	100
18) Vinyl Acetate	2.51	43	7632707	50.42	ug/L	100
19) n-Hexane	2.16	57	4961962	50.97	ug/L	100
20) n-Butanol	2.51	57	1715579	49.83	ug/L	100
21) 2-Butanone (MEK)	2.94	43	2777857	121.29	ug/L	100
22) cis-1,2-Dichloroethene	2.66	61	6363740	50.75	ug/L	100
23) Bromochloromethane	2.76	128	2054175	53.10	ug/L #	100
24) Chloroform	2.79	83	9120412	51.24	ug/L	100
25) 2,2-Dichloropropane	2.72	77	6582004	52.55	ug/L	100
28) 1,2-Dichloroethane	3.18	62	7938199	51.66	ug/L	100
29) 1,1,1-Trichloroethane	2.89	97	7021730	50.39	ug/L	100
30) 1,1-Dichloropropene	2.95	75	6709995	50.77	ug/L	100
31) Carbon Tetrachloride	2.86	117	6987203	51.98	ug/L	100
32) Benzene	3.08	78	17294760	50.95	ug/L	100
33) Dibromomethane	3.60	93	3344075	49.48	ug/L	99
34) 1,2-Dichloropropane	3.65	63	5323655	53.01	ug/L	100
35) Trichloroethene	3.37	95	5199630	52.34	ug/L	100
36) Bromodichloromethane	3.68	83	8190453	51.96	ug/L	99
37) 2-Chloroethyl-vinyl-ether	3.99	63	4484259	180.48	ug/L	100
38) cis-1,3-Dichloropropene	4.03	75	7373774	49.36	ug/L	95
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	6913086	113.05	ug/L	100
40) trans-1,3-Dichloropropene	4.41	75	6645789	47.98	ug/L	99
41) 1,1,2-Trichloroethane	4.51	83	3197628	50.95	ug/L	99
43) Toluene	4.17	91	16482135	50.63	ug/L	100
44) Ethyl Methacrylate	4.50	69	3582872	47.78	ug/L	99
45) 1,3-Dichloropropane	4.69	76	5711714	50.27	ug/L	100
46) 2-Hexanone	4.91	43	4365651m	110.04	ug/L	100
48) Dibromochloromethane	4.63	129	5060591	49.94	ug/L	100
49) 1,2-Dibromoethane (EDB)	4.78	107	3904378	49.83	ug/L	100

(#) = qualifier out of range (m) = manual integration  
 0101001.D 021020RC.M Mon Feb 17 16:16:58 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0101001.D  
 Acq On : 10 Feb 2020 3:21 pm  
 Sample : 50PPB 8260 ICAL/BFB TUNE  
 Misc : A

Vial: 1  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 10:03 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title :  
 Last Update : Tue Feb 11 10:02:10 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	3832713	48.98	ug/L	99
51) 1,1,1,2-Tetrachloroethane	5.16	131	4333434	48.97	ug/L #	85
52) Chlorobenzene	5.12	112	11618865	49.51	ug/L	100
53) Ethylbenzene	5.14	91	19404303	50.42	ug/L	100
54) m,p-Xylene	5.23	91	30432567	102.39	ug/L	98
55) o-Xylene	5.53	91	14166339	46.80	ug/L	96
56) Bromoform	5.58	173	2307987	49.08	ug/L	100
57) Styrene	5.57	104	11148384	52.44	ug/L	99
58) 1,1,2,2-Tetrachloroethane	6.10	83	3889535	46.41	ug/L	100
59) trans-1,4-Dichloro-2-buten	6.23	53	1152755	51.16	ug/L	100
60) 1,2,3-Trichloropropane	6.20	75	3505145m	51.43	ug/L	
61) Isopropylbenzene	5.75	105	16039247	53.64	ug/L	100
63) Bromobenzene	6.03	156	4380301	49.71	ug/L	100
64) n-Propylbenzene	6.05	91	21553347	50.34	ug/L	100
65) 2-Chlorotoluene	6.17	91	14891942	51.34	ug/L	100
66) 4-Chlorotoluene	6.29	126	4253994	54.27	ug/L	100
68) 1,3,5-Trimethylbenzene	6.20	105	12880842	47.66	ug/L	100
69) tert-Butylbenzene	6.44	119	12340322	48.69	ug/L	100
70) 1,2,4-Trimethylbenzene	6.49	105	12253999	47.53	ug/L #	100
71) sec-Butylbenzene	6.57	105	15418842	47.11	ug/L #	100
72) 1,3-Dichlorobenzene	6.74	146	6826515	45.53	ug/L	100
73) 1,4-Dichlorobenzene	6.81	148	4523093	45.36	ug/L	100
74) p-Isopropyltoluene	6.68	119	11283372	50.28	ug/L	100
75) 1,2-Dichlorobenzene	7.13	146	6510908	46.25	ug/L	100
76) n-Butylbenzene	7.01	91	12391667	51.00	ug/L	100
77) 1,2-Dibromo-3-chloropropan	7.78	155	262065	54.90	ug/L	100
78) 1,2,4-Trichlorobenzene	8.34	180	2742868	50.82	ug/L	100
79) Naphthalene	8.61	128	3808987	49.61	ug/L	100
80) Hexachloro-1,3-butadiene	8.32	225	1105854	48.32	ug/L	100
81) 1,2,3-Trichlorobenzene	8.76	180	2026914	47.23	ug/L	100
82) 1-Methylnapthalene	9.64	142	587679	57.39	ug/L	100
83) 2-Methylnapthalene	9.51	142	463550	52.97	ug/L	99

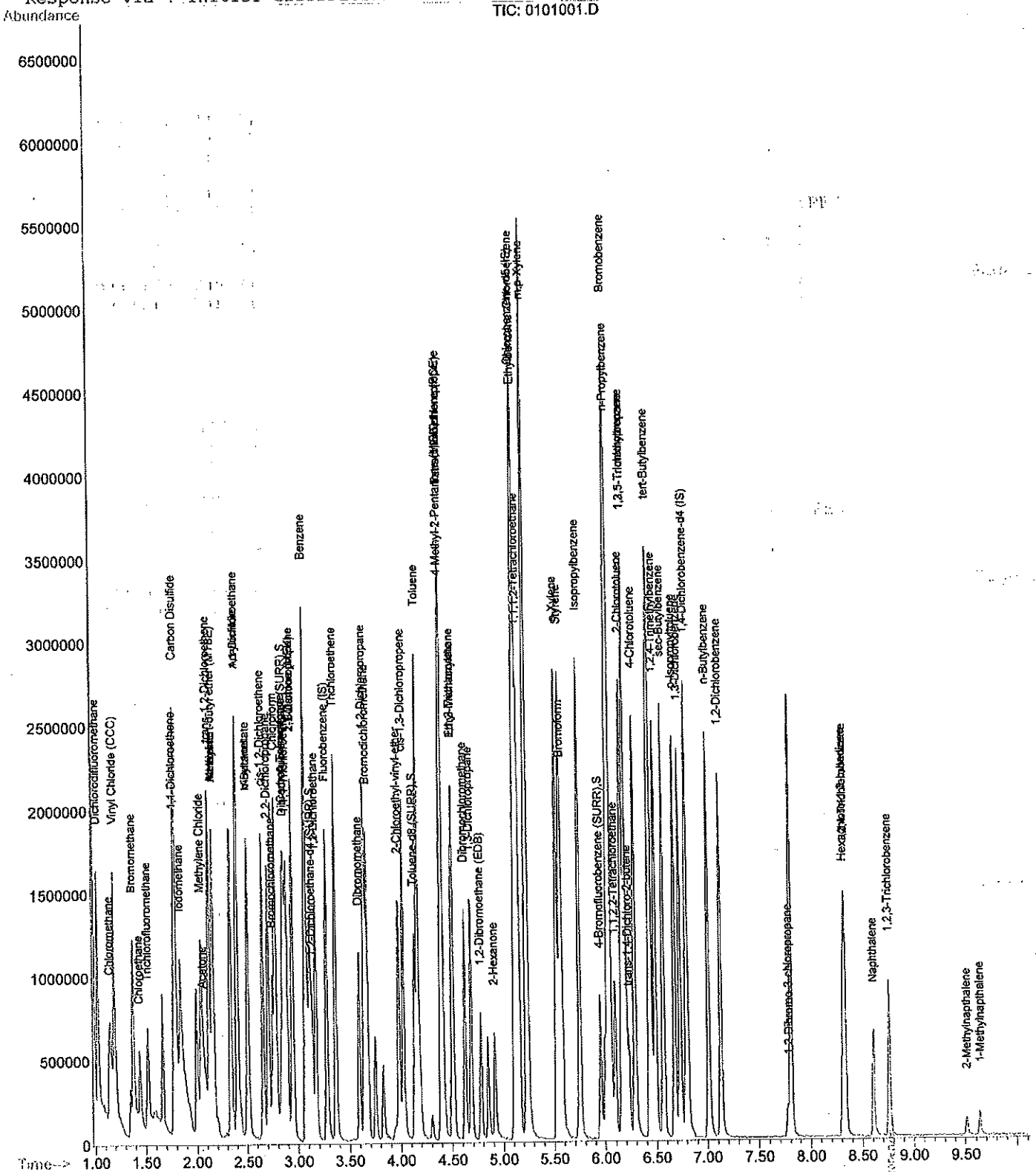
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0101001.D  
Acq On : 10 Feb 2020 3:21 pm  
Sample : 50PPB 8260 ICAL/BFB TUNE  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 10:03 2020

Vial: 1  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : C:\NPHCHEM\1\DATA\021020\0601006.D  
 Acq On : 10 Feb 2020 4:48 pm  
 Sample : 100PPB 8260 ICAL  
 Misc : A

Vial: 6  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:58 2020

Quant Results File: 021020RC.RES

Quant Method : C:\NPHCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:47:38 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	6631474	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4989685	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.79	150	4280172	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2482274	53.58	ug/L	0.00
Spiked Amount : 50.000	Range	74 - 132	Recovery =	107.16%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3174612	54.86	ug/L	0.00
Spiked Amount : 50.000	Range	77 - 134	Recovery =	109.72%		
42) Toluene-d8 (SURR)	4.14	98	6588974	53.45	ug/L	0.00
Spiked Amount : 50.000	Range	67 - 130	Recovery =	106.90%		
62) 4-Bromofluorobenzene (SURR)	5.96	95	2719389	52.12	ug/L	0.00
Spiked Amount : 50.000	Range	65 - 133	Recovery =	104.24%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	25686505	115.67	ug/L	100
3) Chloromethane	1.15	50	23050328	109.28	ug/L	100
4) Vinyl Chloride (GCC)	1.20	62	20220986	120.04	ug/L	100
5) Bromomethane	1.38	94	12884986	104.64	ug/L	98
6) Chloroethane	1.44	64	7069042	104.66	ug/L	98
7) Acrolein	2.16	56	6374941	102.70	ug/L #	98
8) Trichlorofluoromethane	1.52	101	17582027	105.00	ug/L	99
9) Acetone	2.07	43	3319785	262.15	ug/L	99
10) 1,1-Dichloroethene	1.78	61	15970822m	106.00	ug/L	99
11) Acrylonitrile	2.40	53	15042260	109.01	ug/L	96
12) Iodomethane	1.85	142	16459731	114.29	ug/L #	97
13) Methylene Chloride	2.05	49	15597829	105.95	ug/L	97
14) Carbon Disulfide	1.79	76	34401635	108.70	ug/L	97
15) trans-1,2-Dichloroethene	2.13	96	8893232	104.58	ug/L	91
16) Methyl-tert-butyl ether (M)	2.17	73	10870330	104.85	ug/L	97
17) 1,1-Dichloroethane	2.41	63	17009590	100.40	ug/L	97
18) Vinyl Acetate	2.51	43	16610003	114.87	ug/L	99
19) n-Hexane	2.16	57	10164007	103.25	ug/L	98
20) n-Butanol	2.51	57	3830666	106.81	ug/L	89
21) 2-Butanone (MEK)	2.94	43	6204961	263.10	ug/L	100
22) cis-1,2-Dichloroethene	2.66	61	12789906	107.32	ug/L	99
23) Bromochloromethane	2.76	128	4193378	107.65	ug/L #	99
24) Chloroform	2.79	83	18192624	103.30	ug/L	99
25) 2,2-Dichloropropane	2.72	77	13302904	108.35	ug/L	97
28) 1,2-Dichloroethane	3.18	62	16524311	104.84	ug/L	98
29) 1,1,1-Trichloroethane	2.90	97	14443955	103.27	ug/L	100
30) 1,1-Dichloropropene	2.95	75	14006278	108.08	ug/L	99
31) Carbon Tetrachloride	2.86	117	13937954	102.70	ug/L	99
32) Benzene	3.08	78	37595418	111.47	ug/L	98
33) Dibromomethane	3.60	93	7296866	105.34	ug/L	98
34) 1,2-Dichloropropane	3.65	63	10896686	108.84	ug/L	99
35) Trichloroethene	3.37	95	10665240	106.93	ug/L	99
36) Bromodichloromethane	3.68	83	16956544	106.31	ug/L	99
37) 2-Chloroethyl-vinyl-ether	3.98	63	11739990m	754.06	ug/L	99
38) cis-1,3-Dichloropropene	4.03	75	16624991	115.23	ug/L	97
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	16340989	310.61	ug/L	99
40) trans-1,3-Dichloropropene	4.41	75	14199258	115.84	ug/L	88
41) 1,1,2-Trichloroethane	4.51	83	7080546	112.35	ug/L	98
43) Toluene	4.17	91	36117071	112.75	ug/L	99
44) Ethyl Methacrylate	4.50	69	8250679	133.78	ug/L	96
45) 1,3-Dichloropropane	4.69	76	13048994	113.49	ug/L	99
46) 2-Hexanone	4.91	43	10964569	301.37	ug/L	99
48) Dibromochloromethane	4.63	129	11431240	105.18	ug/L	98
49) 1,2-Dibromoethane (EDB)	4.78	107	8605676	102.65	ug/L	97

(#) = qualifier out of range (m) = manual integration  
 0601006.D 021020RC.M Mon Feb 17 16:17:02 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0601006.D  
 Acq On : 10 Feb 2020 4:48 pm  
 Sample : 100PPB 8260 ICAL  
 Misc : A

Vial: 6  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:58 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:47:38 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	8440202	101.19	ug/L	94
51) 1,1,1,2-Tetrachloroethane	5.16	131	9212622	98.43	ug/L #	82
52) Chlorobenzene	5.12	112	25037808	101.17	ug/L	98
53) Ethylbenzene	5.14	91	41412569	103.60	ug/L	98
54) m,p-Xylene	5.23	91	62674311	198.74	ug/L	97
55) o-Xylene	5.53	91	33206351	112.56	ug/L	98
56) Bromoform	5.58	173	5288533	101.88	ug/L	97
57) Styrene	5.57	104	24632723	115.26	ug/L	94
58) 1,1,2,2-Tetrachloroethane	6.10	83	9130523	104.97	ug/L	98
59) trans-1,4-Dichloro-2-buten	6.23	53	2503712	100.46	ug/L	89
60) 1,2,3-Trichloropropane	6.20	75	7324920	97.38	ug/L	89
61) Isopropylbenzene	5.75	105	34789870	111.66	ug/L	99
63) Bromobenzene	6.03	156	9502935	101.23	ug/L	98
64) n-Propylbenzene	6.05	91	47136297	106.09	ug/L	99
65) 2-Chlorotoluene	6.17	91	31889600	105.43	ug/L	100
66) 4-Chlorotoluene	6.29	126	8661174	110.59	ug/L	88
68) 1,3,5-Trimethylbenzene	6.20	105	27628500	96.36	ug/L	97
69) tert-Butylbenzene	6.44	119	26727280	98.68	ug/L	97
70) 1,2,4-Trimethylbenzene	6.49	105	26307840	96.02	ug/L #	98
71) sec-Butylbenzene	6.57	105	34216108	98.87	ug/L #	98
72) 1,3-Dichlorobenzene	6.74	146	15993589	96.47	ug/L	97
73) 1,4-Dichlorobenzene	6.80	148	10190768	91.35	ug/L	97
74) p-Isopropyltoluene	6.68	119	24938765	102.66	ug/L	99
75) 1,2-Dichlorobenzene	7.13	146	14594541	96.45	ug/L	100
76) n-Butylbenzene	7.01	91	27512939	108.40	ug/L	98
77) 1,2-Dibromo-3-chloropropan	7.77	155	577712	102.76	ug/L	98
78) 1,2,4-Trichlorobenzene	8.33	180	6321380	105.27	ug/L	98
79) Naphthalene	8.60	128	9106222	103.45	ug/L	94
80) Hexachloro-1,3-butadiene	8.32	225	2556473	93.17	ug/L	99
81) 1,2,3-Trichlorobenzene	8.76	180	4894825	103.47	ug/L	99
82) 1-Methylnapthalene	9.64	142	1332929	100.20	ug/L	99
83) 2-Methylnapthalene	9.50	142	1119613	94.33	ug/L	99



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0801008.D  
 Acq On : 10 Feb 2020 5:22 pm  
 Sample : 200PPB 8260 ICAL  
 Misc : A

Vial: 8  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:54 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:49:24 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	7377858	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	5402740	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.80	150	4560640	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.88	113	2442925	45.61	ug/L	0.00
Spiked Amount	50.000	Range	74 - 132	Recovery =	91.22%	
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3291671	49.18	ug/L	0.00
Spiked Amount	50.000	Range	77 - 134	Recovery =	98.36%	
42) Toluene-d8 (SURR)	4.14	98	6412027	46.29	ug/L	0.00
Spiked Amount	50.000	Range	67 - 130	Recovery =	92.58%	
62) 4-Bromofluorobenzene (SURR)	5.95	95	2604533	46.07	ug/L	0.00
Spiked Amount	50.000	Range	65 - 133	Recovery =	92.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	54083759	198.71	ug/L	
3) Chloromethane	1.15	50	47770832	186.77	ug/L	97
4) Vinyl Chloride (CCC)	1.20	62	41149636	203.83	ug/L	99
5) Bromomethane	1.37	94	28555644	194.84	ug/L	
6) Chloroethane	1.44	64	14691260	182.35	ug/L	
7) Acrolein	2.16	56	13656386	187.54	ug/L	
8) Trichlorofluoromethane	1.52	101	34764595	177.82	ug/L	
9) Acetone	2.07	43	6863253	473.78	ug/L	
10) 1,1-Dichloroethene	1.78	61	31095780	174.20	ug/L	
11) Acrylonitrile	2.40	53	29580589	186.43	ug/L	
12) Iodomethane	1.85	142	33398805	196.86	ug/L	98
13) Methylene Chloride	2.05	49	31411680	179.78	ug/L	
14) Carbon Disulfide	1.79	76	67674395	178.62	ug/L	
15) trans-1,2-Dichloroethene	2.13	96	18461440	187.86	ug/L	95
16) Methyl-tert-butyl ether (M)	2.17	73	22110996	192.39	ug/L	88
17) 1,1-Dichloroethane	2.41	63	34572929m	177.35	ug/L	
18) Vinyl Acetate	2.51	43	34147078	206.82	ug/L	98
19) n-Hexane	2.16	57	20164299	178.15	ug/L	99
20) n-Butanol	2.51	57	7548752	189.35	ug/L	89
21) 2-Butanone (MEK)	2.93	43	13019730m	486.82	ug/L	
22) cis-1,2-Dichloroethene	2.66	61	24877839	175.14	ug/L	95
23) Bromochloromethane	2.76	128	8479477	190.15	ug/L #	99
24) Chloroform	2.79	83	35801650	173.26	ug/L	95
25) 2,2-Dichloropropane	2.72	77	26661825	184.54	ug/L	97
28) 1,2-Dichloroethane	3.18	62	33514937	186.84	ug/L	100
29) 1,1,1-Trichloroethane	2.90	97	28886233	179.33	ug/L	99
30) 1,1-Dichloropropene	2.95	75	29499580	195.91	ug/L	99
31) Carbon Tetrachloride	2.86	117	27918588	179.52	ug/L	98
32) Benzene	3.08	78	81557579	208.34	ug/L	97
33) Dibromomethane	3.60	93	15698273	199.99	ug/L	97
34) 1,2-Dichloropropane	3.65	63	23485011	203.74	ug/L	96
35) Trichloroethene	3.37	95	21773744	189.48	ug/L	98
36) Bromodichloromethane	3.68	83	36089470	198.06	ug/L	98
37) 2-Chloroethyl-vinyl-ether	3.99	63	25861404	1264.96	ug/L #	86
38) cis-1,3-Dichloropropene	4.03	75	36578543	222.16	ug/L	98
39) 4-Methyl-2-Pentanone (MIBK)	4.39	43	34302173	572.37	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	30369932	217.01	ug/L	93
41) 1,1,2-Trichloroethane	4.51	83	14601119	201.43	ug/L	97
43) Toluene	4.17	91	78056372	210.40	ug/L	97
44) Ethyl Methacrylate	4.50	69	18471371	263.26	ug/L	99
45) 1,3-Dichloropropane	4.69	76	27217366	206.80	ug/L	98
46) 2-Hexanone	4.91	43	23316489	568.49	ug/L	
48) Dibromochloromethane	4.63	129	24142719	202.10	ug/L	99
49) 1,2-Dibromoethane (EDB)	4.78	107	18693970	203.15	ug/L	98

(#) = qualifier out of range (m) = manual integration  
 0801008.D 021020RC.M Mon Feb 17 16:17:06 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\0801008.D  
 Acq On : 10 Feb 2020 5:22 pm  
 Sample : 200PPB 8260 ICAL  
 Misc : A  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 8:54 2020

Vial: 8  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 08:49:24 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	17373546	188.72 ug/L	96
51) 1,1,1,2-Tetrachloroethane	5.16	131	19907928	193.98 ug/L #	84
52) Chlorobenzene	5.12	112	54737282	199.81 ug/L	97
53) Ethylbenzene	5.14	91	90317604	203.43 ug/L	96
54) m,p-Xylene	5.24	91	123633261	355.73 ug/L #	88
55) o-Xylene	5.53	91	72805754	221.08 ug/L	98
56) Bromoform	5.58	173	11256773	200.71 ug/L	98
57) Styrene	5.57	104	55090496	230.57 ug/L	95
58) 1,1,2,2-Tetrachloroethane	6.10	83	18682230	196.03 ug/L	100
59) trans-1,4-Dichloro-2-buten	6.23	53	5130357	190.29 ug/L	88
60) 1,2,3-Trichloropropane	6.20	75	15215784	185.74 ug/L	90
61) Isopropylbenzene	5.75	105	79197632	229.43 ug/L	97
63) Bromobenzene	6.03	156	20473053	197.83 ug/L	99
64) n-Propylbenzene	6.05	91	97419091	197.12 ug/L	99
65) 2-Chlorotoluene	6.17	91	69508807	206.87 ug/L	99
66) 4-Chlorotoluene	6.29	126	20100088	230.62 ug/L	91
68) 1,3,5-Trimethylbenzene	6.20	105	59851175	189.92 ug/L	99
69) tert-Butylbenzene	6.44	119	58011233	195.82 ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	59809905	199.36 ug/L #	97
71) sec-Butylbenzene	6.57	105	74341224	194.97 ug/L #	96
72) 1,3-Dichlorobenzene	6.74	146	34239793	188.65 ug/L	96
73) 1,4-Dichlorobenzene	6.80	148	24006833	198.16 ug/L	96
74) p-Isopropyltoluene	6.68	119	53206160	200.70 ug/L	96
75) 1,2-Dichlorobenzene	7.13	146	32229876	195.12 ug/L	98
76) n-Butylbenzene	7.01	91	60571029	215.41 ug/L	97
77) 1,2-Dibromo-3-chloropropan	7.77	155	982024	168.73 ug/L	96
78) 1,2,4-Trichlorobenzene	8.33	180	13205287	204.21 ug/L	99
79) Naphthalene	8.60	128	18954720m	203.03 ug/L	96
80) Hexachloro-1,3-butadiene	8.31	225	5280722	176.17 ug/L	96
81) 1,2,3-Trichlorobenzene	8.76	180	10394619	204.11 ug/L	98
82) 1-Methylnaphthalene	9.64	142	2673834	190.98 ug/L	96
83) 2-Methylnaphthalene	9.50	142	2123973	178.53 ug/L	96

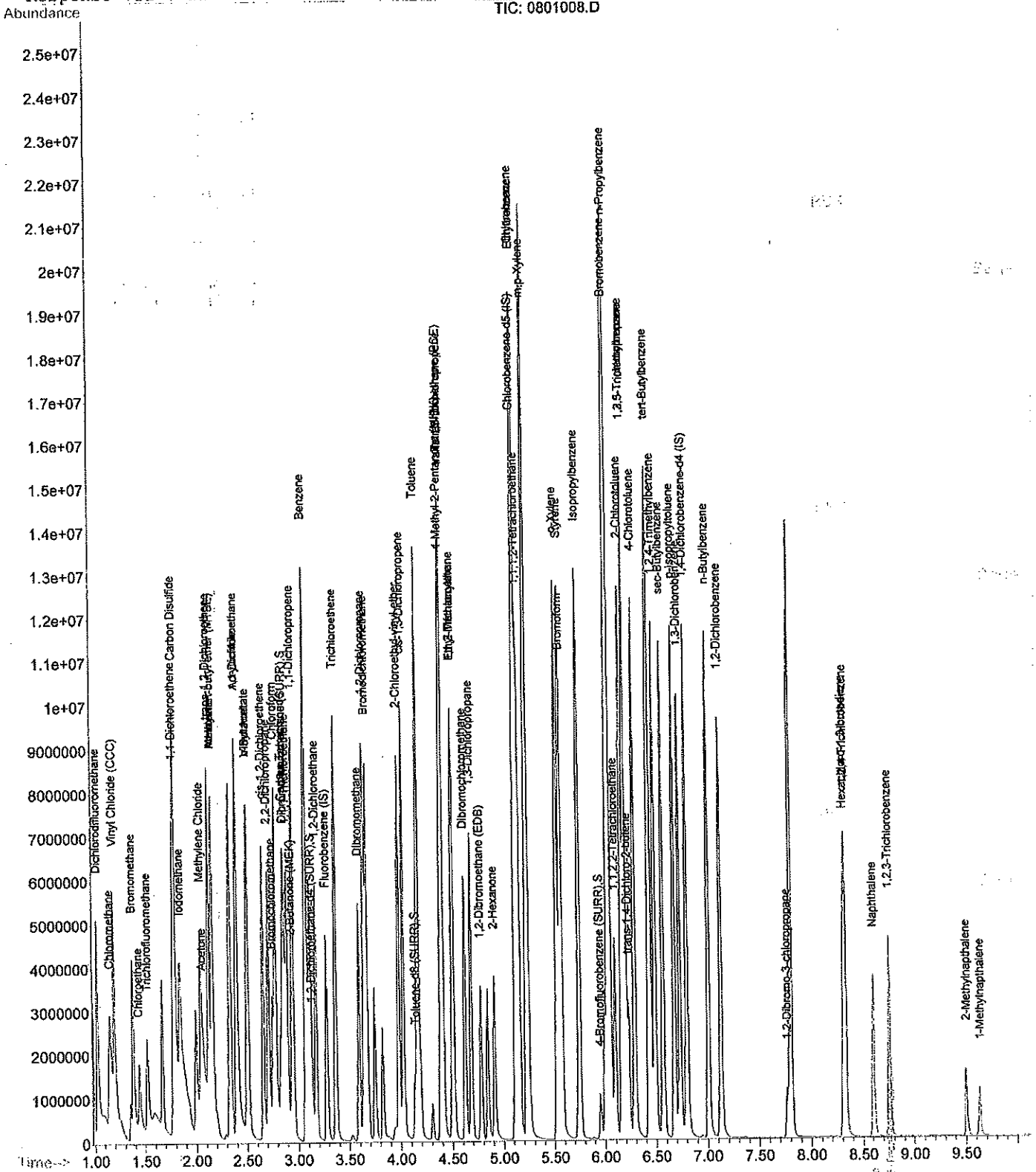
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020\0801008.D  
Acq On : 10 Feb 2020 5:22 pm  
Sample : 200PPB 8260 ICAL  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 11 8:54 2020

Vial: 8  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\021020\1001010.D  
 Acq On : 10 Feb 2020 5:56 pm  
 Sample : 50PPB 8260 ICV/LCS  
 Misc : A  
 MS Integration Params: EVENTS.E

Vial: 10  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 Fluorobenzene (IS)	1.000	1.000	0.0	107	0.00
2 Dichlorodifluoromethane	1.836	1.844	-0.4	99	0.00
3 Chloromethane	1.722	1.839	-6.8	108	0.00
4 Vinyl Chloride (CCC)	1.483	1.535	-3.5	105	0.00
5 Bromomethane	0.960	1.068	-11.3	113	0.00
6 Chloroethane	0.499	0.556	-11.4	109	0.00
7 Acrolein	0.491	0.445	9.4	103	0.00
8 Trichlorofluoromethane	1.272	1.288	-1.3	103	0.00
9 Acetone	0.091	0.099	-8.8	108	0.00
10 1,1-Dichloroethene	1.201	1.220	-1.6	106	0.00
11 Acrylonitrile	1.046	1.124	-7.5	107	0.00
12 Iodomethane	1.148	1.225	-6.7	107	0.00
13 Methylene Chloride	1.165	1.219	-4.6	111	0.00
14 Carbon Disulfide	2.570	2.551	0.7	104	0.00
15 trans-1,2-Dichloroethene	0.657	0.674	-2.6	109	0.00
16 Methyl-tert-butyl ether (MT)	0.731	0.842	-15.2	123	0.00
17 1,1-Dichloroethane	1.298	1.324	-2.0	104	0.00
18 Vinyl Acetate	1.155	1.241	-7.4	114	0.00
19 n-Hexane	0.743	0.751	-1.1	106	0.00
20 n-Butanol	0.263	0.288	-9.5	117	0.00
21 2-Butanone (MEK)	0.175	0.172	1.7	109	0.00
22 cis-1,2-Dichloroethene	0.957	1.025	-7.1	113	0.00
23 Bromochloromethane	0.295	0.327	-10.8	111	0.00
24 Chloroform	1.358	1.386	-2.1	107	0.00
25 2,2-Dichloropropane	0.956	0.957	-0.1	102	0.00
26 S Dibromofluoromethane (SURR)	0.355	0.368	-3.7	109	0.00
27 S 1,2-Dichloroethane-d4 (SURR)	0.443	0.491	-10.8	120	0.00
28 1,2-Dichloroethane	1.173	1.267	-8.0	112	0.00
29 1,1,1-Trichloroethane	1.063	1.027	3.4	102	0.00
30 1,1-Dichloropropene	1.009	1.020	-1.1	106	0.00
31 Carbon Tetrachloride	1.026	1.031	-0.5	103	0.00
32 Benzene	2.590	2.731	-5.4	111	0.00
33 Dibromomethane	0.515	0.569	-10.5	119	0.00
34 1,2-Dichloropropane	0.766	0.850	-11.0	112	0.00
35 Trichloroethene	0.758	0.805	-6.2	109	0.00
36 Bromodichloromethane	1.205	1.303	-8.1	112	0.00
37 2-Chloroethyl-vinyl-ether	0.190	0.188	1.1	117	0.00
38 cis-1,3-Dichloropropene	1.126	1.249	-10.9	119	0.00
39 4-Methyl-2-Pentanone (MIBK)	0.467	0.441	5.6	112	0.00
40 trans-1,3-Dichloropropene	1.049	1.065	-1.5	112	0.00
41 1,1,2-Trichloroethane	0.481	0.512	-6.4	112	0.00
42 S Toluene-d8 (SURR)	0.872	0.905	-3.8	101	0.00
43 Toluene	2.485	2.688	-8.2	114	0.00
44 Ethyl Methacrylate	0.572	0.573	-0.2	112	0.00
45 1,3-Dichloropropane	0.866	0.988	-14.1	121	0.00
46 2-Hexanone	0.302	0.313	-3.6	126	0.00
47 Chlorobenzene-d5 (IS)	1.000	1.000	0.0	105	0.00
48 Dibromochloromethane	1.122	1.218	-8.6	114	0.00
49 1,2-Dibromoethane (EDB)	0.867	0.944	-8.9	115	0.00
50 Tetrachloroethene (PCE)	0.866	0.925	-6.8	115	0.00
51 1,1,1,2-Tetrachloroethane	0.980	0.988	-0.8	108	0.00
52 Chlorobenzene	2.598	2.754	-6.0	113	0.00
53 Ethylbenzene	4.261	4.578	-7.4	112	0.00
54 m,p-Xylene	3.268	3.545	-8.5	111	0.00
55 o-Xylene	3.311	3.371	-1.8	113	0.00
56 Bromoform	0.520	0.575	-10.6	118	0.00
57 Styrene	2.357	2.697	-14.4	115	0.00
58 1,1,2,2-Tetrachloroethane	0.928	0.974	-5.0	119	0.00
59 trans-1,4-Dichloro-2-butene	0.249	0.242	2.8	100	0.00
60 1,2,3-Trichloropropane	0.748	0.685	8.4	93	0.00
61 Isopropylbenzene	3.311	3.782	-14.2	112	0.00

62 S	4-Bromofluorobenzene (SURR)	0.510	0.566	-11.0	112	0.00
63	Bromobenzene	0.976	1.056	-8.2	115	0.00
64	n-Propylbenzene	4.736	4.851	-2.4	107	0.00
65	2-Chlorotoluene	3.212	3.463	-7.8	110	0.00
66	4-Chlorotoluene	0.868	0.999	-15.1	112	0.00
67	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	114	0.00
68	1,3,5-Trimethylbenzene	3.597	3.299	8.3	110	0.00
69	tert-Butylbenzene	3.373	3.192	5.4	111	0.00
70	1,2,4-Trimethylbenzene	3.431	3.203	6.6	112	0.00
71	sec-Butylbenzene	4.356	4.147	4.8	116	0.00
72	1,3-Dichlorobenzene	1.996	1.971	1.3	124	0.00
73	1,4-Dichlorobenzene	1.327	1.292	2.6	123	0.00
74	p-Isopropyltoluene	2.986	3.069	-2.8	117	0.00
75	1,2-Dichlorobenzene	1.874	1.832	2.2	121	0.00
76	n-Butylbenzene	3.234	3.190	1.4	111	0.00
77	1,2-Dibromo-3-chloropropane	0.064	0.074	-15.6	121	0.00
78	1,2,4-Trichlorobenzene	0.718	0.764	-6.4	120	0.00
79	Naphthalene	1.022	0.972	4.9	110	0.00
80	Hexachloro-1,3-butadiene	0.305	0.325	-6.6	126	0.00
81	1,2,3-Trichlorobenzene	0.571	0.642	-12.4	136	0.00
82	1-Methylnaphthalene	0.136	0.130	4.4	95	0.00
83	2-Methylnaphthalene	0.117	0.118	-0.9	110	0.00

(#) = Out of Range  
0101001.D 021020RC.M

SPCC's out = 0 CCC's out = 0  
Mon Feb 17 16:17:11 2020



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\1001010.D  
 Acq On : 10 Feb 2020 5:56 pm  
 Sample : 50PPB 8260 ICV/LCS  
 Misc : A

Vial: 10  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 10:05 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.28	96	7006886	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	5.11	117	4750449	50.00	ug/L	0.00
67) 1,4-Dichlorobenzene-d4 (IS)	6.80	150	4299597	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	2.87	113	2579590	51.78	ug/L	0.00
Spiked Amount : 50.000	Range	74 - 132	Recovery =	103.56%		
27) 1,2-Dichloroethane-d4 (SUR)	3.14	65	3439407	55.43	ug/L	0.00
Spiked Amount : 50.000	Range	77 - 134	Recovery =	110.86%		
42) Toluene-d8 (SURR)	4.14	98	6343493	51.90	ug/L	0.00
Spiked Amount : 50.000	Range	67 - 130	Recovery =	103.80%		
62) 4-Bromofluorobenzene (SURR)	5.96	95	2686582	55.43	ug/L	0.00
Spiked Amount : 50.000	Range	65 - 133	Recovery =	110.86%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	12919977	50.21	ug/L	
3) Chloromethane	1.15	50	12886727	53.41	ug/L	98
4) Vinyl Chloride (CCC)	1.20	62	10752671	51.76	ug/L	99
5) Bromomethane	1.38	94	7483169	55.61	ug/L	
6) Chloroethane	1.45	64	3894111	55.67	ug/L	97
7) Acrolein	2.16	56	3119507	45.37	ug/L	
8) Trichlorofluoromethane	1.53	101	9024863	50.63	ug/L	
9) Acetone	2.07	43	1732081	135.30	ug/L #	94
10) 1,1-Dichloroethene	1.77	61	8549703	50.78	ug/L	
11) Acrylonitrile	2.40	53	7876882	53.72	ug/L #	89
12) Iodomethane	1.85	142	8581003	53.32	ug/L	100
13) Methylene Chloride	2.05	49	8544785	52.32	ug/L #	78
14) Carbon Disulfide	1.80	76	17876514	49.64	ug/L	95
15) trans-1,2-Dichloroethene	2.13	96	4724995	51.34	ug/L	96
16) Methyl-tert-butyl ether (M)	2.17	73	5898318	57.61	ug/L	87
17) 1,1-Dichloroethane	2.41	63	9278966	51.02	ug/L	97
18) Vinyl Acetate	2.51	43	8694643	53.71	ug/L	99
19) n-Hexane	2.16	57	5263091	50.56	ug/L	93
20) n-Butanol	2.51	57	2014974	54.73	ug/L	95
21) 2-Butanone (MEK)	2.94	43	3019117	123.26	ug/L	97
22) cis-1,2-Dichloroethene	2.66	61	7184983	53.58	ug/L	98
23) Bromochloromethane	2.76	128	2290257	55.35	ug/L #	99
24) Chloroform	2.79	83	9714697	51.04	ug/L	93
25) 2,2-Dichloropropane	2.72	77	6705946	50.06	ug/L	98
28) 1,2-Dichloroethane	3.18	62	8874448	54.00	ug/L	99
29) 1,1,1-Trichloroethane	2.89	97	7196257	48.29	ug/L	99
30) 1,1-Dichloropropene	2.95	75	7144442	50.55	ug/L	99
31) Carbon Tetrachloride	2.86	117	7223070	50.24	ug/L	100
32) Benzene	3.08	78	19133849	52.71	ug/L	99
33) Dibromomethane	3.60	93	3989684	55.29	ug/L	97
34) 1,2-Dichloropropane	3.65	63	5959272	55.48	ug/L	96
35) Trichloroethene	3.37	95	5642397	53.11	ug/L	99
36) Bromodichloromethane	3.68	83	9132809	54.08	ug/L	100
37) 2-Chloroethyl-vinyl-ether	3.99	63	5268425	198.01	ug/L	95
38) cis-1,3-Dichloropropene	4.03	75	8749666	55.45	ug/L	96
39) 4-Methyl-2-Pentanone (MIBK)	4.38	43	7727955	118.16	ug/L	
40) trans-1,3-Dichloropropene	4.41	75	7465672	50.81	ug/L	97
41) 1,1,2-Trichloroethane	4.51	83	3590751	53.23	ug/L	94
43) Toluene	4.17	91	18833842	54.07	ug/L	98
44) Ethyl Methacrylate	4.50	69	4015406	50.07	ug/L	94
45) 1,3-Dichloropropane	4.69	76	6923638	57.03	ug/L	99
46) 2-Hexanone	4.92	43	5489284m	129.62	ug/L	
48) Dibromochloromethane	4.63	129	5786260	54.29	ug/L	99
49) 1,2-Dibromoethane (EDB)	4.78	107	4482373	54.38	ug/L	100

(#) = qualifier out of range (m) = manual integration  
 1001010.D 021020RC.M Mon Feb 17 16:17:18 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020\1001010.D  
 Acq On : 10 Feb 2020 5:56 pm  
 Sample : 50PPB 8260 ICV/LCS  
 Misc : A

Vial: 10  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 11 10:05 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Page 1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.40	166	4395968	53.44	ug/L	96
51) 1,1,1,2-Tetrachloroethane	5.16	131	4692509	50.41	ug/L	98
52) Chlorobenzene	5.12	112	13082305	53.00	ug/L	98
53) Ethylbenzene	5.14	91	21748789	53.73	ug/L	100
54) m,p-Xylene	5.23	91	33679321	108.47	ug/L	99
55) o-Xylene	5.53	91	16013908	50.91	ug/L	97
56) Bromoform	5.58	173	2731282	55.23	ug/L	99
57) Styrene	5.57	104	12813791	57.22	ug/L	94
58) 1,1,2,2-Tetrachloroethane	6.10	83	4624818	52.47	ug/L	98
59) trans-1,4-Dichloro-2-buten	6.23	53	1149138	48.48	ug/L	91
60) 1,2,3-Trichloropropane	6.20	75	3254688	45.81	ug/L	79
61) Isopropylbenzene	5.75	105	17967925	57.12	ug/L	99
63) Bromobenzene	6.03	156	5017178	54.13	ug/L	99
64) n-Propylbenzene	6.05	91	23042645	51.21	ug/L	99
65) 2-Chlorotoluene	6.17	91	16449734	53.91	ug/L	98
66) 4-Chlorotoluene	6.29	126	4745359	57.55	ug/L	92
68) 1,3,5-Trimethylbenzene	6.20	105	14185130	45.86	ug/L	98
69) tert-Butylbenzene	6.44	119	13723526	47.31	ug/L	96
70) 1,2,4-Trimethylbenzene	6.49	105	13772737	46.68	ug/L #	95
71) sec-Butylbenzene	6.57	105	17828686	47.60	ug/L #	98
72) 1,3-Dichlorobenzene	6.74	146	8474576	49.38	ug/L	97
73) 1,4-Dichlorobenzene	6.80	148	5556497	48.69	ug/L	93
74) p-Isopropyltoluene	6.68	119	13197167	51.39	ug/L	99
75) 1,2-Dichlorobenzene	7.13	146	7878908	48.90	ug/L	99
76) n-Butylbenzene	7.01	91	13716856	49.33	ug/L	98
77) 1,2-Dibromo-3-chloropropan	7.77	155	318378	58.28	ug/L	98
78) 1,2,4-Trichlorobenzene	8.33	180	3284379	53.17	ug/L	97
79) Naphthalene	8.60	128	4178011	47.55	ug/L	93
80) Hexachloro-1,3-butadiene	8.32	225	1396298	53.31	ug/L	93
81) 1,2,3-Trichlorobenzene	8.76	180	2758486	56.16	ug/L	99
82) 1-Methylnaphthalene	9.63	142	560699	47.85	ug/L	97
83) 2-Methylnaphthalene	9.51	142	508357	50.66	ug/L	97

Page 2



# Injection Log

Directory: C:\HPCHEM1\DATA\011820C

011820RC - VOC1

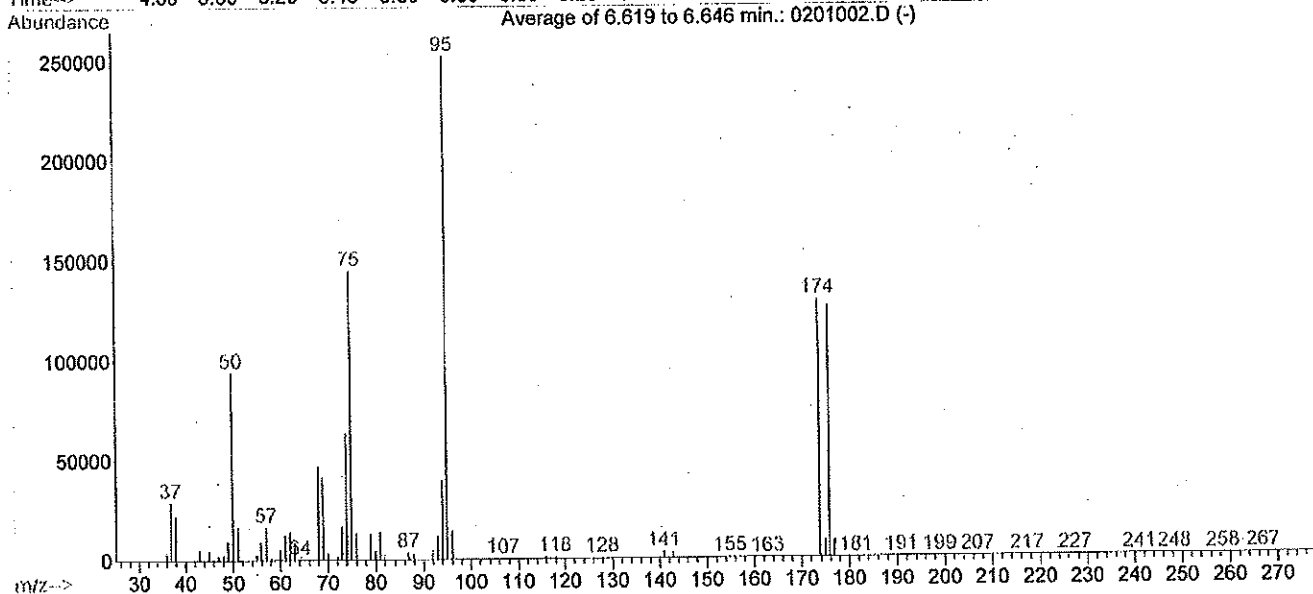
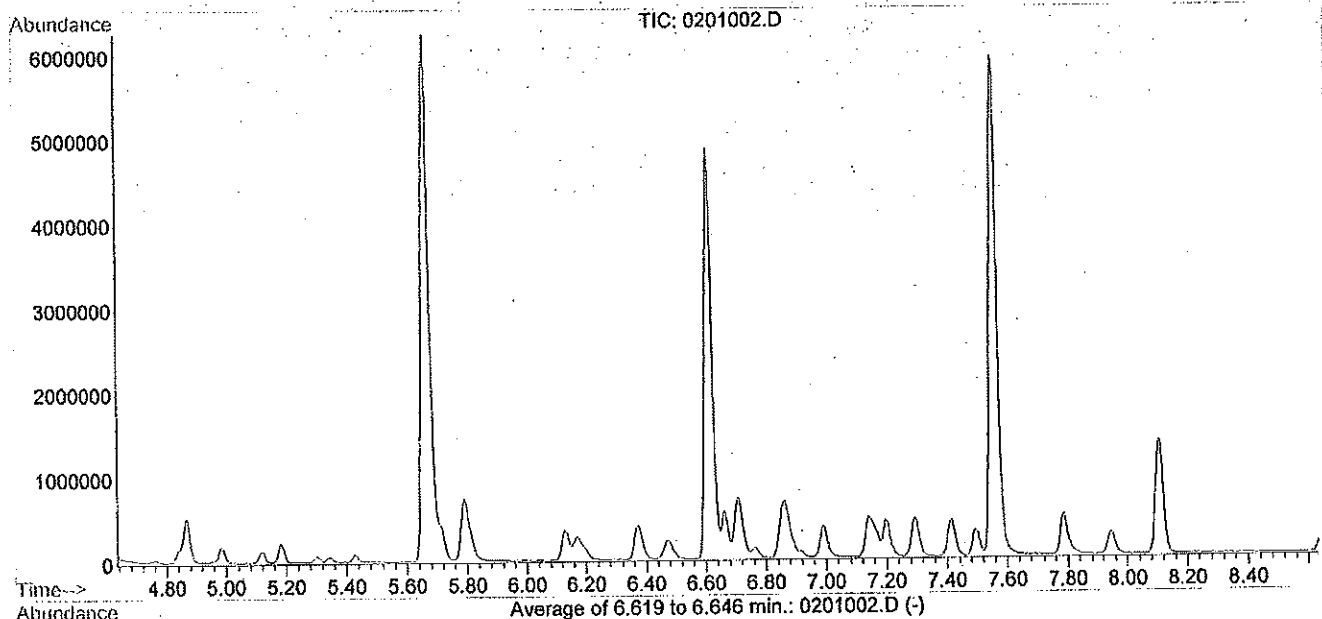
8260 Curve

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	1ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 07:59
2	2	0201002.D	1.	5ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 08:16
3	3	0301003.D	1.	10ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 08:32
4	4	0401004.D	1.	20ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 08:49
5	5	0501005.D	1.	50ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 09:06
6	6	0601006.D	1.	100ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 09:22
7	7	0701007.D	1.	200ppb 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 09:39
8	8	0801008.D	1.	50ppb ICV 8260 ical	092319 VOC1 curve, 8260 ical	18 Jan 2020 09:56
9	9	0901009.D	1.	MB	092319 VOC1 curve, 8260 ical	18 Jan 2020 10:12
10	10	1001010.D	1.	782 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 10:29
11	11	1101011.D	1.	783 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 10:45
12	12	1201012.D	1.	784 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 11:02
13	13	1301013.D	1.	785 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 11:19
14	14	1401014.D	1.	786 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 11:36
15	15	1501015.D	1.	787 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 11:52
16	16	1601016.D	1.	788 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 12:09
17	17	1701017.D	1.	789 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 12:26
18	18	1801018.D	1.	790 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 12:42
19	19	1901019.D	1.	791 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 12:59
20	20	2001020.D	1.	792 dup rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 13:16
21	21	2101021.D	1.	776 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 13:32
22	22	2201022.D	1.	777 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 13:49
23	23	2301023.D	1.	778 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 14:06
24	24	2401024.D	1.	779 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 14:22
25	25	2501025.D	1.	780 rush	092319 VOC1 curve, 8260 ical	18 Jan 2020 14:39
26	26	2601026.D	1.	680	092319 VOC1 curve, 8260 ical	18 Jan 2020 14:56
27	27	2701027.D	1.	681	092319 VOC1 curve, 8260 ical	18 Jan 2020 15:12
28	28	2801028.D	1.	682	092319 VOC1 curve, 8260 ical	18 Jan 2020 15:29
29	29	2901029.D	1.	683	092319 VOC1 curve, 8260 ical	18 Jan 2020 15:46

BFB

Data File : C:\HPCHEM\1\DATA\011820C\0201002.D  
Acq On : 18 Jan 2020 8:16 am  
Sample : 5ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration

Vial: 2  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00



Spectrum Information: Average of 6.619 to 6.646 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	37.3	94115	PASS
75	95	30	60	57.5	144894	PASS
95	95	100	100	100.0	252192	PASS
96	95	5	9	5.6	14228	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	51.1	128902	PASS
175	174	5	9	6.5	8407	PASS
176	174	95	101	97.7	125994	PASS
177	176	4	9	6.7	8460	PASS

Response Factor Report VOC 1

Method : C:\NPHCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration

Calibration Files  
 20 =0401004.D 50 =0501005.D 100 =0601006.D  
 200 =0701007.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
-----ISTD-----								
1) Fluorobenzene (IS)								
2) Dichlorodifluoromet	1.879	2.367	2.256	1.980	1.796	1.627	1.984	14.16
3) Chloromethane	1.134	1.229	1.223	1.227	1.208	1.185	1.201	3.07
4) m Vinyl Chloride*	1.164	1.612	1.537	1.423	1.253	1.242	1.372	13.10
5) Bromomethane	1.584	1.705	1.710	1.430	1.730	1.646	1.634	6.95
6) Chloroethane	0.974	1.079	0.998	0.970	0.731	0.964	0.953	12.23
7) Acrolein	0.993	1.227	1.222	1.142	1.186	1.080	1.142	7.98
8) Trichlorofluorometh	3.968	4.552	4.365	3.466	4.338	3.962	4.108	9.55
9) Acetone	0.335	0.338	0.299	0.279	0.305	0.259	0.303	10.14
10) m 1,1-Dichloroethene*	3.014	3.216	3.428	2.936	3.338	3.085	3.170	6.04
11) Acrylonitrile	3.290	3.605	3.594	3.831	3.590	3.386	3.549	5.35
12) Iodomethane	1.089	1.442	1.570	1.579	1.268	1.234	1.364	14.53
13) Methylene Chloride	1.360	1.388	1.375	1.236	1.390	1.251	1.333	5.30
14) Carbon Disulfide	1.891	2.193	2.300	2.194	2.128	1.923	2.105	7.75
15) m trans-1,2-Dichloroe	1.111	1.315	1.299	1.280	1.236	1.181	1.237	6.36
16) m Methyl-tert-butyl e	2.659	3.064	2.963	2.756	3.030	2.753	2.871	5.89
17) m 1,1-Dichloroethane*	3.474	3.709	3.696	3.546	4.071	3.497	3.665	6.06
18) Vinyl Acetate	2.052	2.616	2.020	2.274	2.177	2.059	2.200	10.23
19) N-Hexane	2.066	2.320	2.325	2.202	2.277	1.950	2.190	6.95
20) N-Butanol	1.074	1.167	1.103	1.059	1.209	1.139	1.125	5.09
21) 2-Butanone (MEK)	0.329	0.336	0.308	0.285	0.356	0.320	0.322	7.52
22) m cis-1,2-Dichloroeth	2.020	2.339	2.300	2.324	2.175	2.234	2.232	5.40
23) Bromochloromethane	0.308	0.365	0.348	0.368	0.326	0.322	0.339	7.22
24) m Chloroform*	2.684	3.089	3.064	2.988	3.205	2.804	2.972	6.51
25) 2-2-Dichloropropane	2.811	3.227	3.207	3.174	3.025	2.952	3.066	5.40
26) s Dibromofluoromethan	0.422	0.399	0.336	0.303	0.391	0.372	0.371	11.82
27) s 1,2-Dichloroethane-	0.580	0.572	0.452	0.419	0.538	0.546	0.518	12.84
28) 1,2-Dichloroethane	2.217	2.569	2.427	2.250	2.724	2.289	2.413	8.33
29) m 1,1,1-Trichloroetha	2.823	3.251	3.302	3.347	3.130	2.759	3.102	8.13
30) 1,1-Dichloropropene	1.803	2.102	2.162	2.218	1.848	1.775	1.985	9.96
31) Carbon Tetrachlorid	2.525	2.925	2.974	3.068	2.844	2.617	2.826	7.51
32) m Benzene*	3.180	3.777	4.049	3.934	3.521	3.195	3.609	10.30
33) Dibromomethane	0.673	0.755	0.727	0.682	0.758	0.656	0.708	6.24
34) 1,2-Dichloropropane	0.948	1.058	1.046	1.033	0.979	0.880	0.990	6.93
35) m Trichloroethene*	1.240	1.418	1.415	1.448	1.377	1.196	1.349	7.77
36) Bromodichloromethan	1.856	2.175	2.167	2.136	2.063	1.932	2.055	6.46
37) 2-Chloroethyl-vinyl	0.226	0.268	0.269	0.209	0.256	0.257	0.248	9.86
38) cis-1,3-Dichloropro	1.443	1.713	1.683	1.696	1.494	1.472	1.583	7.96
39) 4-Methyl-2-Pentanone	0.672	0.847	0.775	0.702	0.671	0.684	0.725	9.82
40) trans-1,3-Dichlorop	1.384	1.637	1.607	1.564	1.455	1.384	1.505	7.47
41) 1,1,2-Trichloroetha	0.528	0.634	0.575	0.553	0.592	0.524	0.568	7.36
42) s Toluene-d8 (SURR)	1.033	1.029	0.902	0.925	0.987	0.901	0.963	6.36
43) m Toluene*	3.735	4.466	4.700	4.505	4.369	3.880	4.276	8.91
44) Ethyl Methacrylate	0.116	0.145	0.152	0.130	0.141	0.130	0.136	9.56
45) 1,3-Dichloropropane	1.121	1.316	1.249	1.174	1.225	1.051	1.189	7.95
46) 2-Hexanone	0.457	0.566	0.545	0.485	0.452	0.447	0.492	10.42
-----ISTD-----								
47) Chlorobenzene-d5 (IS)								
48) Dibromochloromethan	1.120	1.318	1.259	1.109	1.332	1.308	1.241	8.16
49) 1,2-Dibromoethane (	0.884	0.998	0.918	0.815	1.023	0.973	0.935	8.37
50) Tetrachloroethene	0.936	1.113	1.148	1.126	1.189	1.132	1.107	7.95
51) m 1,1,1,2-Tetrachloro	1.066	1.249	1.214	1.137	1.220	1.265	1.192	6.37
52) m Chlorobenzene*	2.870	3.493	3.681	3.506	3.756	3.359	3.444	9.15
53) m Ethyl Benzene*	6.718	8.335	7.633	6.234	8.710	7.853	7.580	12.49
54) m,p-Xylene	5.216	6.689	6.094	4.979	6.871	6.472	6.053	13.02
55) m o-Xylene*	1.766	2.287	2.259	2.158	2.176	2.166	2.136	8.83
56) Bromoform	0.470	0.585	0.556	0.485	0.630	0.550	0.546	11.10
57) Styrene	2.675	3.422	3.455	3.195	3.271	3.219	3.206	8.76
58) 1,1,2,2-Tetrachloro	0.609	0.696	0.635	0.537	0.760	0.719	0.660	12.34
59) trans-1,4-Dichloro-	0.374	0.476	0.447	0.363	0.467	0.469	0.432	11.72

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration

Calibration Files  
 20 =0401004.D 50 =0501005.D 100 =0601006.D  
 200 =0701007.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
60) 1,2,3-Trichloroprop	1.315	1.614	1.427	1.315	1.112	1.544	1.388	13.03
61) Isopropylbenzene	6.322	8.013	6.762	6.025	7.495	7.159	6.963	10.66
62) s 4-Bromofluorobenz	0.688	0.691	0.602	0.547	0.697	0.720	0.658	10.29
63) Bromobenzene	0.852	1.081	1.082	1.062	0.973	1.066	1.020	8.96
64) m N-Propylbenzene*	0.859	1.094	1.071	0.892	1.037	1.037	0.998	E1 9.83
65) 2-Chlorotoluene	5.734	7.086	7.110	5.940	6.858	6.802	6.588	9.08
66) 4-Chlorotoluene	1.010	1.314	1.271	1.189	1.272	1.193	1.208	9.00
-----ISTD-----								
67) 1,4-Dichlorobenzene	1.345	1.624	1.603	1.436	1.677	1.474	1.527	E1 8.39
68) 1,3,5-Trimethylbenz	1.167	1.404	1.385	1.432	1.520	1.244	1.359	E1 9.52
69) tert-butylbenzene	1.287	1.627	1.573	1.395	1.689	1.405	1.496	E1 10.47
70) 1,2,4-Trimethylbenz	1.809	2.195	2.210	1.560	2.261	1.970	2.001	E1 13.79
71) sec-Butylbenzene	4.274	5.085	4.899	5.072	5.626	4.619	4.929	9.32
72) 1,3-Dichlorobenzene	2.624	3.182	3.030	3.095	3.425	3.337	3.116	9.06
73) 1,4-Dichlorobenzene	1.305	1.609	1.640	1.360	1.640	1.416	1.495	E1 10.18
74) p-Isopropyltoluene	3.817	4.345	4.131	4.280	4.880	3.859	4.219	9.21
75) 1,2-Dichlorobenzene	1.715	2.063	1.990	1.489	2.102	2.035	1.899	E1 12.83
76) N-Butylbenzene	0.190	0.229	0.193	0.187	0.262	0.203	0.211	14.00
77) 1,2-Dibromo-3-chlor	2.677	3.153	2.852	3.060	3.575	2.772	3.015	10.84
78) 1,2,4-Trichlorobenz	4.001	5.073	4.505	4.513	4.562	4.165	4.470	8.31
79) Naphthalene	1.633	1.901	1.769	1.804	2.071	1.782	1.827	8.07
80) Hexachloro-1,3-buta	2.205	2.618	2.267	2.370	2.778	2.462	2.450	8.86
81) 1,2,3-Trichlorobenz	1.538	2.022	1.864	1.794	1.607	1.330	1.692	14.74
82) 1-Methylnaphthalene	1.663	2.449	2.261	2.275	2.344	2.140	2.189	12.65
83) 2-Methylnaphthalene								

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0101001.D  
 Acq On : 18 Jan 2020 7:59 am  
 Sample : 1ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 9:09 2020

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev.(Min)
1) Fluorobenzene (IS)	3.62	96	441610	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	328376	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	126468	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev.(Min)
26) Dibromofluoromethane (SURR)	3.17	113	186823	57.07	ppb	0.00
Spiked Amount 50.000	Range 54 - 140		Recovery =	114.14%		
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	261121	57.10	ppb	0.00
Spiked Amount 50.000	Range 54 - 138		Recovery =	114.20%		
42) Toluene-d8 (SURR)	4.57	98	454672	53.46	ppb	0.00
Spiked Amount 50.000	Range 61 - 127		Recovery =	106.92%		
62) 4-Bromofluorobenzene (SURR)	6.61	95	218056	50.49	ppb	0.00
Spiked Amount 50.000	Range 69 - 131		Recovery =	100.98%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	20556	1.17	ppb	84
3) Chloromethane	1.43	50	53023	5.00	ppb	# 53
4) Vinyl Chloride*	1.46	62	16893	1.39	ppb	# 68
5) Bromomethane	1.63	94	26589	1.84	ppb	# 74
6) Chloroethane	1.69	64	8546	1.02	ppb	# 45
7) Acrolein	2.40	56	15908	1.58	ppb	# 31
8) Trichlorofluoromethane	1.77	101	45248	1.25	ppb	94
9) Acetone	2.32	43	98422	36.82	ppb	# 84
10) 1,1-Dichloroethene*	2.02	61	37178	1.33	ppb	93
11) Acrylonitrile	2.67	53	42367	1.35	ppb	87
12) Iodomethane	2.11	142	14180m	1.18	ppb	
13) Methylene Chloride	2.30	84	68410	5.81	ppb	89
14) Carbon Disulfide	2.05	76	28939	1.56	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	11601	1.06	ppb	# 65
16) Methyl-tert-butyl ether* (	2.41	73	32635	1.29	ppb	97
17) 1,1-Dichloroethane*	2.68	63	39081	1.21	ppb	# 71
18) Vinyl Acetate	2.78	43	43548	2.24	ppb	100
19) N-Hexane	2.40	57	24925	1.29	ppb	# 86
20) N-Butanol	2.77	57	12436	1.25	ppb	# 94
21) 2-Butanone (MEK)	3.24	43	18748	6.59	ppb	# 84
22) cis-1,2-Dichloroethene*	2.95	61	26237	1.33	ppb	92
23) Bromochloromethane	3.05	128	3798m	1.27	ppb	
24) Chloroform*	3.08	83	35428	1.35	ppb	99
25) 2-2-Dichloropropane	3.01	77	31935	1.18	ppb	93
28) 1,2-Dichloroethane	3.51	62	28017	1.31	ppb	# 96
29) 1,1,1-Trichloroethane*	3.20	97	31826	1.16	ppb	95
30) 1,1-Dichloropropene	3.26	75	18410	1.05	ppb	89
31) Carbon Tetrachloride	3.17	117	27280	1.09	ppb	97
32) Benzene*	3.39	78	38490	1.21	ppb	92
33) Dibromomethane	3.97	93	8504	1.36	ppb	91
34) 1,2-Dichloropropane	4.03	63	11094	1.27	ppb	# 89
35) Trichloroethene*	3.72	95	16120	1.35	ppb	88
36) Bromodichloromethane	4.05	83	21868	1.21	ppb	96
37) 2-Chloroethyl-vinyl ether	4.38	63	10526	4.81	ppb	96
38) cis-1,3-Dichloropropene	4.44	75	15159	1.08	ppb	88
39) 4-Methyl-2-Pentanone (MIBK)	4.84	43	17815	2.78	ppb	# 93
40) trans-1,3-Dichloropene	4.87	75	14548	1.09	ppb	93
41) 1,1,2-Trichloroethane	4.99	83	5528	1.10	ppb	95
43) Toluene*	4.60	91	61589	1.63	ppb	99
44) Ethyl Methacrylate	4.96	69	1355m	1.13	ppb	
45) 1,3-Dichloropropane	5.18	76	12225	1.16	ppb	86
46) 2-Hexanone	5.43	43	13511	3.11	ppb	89
48) Dibromochloromethane	5.12	129	8870m	1.09	ppb	
49) 1,2-Dibromoethane (EDB)	5.30	107	6582	1.07	ppb	# 75

(#) = qualifier out of range (m) = manual integration  
 0101001.D 011820RC.M Mon Jan 20 09:10:17 2020

GARY



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0101001.D  
 Acq On : 18 Jan 2020 7:59 am  
 Sample : 1ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 9:09 2020

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.86	166	7337	1.01	ppb	# 71
51) 1,1,1,2-Tetrachloroethane*	5.71	131	10688	1.37	ppb	# 60
52) Chlorobenzene*	5.67	112	25613	1.13	ppb	83
53) Ethyl Benzene*	5.68	91	67989	1.37	ppb	# 78
54) m,p-Xylene	5.79	91	115332	2.90	ppb	94
55) o-Xylene*	6.13	106	16250	1.16	ppb	94
56) Bromoform	6.20	173	3591m	1.00	ppb	
57) Styrene	6.17	104	22525m	1.07	ppb	
58) 1,1,2,2-Tetrachloroethane	6.77	85	4594	1.06	ppb	# 90
59) trans-1,4-Dichloro-2-buten	6.91	53	3265m	1.15	ppb	
60) 1,2,3-Trichloropropane	6.88	75	10539	1.16	ppb	# 84
61) Isopropylbenzene	6.37	105	46766m	1.02	ppb	
63) Bromobenzene	6.71	156	7573	1.13	ppb	94
64) N-Propylbenzene*	6.71	91	68534m	1.05	ppb	
65) 2-Chlorotoluene	6.85	91	43476m	1.00	ppb	
66) 4-Chlorotoluene	6.99	126	7945m	1.00	ppb	
68) 1,3,5-Trimethylbenzene	6.86	105	39853	1.03	ppb	98
69) tert-butylbenzene	7.14	119	37862m	1.10	ppb	
70) 1,2,4-Trimethylbenzene	7.20	105	42694	1.13	ppb	94
71) sec-Butylbenzene	7.29	105	52374	1.03	ppb	# 93
72) 1,3-Dichlorobenzene	7.49	146	12980m	1.04	ppb	
73) 1,4-Dichlorobenzene	7.50	148	8493	1.08	ppb	88
74) p-Isopropyltoluene	7.42	119	40035m	1.06	ppb	
75) 1,2-Dichlorobenzene	7.94	146	11373	1.07	ppb	93
76) N-Butylbenzene	7.79	91	52144m	1.09	ppb	
77) 1,2-Dibromo-3-chloropropan	8.71	155	627m	1.18	ppb	
78) 1,2,4-Trichlorobenzene	9.30	180	10161	1.33	ppb	80
79) Naphthalene	9.61	128	13790m	1.22	ppb	
80) Hexachloro-1,3-butadiene	9.26	225	5590	1.21	ppb	92
81) 1,2,3-Trichlorobenzene	9.78	180	8196	1.32	ppb	87
82) 1-Methylnaphthalene	10.77	142	5583	1.30	ppb	89
83) 2-Methylnaphthalene	10.62	142	5987	1.08	ppb	92

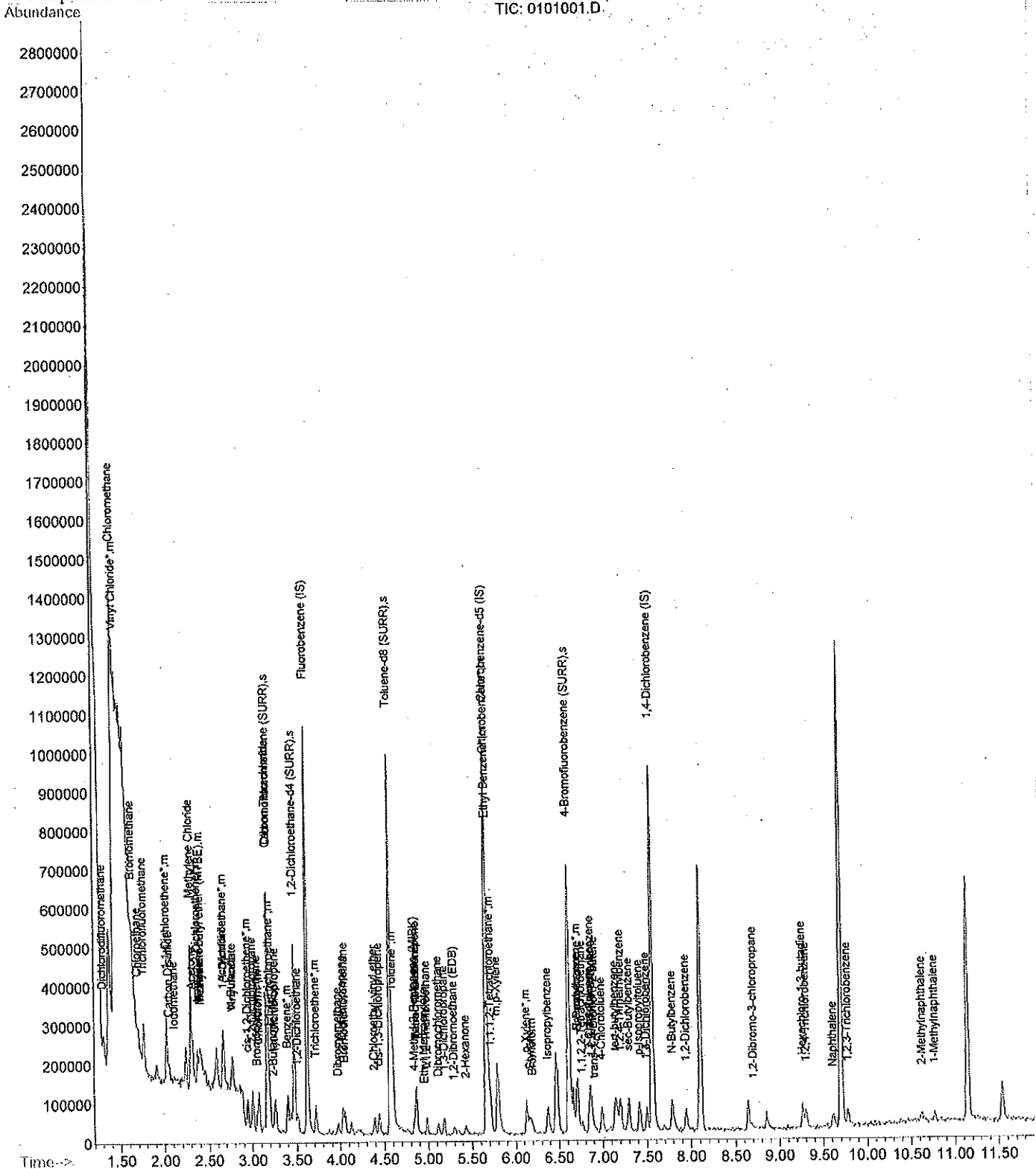
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0101001.D  
Acq On : 18 Jan 2020 7:59 am  
Sample : lppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 9:09 2020

Vial: 1  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0201002.D  
 Acq On : 18 Jan 2020 8:16 am  
 Sample : 5ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:18 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 122319RC.RES

Quant Method : C:\HPCHEM\MSEXEX\122319RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Tue Dec 24 10:43:39 2019  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	460024m	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	327928m	50.00	ppb	0.01
67) 1,4-Dichlorobenzene (IS)	7.56	152	125153m	50.00	ppb	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	187556m	72.01	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	144.02%#
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	258400m	88.89	ppb	0.01
Spiked Amount	50.000	Range	54 - 138	Recovery	=	177.78%#
42) Toluene-d8 (SURR)	4.57	98	473812m	57.87	ppb	0.01
Spiked Amount	50.000	Range	61 - 127	Recovery	=	115.74%
62) 4-Bromofluorobenzene (SURR)	6.61	95	228593m	66.29	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	132.58%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	86203	7.28	ppb	95
3) Chloromethane	1.42	50	57980	6.54	ppb	# 86
4) Vinyl Chloride*	1.46	62	60141	7.08	ppb	94
5) Bromomethane	1.63	94	113033	24.39	ppb	82
6) Chloroethane	1.69	64	35111	5.40	ppb	66
7) Acrolein	2.40	56	56911	7.71	ppb	# 76
8) Trichlorofluoromethane	1.76	101	208248	11.02	ppb	100
9) Acetone	2.32	43	76625	55.66	ppb	90
10) 1,1-Dichloroethene*	2.02	61	160220	10.69	ppb	95
11) Acrylonitrile	2.66	53	172332	10.63	ppb	98
12) Iodomethane	2.10	142	30887m	4.68	ppb	
13) Methylene Chloride	2.30	84	106716	12.90	ppb	86
14) Carbon Disulfide	2.05	76	102150	8.55	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	59322	9.54	ppb	93
16) Methyl-tert-butyl ether* (	2.42	73	145456	11.07	ppb	# 100
17) 1,1-Dichloroethane*	2.68	63	195426	11.41	ppb	95
18) Vinyl Acetate	2.78	43	154493	14.65	ppb	99
19) N-Hexane	2.40	57	109285	7.99	ppb	99
20) N-Butanol	2.77	57	58022	10.72	ppb	# 86
21) 2-Butanone (MEK)	3.24	43	42702	19.01	ppb	# 90
22) cis-1,2-Dichloroethene*	2.95	61	104391	6.83	ppb	92
23) Bromochloromethane	3.05	128	15656	6.32	ppb	60
24) Chloroform*	3.07	83	153826	8.05	ppb	99
25) 2-2-Dichloropropane	3.00	77	145224	7.85	ppb	96
28) 1,2-Dichloroethane	3.51	62	130772	10.29	ppb	91
29) 1,1,1-Trichloroethane*	3.20	97	150231	8.58	ppb	97
30) 1,1-Dichloropropene	3.26	75	88708	6.26	ppb	97
31) Carbon Tetrachloride	3.16	117	136532	9.58	ppb	98
32) Benzene*	3.40	78	169003	5.38	ppb	# 86
33) Dibromomethane	3.97	93	36389	7.54	ppb	97
34) 1,2-Dichloropropane	4.03	63	46972m	5.16	ppb	
35) Trichloroethene*	3.71	95	66095	7.31	ppb	
36) Bromodichloromethane	4.05	83	99036	8.13	ppb	100
37) 2-Chloroethyl-vinyl ether	4.39	63	59197	30.06	ppb	96
38) cis-1,3-Dichloropropene	4.44	75	71701	5.85	ppb	# 53
39) 4-Methyl-2-Pentanone (MIBK)	4.84	43	80578	14.29	ppb	# 97
40) trans-1,3-Dichloropene	4.87	75	69842	7.35	ppb	# 69
41) 1,1,2-Trichloroethane	4.98	83	28427	6.36	ppb	95
43) Toluene*	4.60	91	209702	6.37	ppb	# 94
44) Ethyl Methacrylate	4.96	69	4761m	4.08	ppb	
45) 1,3-Dichloropropane	5.18	76	58803	6.45	ppb	96
46) 2-Hexanone	5.43	43	54294	14.05	ppb	# 87
48) Dibromochloromethane	5.12	129	43692	7.27	ppb	98
49) 1,2-Dibromoethane (EDB)	5.30	107	33555	6.19	ppb	# 94

(#) = qualifier out of range (m) = manual integration  
 0201002.D 011820RC.M Mon Jan 20 09:10:21 2020

GARY

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0201002.D  
 Acq On : 18 Jan 2020 8:16 am  
 Sample : 5ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:18 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 122319RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\122319RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Tue Dec 24 10:43:39 2019  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	39005	6.45	ppb	93
51) 1,1,1,2-Tetrachloroethane*	5.71	131	40013	6.42	ppb #	52
52) Chlorobenzene*	5.68	112	123163m	5.88	ppb	
53) Ethyl Benzene*	5.68	91	285628	6.32	ppb #	78
54) m,p-Xylene	5.79	91	450611	12.95	ppb	94
55) o-Xylene*	6.13	106	71371m	5.20	ppb	
56) Bromoform	6.19	173	20670	8.72	ppb #	92
57) Styrene	6.17	104	107251m	5.28	ppb	
58) 1,1,2,2-Tetrachloroethane	6.76	85	24922	6.16	ppb	87
59) trans-1,4-Dichloro-2-buten	6.92	53	15310	8.74	ppb	94
60) 1,2,3-Trichloropropane	6.89	75	36474m	4.67	ppb	
61) Isopropylbenzene	6.37	105	245778m	5.93	ppb	
63) Bromobenzene	6.71	156	31922m	5.55	ppb	
64) N-Propylbenzene*	6.71	91	340042m	6.01	ppb	
65) 2-Chlorotoluene	6.86	91	224894	6.49	ppb	94
66) 4-Chlorotoluene	7.00	126	41715m	5.86	ppb	
68) 1,3,5-Trimethylbenzene	6.87	105	209941	6.86	ppb	93
69) tert-butylbenzene	7.14	119	190185m	6.75	ppb	
70) 1,2,4-Trimethylbenzene	7.19	105	211440m	6.65	ppb	
71) sec-Butylbenzene	7.30	105	283021m	6.62	ppb	
72) 1,3-Dichlorobenzene	7.50	146	70407m	6.53	ppb	
73) 1,4-Dichlorobenzene	7.57	148	52870m	7.84	ppb	
74) p-Isopropyltoluene	7.42	119	205256m	6.68	ppb	
75) 1,2-Dichlorobenzene	7.94	146	61076m	6.74	ppb	
76) N-Butylbenzene	7.79	91	263021m	6.68	ppb	
77) 1,2-Dibromo-3-chloropropan	8.66	155	2284m	5.89	ppb	
78) 1,2,4-Trichlorobenzene	9.30	180	44737m	8.21	ppb	
79) Naphthalene	9.61	128	57099m	5.60	ppb	
80) Hexachloro-1,3-butadiene	9.27	225	25924m	8.56	ppb	
81) 1,2,3-Trichlorobenzene	9.79	180	34766	7.99	ppb	97
82) 1-Methylnaphthalene	10.76	142	20107m	5.13	ppb	
83) 2-Methylnaphthalene	10.62	142	19336m	4.06	ppb	



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0301003.D  
 Acq On : 18 Jan 2020 8:32 am  
 Sample : 10ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:12 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	403642	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.66	117	316385	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	138357	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	180080	61.61	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	123.22%
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	264001	69.54	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	139.08%#
42) Toluene-d8 (SURR)	4.57	98	435987	55.13	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	110.26%
62) 4-Bromofluorobenzene (SURR)	6.61	95	227931	58.39	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	116.78%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	157340	11.19	ppb	98
3) Chloromethane	1.42	50	114631	12.26	ppb	96
4) Vinyl Chloride*	1.45	62	120183	11.45	ppb	92
5) Bromomethane	1.63	94	159223	15.59	ppb	96
6) Chloroethane	1.69	64	93286	12.28	ppb	98
7) Acrolein	2.40	56	104503	12.22	ppb	89
8) Trichlorofluoromethane	1.76	101	383205	13.77	ppb	98
9) Acetone	2.32	43	102739	50.60	ppb	# 84
10) 1,1-Dichloroethene*	2.02	61	298452	13.84	ppb	98
11) Acrylonitrile	2.67	53	327520	13.47	ppb	98
12) Iodomethane	2.10	142	79315	8.20	ppb	94
13) Methylene Chloride	2.30	84	170987	17.46	ppb	98
14) Carbon Disulfide	2.05	76	185982	12.17	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	114196	13.08	ppb	95
16) Methyl-tert-butyl ether* (	2.42	73	266321	13.65	ppb	94
17) 1,1-Dichloroethane*	2.68	63	338219	13.53	ppb	98
18) Vinyl Acetate	2.78	43	269153	16.41	ppb	100
19) N-Hexane	2.40	57	188601	11.73	ppb	97
20) N-Butanol	2.77	57	110162	14.32	ppb	96
21) 2-Butanone (MEK)	3.24	43	77503	32.62	ppb	# 100
22) cis-1,2-Dichloroethene*	2.95	61	216066	12.72	ppb	97
23) Bromochloromethane	3.06	128	31162	11.48	ppb	96
24) Chloroform*	3.08	83	271256	12.27	ppb	98
25) 2,2-Dichloropropane	3.01	77	285563	12.74	ppb	98
28) 1,2-Dichloroethane	3.51	62	221371	13.40	ppb	96
29) 1,1,1-Trichloroethane*	3.20	97	266901	11.86	ppb	98
30) 1,1-Dichloropropene	3.26	75	171678	11.05	ppb	100
31) Carbon Tetrachloride	3.17	117	253140	12.81	ppb	91
32) Benzene*	3.40	78	309069	10.14	ppb	98
33) Dibromomethane	3.97	93	63419	11.82	ppb	97
34) 1,2-Dichloropropane	4.03	63	85102	10.05	ppb	88
35) Trichloroethene*	3.72	95	115678	11.17	ppb	98
36) Bromodichloromethane	4.06	83	186843	12.19	ppb	98
37) 2-Chloroethyl-vinyl ether	4.39	63	109365	50.93	ppb	98
38) cis-1,3-Dichloropropene	4.45	75	142368	11.35	ppb	93
39) 4-Methyl-2-Pentanone (MIBK)	4.85	43	165340	28.09	ppb	97
40) trans-1,3-Dichloropene	4.87	75	133876	11.67	ppb	# 75
41) 1,1,2-Trichloroethane	4.99	83	50690	11.15	ppb	97
43) Toluene*	4.60	91	375294	10.98	ppb	99
44) Ethyl Methacrylate	4.96	69	8566	7.71	ppb	# 68
45) 1,3-Dichloropropane	5.19	76	101690	10.59	ppb	97
46) 2-Hexanone	5.43	43	108036	26.65	ppb	95
48) Dibromochloromethane	5.12	129	82770	11.75	ppb	98
49) 1,2-Dibromoethane (EDB)	5.30	107	61591	10.81	ppb	92

(#) = qualifier out of range (m) = manual integration  
 0301003.D 011820RC.M Mon Jan 20 09:10:27 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0301003.D  
 Acq On : 18 Jan 2020 8:32 am  
 Sample : 10ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:12 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	71607	10.93	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.72	131	80050	11.29	ppb	98
52) Chlorobenzene*	5.68	112	212544	9.83	ppb	95
53) Ethyl Benzene*	5.69	91	496889	10.58	ppb	93
54) m,p-Xylene	5.79	91	819012	22.78	ppb	99
55) o-Xylene	6.13	106	137073	9.90	ppb	97
56) Bromoform	6.20	173	34825	11.84	ppb	# 94
57) Styrene	6.17	104	203670	9.91	ppb	99
58) 1,1,2,2-Tetrachloroethane	6.77	85	45502	11.28	ppb	91
59) trans-1,4-Dichloro-2-butene	6.92	53	29678	12.93	ppb	93
60) 1,2,3-Trichloropropane	6.89	75	97712	11.34	ppb	# 95
61) Isopropylbenzene	6.37	105	452978	10.14	ppb	96
63) Bromobenzene	6.70	156	67466	10.74	ppb	99
64) N-Propylbenzene*	6.71	91	656203	11.14	ppb	100
65) 2-Chlorotoluene	6.85	91	430394	10.95	ppb	98
66) 4-Chlorotoluene	6.99	126	75498	10.11	ppb	95
68) 1,3,5-Trimethylbenzene	6.87	105	407745	10.26	ppb	99
69) tert-butylbenzene	7.14	119	344297	9.68	ppb	98
70) 1,2,4-Trimethylbenzene	7.20	105	388817	9.71	ppb	98
71) sec-Butylbenzene	7.29	105	545046	10.32	ppb	98
72) 1,3-Dichlorobenzene	7.50	146	127828	9.75	ppb	97
73) 1,4-Dichlorobenzene	7.57	148	82348	10.11	ppb	97
74) p-Isopropyltoluene	7.41	119	391864	9.97	ppb	99
75) 1,2-Dichlorobenzene	7.95	146	106792	9.55	ppb	95
76) N-Butylbenzene	7.79	91	462976	9.39	ppb	97
77) 1,2-Dibromo-3-chloropropane	8.67	155	4604	9.16	ppb	# 72
78) 1,2,4-Trichlorobenzene	9.31	180	76718	10.18	ppb	96
79) Naphthalene	9.61	128	115248	9.30	ppb	98
80) Hexachloro-1,3-butadiene	9.26	225	49312	11.13	ppb	98
81) 1,2,3-Trichlorobenzene	9.78	180	68131	11.21	ppb	96
82) 1-Methylnaphthalene	10.77	142	36797	7.71	ppb	96
83) 2-Methylnaphthalene	10.62	142	39222	6.85	ppb	94

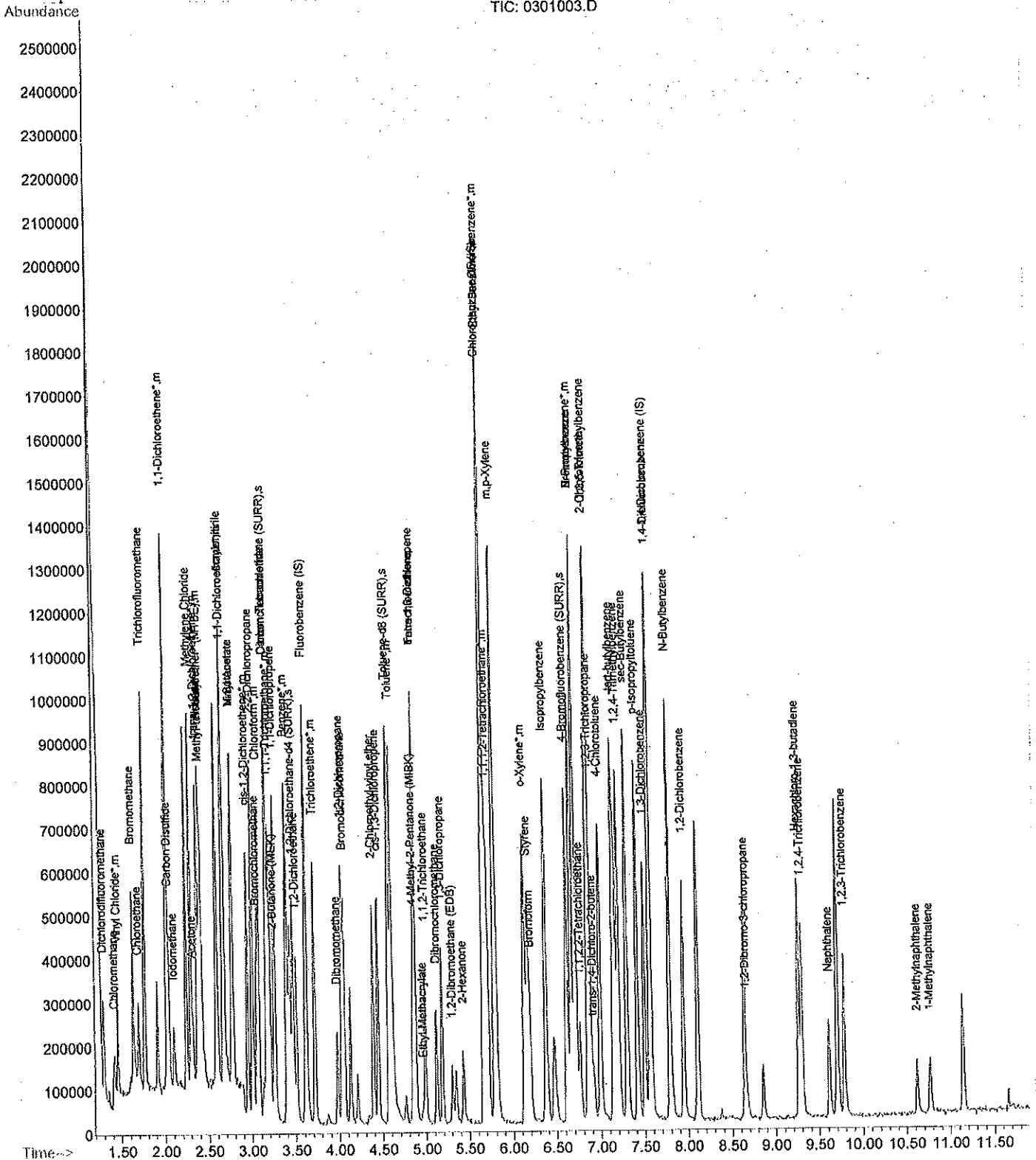
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0301003.D  
Acq On : 18 Jan 2020 8:32 am  
Sample : 10ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:12 2020

Vial: 3  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0401004.D  
 Acq On : 18 Jan 2020 8:49 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:27 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	487976	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	376223	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	151911	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	206059	62.96	ppb	0.00
Spiked Amount 50.000	Range	54 - 140	Recovery	=	125.92%	
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	313021	77.16	ppb	0.00
Spiked Amount 50.000	Range	54 - 138	Recovery	=	154.32%#	
42) Toluene-d8 (SURR)	4.57	98	504214	53.18	ppb	0.00
Spiked Amount 50.000	Range	61 - 127	Recovery	=	106.36%	
62) 4-Bromofluorobenzene (SURR)	6.62	95	258815	58.63	ppb	0.00
Spiked Amount 50.000	Range	69 - 131	Recovery	=	117.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	326669	20.24	ppb	99
3) Chloromethane	1.41	50	221296	20.38	ppb	96
4) Vinyl Chloride*	1.45	62	227271	18.97	ppb	90
5) Bromomethane	1.63	94	309098	29.54	ppb	98
6) Chloroethane	1.70	64	190197	21.77	ppb	97
7) Acrolein	2.40	56	193867	19.75	ppb	90
8) Trichlorofluoromethane	1.77	101	774558	25.76	ppb	100
9) Acetone	2.32	43	163357	75.42	ppb	99
10) 1,1-Dichloroethene*	2.02	61	588213	25.13	ppb	99
11) Acrylonitrile	2.67	53	642177	24.24	ppb	98
12) Iodomethane	2.10	142	212543	19.52	ppb	100
13) Methylene Chloride	2.30	84	265472	23.90	ppb	97
14) Carbon Disulfide	2.05	76	369094	21.48	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	216820	22.51	ppb	93
16) Methyl-tert-butyl ether* (	2.43	73	519088	24.31	ppb	# 20
17) 1,1-Dichloroethane*	2.68	63	678069	24.83	ppb	99
18) Vinyl Acetate	2.78	43	480495	27.23	ppb	100
19) N-Hexane	2.40	57	403213	21.94	ppb	93
20) N-Butanol	2.78	57	209628	24.92	ppb	99
21) 2-Butanone (MEK)	3.24	43	160654	59.38	ppb	# 96
22) cis-1,2-Dichloroethene*	2.95	61	394338	20.32	ppb	98
23) Bromochloromethane	3.06	128	60060	18.98	ppb	92
24) Chloroform*	3.08	83	523945	20.93	ppb	100
25) 2,2-Dichloropropane	3.01	77	548678	21.79	ppb	98
28) 1,2-Dichloroethane	3.51	62	432810	23.78	ppb	97
29) 1,1,1-Trichloroethane*	3.21	97	550999	22.04	ppb	97
30) 1,1-Dichloropropene	3.27	75	351962	19.67	ppb	99
31) Carbon Tetrachloride	3.17	117	492884	22.73	ppb	99
32) Benzene*	3.41	78	620639	17.19	ppb	98
33) Dibromomethane	3.98	93	131311	21.58	ppb	97
34) 1,2-Dichloropropane	4.03	63	185031	18.57	ppb	93
35) Trichloroethene*	3.72	95	242109	20.43	ppb	96
36) Bromodichloromethane	4.06	83	362343	20.98	ppb	100
37) 2-Chloroethyl-vinyl ether	4.39	63	226201	94.02	ppb	98
38) cis-1,3-Dichloropropene	4.45	75	281751	19.31	ppb	96
39) 4-Methyl-2-Pentanone (MIBK)	4.85	43	327851	47.52	ppb	98
40) trans-1,3-Dichloropene	4.87	75	270166	20.64	ppb	# 76
41) 1,1,2-Trichloroethane	4.99	83	103002	19.38	ppb	98
43) Toluene*	4.60	91	729101	18.16	ppb	98
44) Ethyl Methacrylate	4.96	69	22656	17.04	ppb	# 90
45) 1,3-Dichloropropane	5.19	76	218828	19.62	ppb	99
46) 2-Hexanone	5.43	43	223081	46.78	ppb	99
48) Dibromochloromethane	5.12	129	168558	21.25	ppb	97
49) 1,2-Dibromoethane (EDB)	5.30	107	133000	20.18	ppb	96

(#) = qualifier out of range (m) = manual integration  
 0401004.D 011820RC.M Mon Jan 20 09:10:32 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0401004.D  
 Acq On : 18 Jan 2020 8:49 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:27 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	140859	18.50	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.72	131	160370	19.80	ppb	99
52) Chlorobenzene*	5.68	112	431902	16.89	ppb	97
53) Ethyl Benzene*	5.69	91	1010936	18.27	ppb	96
54) m,p-Xylene	5.79	91	1569811	37.25	ppb	99
55) o-Xylene*	6.13	106	265779	16.08	ppb	# 96
56) Bromoform	6.21	173	70688	21.49	ppb	99
57) Styrene	6.17	104	402616	16.59	ppb	98
58) 1,1,2,2-Tetrachloroethane	6.77	85	91718	19.53	ppb	96
59) trans-1,4-Dichloro-2-buten	6.92	53	56209	22.00	ppb	99
60) 1,2,3-Trichloropropane	6.89	75	197899	19.99	ppb	# 96
61) Isopropylbenzene	6.37	105	951417	18.19	ppb	99
63) Bromobenzene	6.71	156	128275	17.49	ppb	97
64) N-Propylbenzene*	6.71	91	1292784	18.75	ppb	99
65) 2-Chlorotoluene	6.85	91	862844	19.06	ppb	98
66) 4-Chlorotoluene	6.99	126	151987	17.27	ppb	94
68) 1,3,5-Trimethylbenzene	6.87	105	817395	19.44	ppb	98
69) tert-butylbenzene	7.14	119	709337	18.70	ppb	98
70) 1,2,4-Trimethylbenzene	7.20	105	782091	18.28	ppb	98
71) sec-Butylbenzene	7.30	105	1099502	19.52	ppb	100
72) 1,3-Dichlorobenzene	7.50	146	259734	18.53	ppb	98
73) 1,4-Dichlorobenzene	7.57	148	159466	18.20	ppb	97
74) p-Isopropyltoluene	7.42	119	792740	19.00	ppb	99
75) 1,2-Dichlorobenzene	7.95	146	231948	19.57	ppb	99
76) N-Butylbenzene	7.79	91	1042006	19.85	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.68	155	9547	17.83	ppb	# 70
78) 1,2,4-Trichlorobenzene	9.30	180	162658	20.85	ppb	99
79) Naphthalene	9.61	128	243099	18.25	ppb	97
80) Hexachloro-1,3-butadiene	9.27	225	99228	21.72	ppb	94
81) 1,2,3-Trichlorobenzene	9.79	180	134000	21.31	ppb	94
82) 1-Methylnaphthalene	10.77	142	93427	18.10	ppb	99
83) 2-Methylnaphthalene	10.62	142	101047	16.14	ppb	98

(#) = qualifier out of range (m) = manual integration  
 0401004.D 011820RC.M Mon Jan 20 09:10:32 2020

GARY

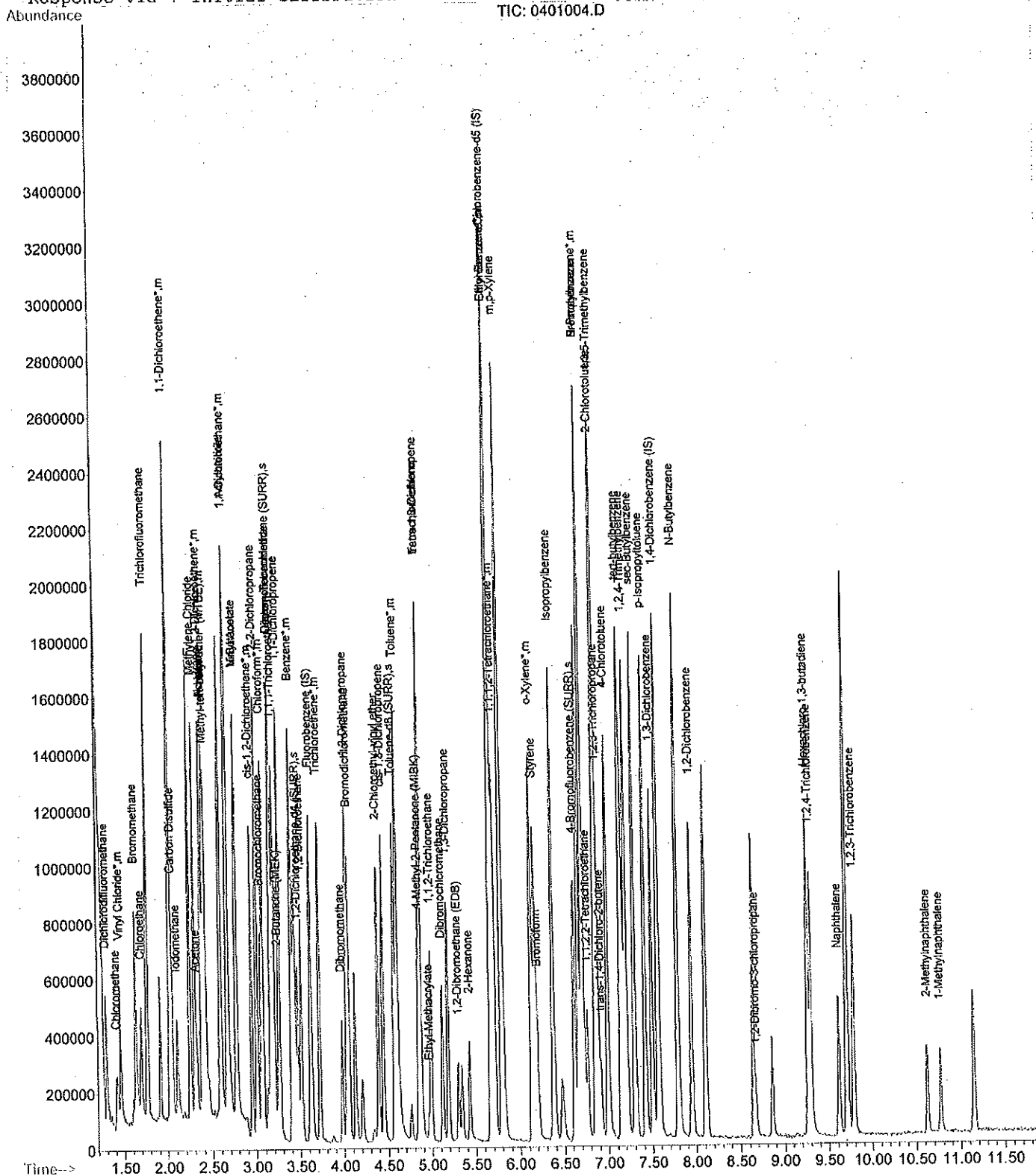
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0401004.D  
 Acq On : 18 Jan 2020 8:49 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0501005.D  
 Acq On : 18 Jan 2020 9:06 am  
 Sample : 50ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 18 9:19 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Sat Jan 18 09:19:36 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	547208	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	423067	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	179307	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	218254	66.96	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	133.92%		
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	312867	81.46	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	162.92%#		
42) Toluene-d8 (SURR)	4.57	98	562934	57.26	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	114.52%		
62) 4-Bromofluorobenzene (SURR)	6.61	95	292285	63.81	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery =	127.62%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1295259	81.49	ppb	100
3) Chloromethane	1.41	50	672632	60.86	ppb	100
4) Vinyl Chloride*	1.45	62	882040	77.60	ppb	100
5) Bromomethane	1.63	94	933116	121.37	ppb	100
6) Chloroethane	1.69	64	590492	70.28	ppb	100
7) Acrolein	2.40	56	671512	70.32	ppb	100
8) Trichlorofluoromethane	1.76	101	2490710	92.14	ppb	100
9) Acetone	2.32	43	462216	233.53	ppb	100
10) 1,1-Dichloroethene*	2.02	61	1760081	85.09	ppb	100
11) Acrylonitrile	2.67	53	1972767	86.99	ppb	100
12) Iodomethane	2.10	142	788897	86.73	ppb	100
13) Methylene Chloride	2.30	84	759539	71.34	ppb	100
14) Carbon Disulfide	2.05	76	1200253	75.55	ppb #	100
15) trans-1,2-Dichloroethene*	2.38	96	719816	83.99	ppb	100
16) Methyl-tert-butyl ether* (	2.42	73	1676807	90.35	ppb	100
17) 1,1-Dichloroethane*	2.68	63	2029512	85.79	ppb	100
18) Vinyl Acetate	2.78	43	1431441	93.97	ppb	100
19) N-Hexane	2.40	57	1269334	71.91	ppb	100
20) N-Butanol	2.77	57	638373	85.03	ppb	100
21) 2-Butanone (MEK)	3.24	43	459117	162.72	ppb #	100
22) cis-1,2-Dichloroethene*	2.95	61	1279916	65.60	ppb	100
23) Bromochloromethane	3.06	128	199565	63.99	ppb	100
24) Chloroform*	3.08	83	1690468	68.42	ppb	100
25) 2-2-Dichloropropane	3.00	77	1765754	72.83	ppb	100
28) 1,2-Dichloroethane	3.51	62	1405686	81.43	ppb	100
29) 1,1,1-Trichloroethane*	3.20	97	1779050	76.49	ppb	100
30) 1,1-Dichloropropene	3.26	75	1149974	64.38	ppb	100
31) Carbon Tetrachloride	3.17	117	1600844	81.99	ppb	100
32) Benzene*	3.40	78	2067037	54.13	ppb	100
33) Dibromomethane	3.98	93	413280	66.37	ppb	100
34) 1,2-Dichloropropane	4.03	63	578726	52.71	ppb	100
35) Trichloroethene*	3.72	95	775709	67.59	ppb	100
36) Bromodichloromethane	4.06	83	1190013	74.70	ppb	100
37) 2-Chloroethyl-vinyl ether	4.39	63	586206	242.49	ppb	100
38) cis-1,3-Dichloropropene	4.45	75	937186	60.83	ppb	100
39) 4-Methyl-2-Pentanone (MIBK	4.84	43	1158842	162.79	ppb	100
40) trans-1,3-Dichloropene	4.88	75	895924	72.58	ppb	100
41) 1,1,2-Trichloroethane	4.99	83	346719	62.06	ppb	100
43) Toluene*	4.61	91	2443685	60.03	ppb	100
44) Ethyl Methacrylate	4.96	69	79227	56.05	ppb #	100
45) 1,3-Dichloropropane	5.19	76	719931	63.09	ppb	100
46) 2-Hexanone	5.43	43	773759	159.56	ppb	100
48) Dibromochloromethane	5.12	129	557748	66.82	ppb	100
49) 1,2-Dibromoethane (EDB)	5.31	107	422208	57.75	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0501005.D 011820RC.M Mon Jan 20 09:10:38 2020

GARY

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0501005.D  
 Acq On : 18 Jan 2020 9:06 am  
 Sample : 50ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 18 9:19 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Sat Jan 18 09:19:36 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	471055	58.58	ppb	100
51) 1,1,1,2-Tetrachloroethane*	5.72	131	528493	62.27	ppb	100
52) Chlorobenzene*	5.68	112	1477742	53.33	ppb	100
53) Ethyl Benzene*	5.68	91	3526217	58.39	ppb	100
54) m,p-Xylene	5.80	91	5660124	121.27	ppb	100
55) o-Xylene*	6.13	106	967638	53.30	ppb	100
56) Bromoform	6.21	173	247674	72.89	ppb	100
57) Styrene	6.17	104	1447546	53.72	ppb	100
58) 1,1,2,2-Tetrachloroethane	6.77	85	294653	54.62	ppb	100
59) trans-1,4-Dichloro-2-buten	6.92	53	201242	78.50	ppb	100
60) 1,2,3-Trichloropropane	6.89	75	682754	63.31	ppb #	100
61) Isopropylbenzene	6.37	105	3390193	60.93	ppb	100
63) Bromobenzene	6.71	156	457431	58.81	ppb	100
64) N-Propylbenzene*	6.71	91	4627022	61.20	ppb	100
65) 2-Chlorotoluene	6.86	91	2998000	63.32	ppb	100
66) 4-Chlorotoluene	6.99	126	555784	58.45	ppb	100
68) 1,3,5-Trimethylbenzene	6.87	105	2911925	63.47	ppb	100
69) tert-butylbenzene	7.15	119	2517003	60.08	ppb	100
70) 1,2,4-Trimethylbenzene	7.21	105	2917759	61.69	ppb	100
71) sec-Butylbenzene	7.30	105	3935311	62.73	ppb	100
72) 1,3-Dichlorobenzene	7.50	146	911832	57.43	ppb	100
73) 1,4-Dichlorobenzene	7.58	148	570607	57.44	ppb	100
74) p-Isopropyltoluene	7.42	119	2885734	63.10	ppb	100
75) 1,2-Dichlorobenzene	7.95	146	779036	58.04	ppb	100
76) N-Butylbenzene	7.79	91	3699917	63.51	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.67	155	41127	68.26	ppb	100
78) 1,2,4-Trichlorobenzene	9.30	180	565289	67.78	ppb	100
79) Naphthalene	9.62	128	909697	59.47	ppb	100
80) Hexachloro-1,3-butadiene	9.27	225	340828	72.48	ppb	100
81) 1,2,3-Trichlorobenzene	9.79	180	469348	69.51	ppb	100
82) 1-Methylnaphthalene	10.77	142	362486	62.04	ppb	100
83) 2-Methylnaphthalene	10.62	142	439083	62.04	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0501005.D 011820RC.M Mon Jan 20 09:10:38 2020



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0601006.D  
 Acq On : 18 Jan 2020 9:22 am  
 Sample : 100ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:10 2020

Vial: 6  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Sat Jan 18 09:19:36 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	620554	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	484170	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.56	152	194503	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	238667	64.57	ppb	0.00
Spiked Amount 50.000	Range	54 - 140	Recovery	=	129.14%	
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	310194	71.21	ppb	0.00
Spiked Amount 50.000	Range	54 - 138	Recovery	=	142.42%#	
42) Toluene-d8 (SURR)	4.57	98	659714	59.18	ppb	0.00
Spiked Amount 50.000	Range	61 - 127	Recovery	=	118.36%	
62) 4-Bromofluorobenzene (SURR)	6.62	95	291494	55.61	ppb	0.00
Spiked Amount 50.000	Range	69 - 131	Recovery	=	111.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	2799383	155.30	ppb	100
3) Chloromethane	1.40	50	1517432	121.06	ppb	98
4) Vinyl Chloride*	1.45	62	1907735	148.01	ppb	99
5) Bromomethane	1.62	94	2122707	243.46	ppb	98
6) Chloroethane	1.69	64	1238615	129.99	ppb	99
7) Acrolein	2.40	56	1516844	140.06	ppb	96
8) Trichlorofluoromethane	1.76	101	5417633	176.73	ppb	99
9) Acetone	2.32	43	928457	413.65	ppb	99
10) 1,1-Dichloroethene*	2.02	61	4254641	181.38	ppb	99
11) Acrylonitrile	2.67	53	4459943	173.42	ppb	99
12) Iodomethane	2.10	142	1948415	188.88	ppb	97
13) Methylene Chloride	2.30	84	1706571	141.34	ppb	98
14) Carbon Disulfide	2.05	76	2853943	158.42	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	1611929	165.85	ppb	98
16) Methyl-tert-butyl ether* (	2.42	73	3676931	174.71	ppb	97
17) 1,1-Dichloroethane*	2.68	63	4587368	170.99	ppb	99
18) Vinyl Acetate	2.78	43	2907582	168.32	ppb	99
19) N-Hexane	2.40	57	2885082	144.12	ppb	100
20) N-Butanol	2.78	57	1369367	160.85	ppb	98
21) 2-Butanone (MEK)	3.24	43	954374	298.26	ppb	# 98
22) cis-1,2-Dichloroethene*	2.95	61	2854776	129.03	ppb	99
23) Bromochloromethane	3.06	128	431334	121.96	ppb	96
24) Chloroform*	3.08	83	3802562	135.71	ppb	99
25) 2-2-Dichloropropane	3.01	77	3980334	144.77	ppb	99
28) 1,2-Dichloroethane	3.51	62	3012388	153.87	ppb	98
29) 1,1,1-Trichloroethane*	3.21	97	4098336	155.39	ppb	97
30) 1,1-Dichloropropene	3.27	75	2683329	132.48	ppb	100
31) Carbon Tetrachloride	3.17	117	3691533	166.73	ppb	100
32) Benzene*	3.40	78	5024998	116.03	ppb	97
33) Dibromomethane	3.98	93	901797	127.71	ppb	97
34) 1,2-Dichloropropane	4.03	63	1297737	104.23	ppb	97
35) Trichloroethene*	3.72	95	1756229	134.95	ppb	98
36) Bromodichloromethane	4.06	83	2689067	148.84	ppb	97
37) 2-Chloroethyl-vinyl ether	4.39	63	1336620	487.56	ppb	99
38) cis-1,3-Dichloropropene	4.45	75	2089132	119.58	ppb	96
39) 4-Methyl-2-Pentanone (MIBK)	4.85	43	2405213	297.94	ppb	97
40) trans-1,3-Dichloropene	4.88	75	1994789	142.51	ppb	85
41) 1,1,2-Trichloroethane	4.99	83	713812	112.67	ppb	98
43) Toluene*	4.61	91	5833457	126.36	ppb	99
44) Ethyl Methacrylate	4.96	69	189072	117.96	ppb	# 91
45) 1,3-Dichloropropane	5.19	76	1550257	119.80	ppb	99
46) 2-Hexanone	5.43	43	1692405	307.75	ppb	100
48) Dibromochloromethane	5.13	129	1218857	127.60	ppb	99
49) 1,2-Dibromoethane (EDB)	5.31	107	889089	106.26	ppb	94

(#) = qualifier out of range (m) = manual integration  
 0601006.D 011820RC.M Mon Jan 20 09:10:43 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0601006.D  
 Acq On : 18 Jan 2020 9:22 am  
 Sample : 100ppb 8260 ical  
 Misc : 092319 VOC1 curve. 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:10 2020

Vial: 6  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Sat Jan 18 09:19:36 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	1111677	120.80	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.72	131	1175478	121.03	ppb	98
52) Chlorobenzene*	5.68	112	3564335	112.41	ppb	95
53) Ethyl Benzene*	5.69	91	8391694	121.42	ppb	97
54) m,p-Xylene	5.80	91	11802769	220.96	ppb	91
55) o-Xylene*	6.13	106	2187283	105.27	ppb	99
56) Bromoform	6.20	173	538089	138.38	ppb	99
57) Styrene	6.18	104	3345500	108.49	ppb	96
58) 1,1,2,2-Tetrachloroethane	6.77	85	615161	99.64	ppb	99
59) trans-1,4-Dichloro-2-buten	6.92	53	432389	147.38	ppb	98
60) 1,2,3-Trichloropropane	6.90	75	1181396	95.72	ppb #	84
61) Isopropylbenzene	6.37	105	8048343	126.39	ppb	98
63) Bromobenzene	6.71	156	1047448	117.67	ppb	97
64) N-Propylbenzene*	6.71	91	10369514	119.84	ppb	99
65) 2-Chlorotoluene	6.86	91	6884423	127.05	ppb	100
66) 4-Chlorotoluene	7.00	126	1230866	113.10	ppb	95
68) 1,3,5-Trimethylbenzene	6.87	105	6877707	138.20	ppb	99
69) tert-butylbenzene	7.15	119	5942323	130.76	ppb	97
70) 1,2,4-Trimethylbenzene	7.21	105	6749247	131.56	ppb	99
71) sec-Butylbenzene	7.30	105	9479966	139.31	ppb	99
72) 1,3-Dichlorobenzene	7.50	146	2101486	122.02	ppb	99
73) 1,4-Dichlorobenzene	7.58	148	1299810	120.62	ppb	99
74) p-Isopropyltoluene	7.42	119	7034970	141.81	ppb	96
75) 1,2-Dichlorobenzene	7.95	146	1772389	121.73	ppb	98
76) N-Butylbenzene	7.79	91	8537628	135.10	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.68	155	82949	126.92	ppb	94
78) 1,2,4-Trichlorobenzene	9.31	180	1223371	135.23	ppb	99
79) Naphthalene	9.62	128	1932476	116.46	ppb	99
80) Hexachloro-1,3-butadiene	9.27	225	759015	148.79	ppb	99
81) 1,2,3-Trichlorobenzene	9.79	180	972727	132.81	ppb	96
82) 1-Methylnaphthalene	10.77	142	799507	126.14	ppb	97
83) 2-Methylnaphthalene	10.62	142	969895	126.34	ppb	98

(#) = qualifier out of range (m) = manual integration  
 0601006.D 011820RC.M Mon Jan 20 09:10:43 2020



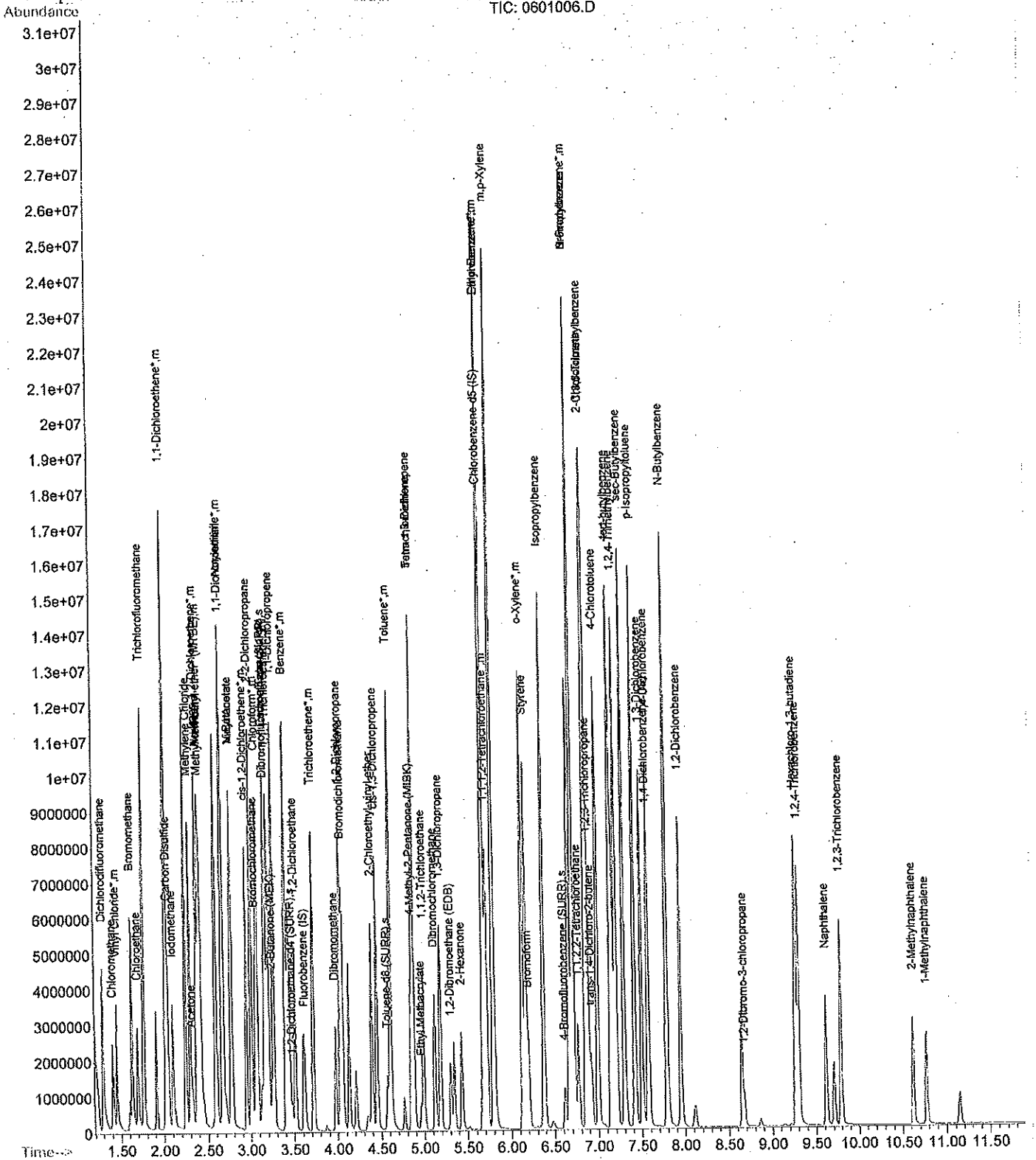
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0601006.D  
Acq On : 18 Jan 2020 9:22 am  
Sample : 100ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:10 2020

Vial: 6  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0701007.D  
 Acq On : 18 Jan 2020 9:39 am  
 Sample : 200ppb 8260 ical  
 Misc : 092319 VOCl curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 7  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:08 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	669222	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	563511	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.57	152	243355	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	272949	65.08	ppb	0.00
Spiked Amount 50.000	Range	54 - 140	Recovery =	130.16%		
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	320595	62.27	ppb	0.00
Spiked Amount 50.000	Range	54 - 138	Recovery =	124.54%		
42) Toluene-d8 (SURR)	4.58	98	719153	57.76	ppb	0.00
Spiked Amount 50.000	Range	61 - 127	Recovery =	115.52%		
62) 4-Bromofluorobenzene (SURR)	6.62	95	368196	58.81	ppb	0.00
Spiked Amount 50.000	Range	69 - 131	Recovery =	117.62%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	4301499	201.59	ppb	100
3) Chloromethane	1.41	50	3285664	232.98	ppb	93
4) Vinyl Chloride*	1.46	62	3808102	250.38	ppb	100
5) Bromomethane	1.63	94	3827165	314.61	ppb	98
6) Chloroethane	1.70	64	2597850	231.46	ppb	91
7) Acrolein	2.41	56	3057295	242.92	ppb	94
8) Trichlorofluoromethane	1.77	101	9276852	244.22	ppb	85
9) Acetone	2.33	43	1668207	604.51	ppb	97
10) 1,1-Dichloroethene*	2.03	61	7859847	269.98	ppb	94
11) Acrylonitrile	2.67	53	10255512	324.79	ppb	96
12) Iodomethane	2.11	142	4225956	326.45	ppb	96
13) Methylene Chloride	2.31	84	3308515	233.58	ppb	94
14) Carbon Disulfide	2.05	76	5872126	273.02	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	3427546	289.40	ppb	99
16) Methyl-tert-butyl ether* (	2.42	73	7376853	283.07	ppb	96
17) 1,1-Dichloroethane*	2.69	63	9491377	285.87	ppb	96
18) Vinyl Acetate	2.79	43	6088549	284.76	ppb	100
19) N-Hexane	2.41	57	5894024	250.23	ppb	99
20) N-Butanol	2.78	57	2833836	270.59	ppb	99
21) 2-Butanone (MEK)	3.25	43	1909612	534.10	ppb	# 99
22) cis-1,2-Dichloroethene*	2.95	61	6221116	247.43	ppb	98
23) Bromochloromethane	3.06	128	985214	243.58	ppb	85
24) Chloroform*	3.08	83	7997865	247.78	ppb	97
25) 2-2-Dichloropropane	3.02	77	8496154	265.83	ppb	99
28) 1,2-Dichloroethane	3.52	62	6022785	260.29	ppb	100
29) 1,1,1-Trichloroethane*	3.21	97	8958342	286.63	ppb	97
30) 1,1-Dichloropropene	3.27	75	5937684	257.79	ppb	100
31) Carbon Tetrachloride	3.17	117	8213950	305.75	ppb	99
32) Benzene*	3.41	78	10530082	220.60	ppb	95
33) Dibromomethane	3.98	93	1824983	228.58	ppb	97
34) 1,2-Dichloropropane	4.04	63	2764206	204.87	ppb	93
35) Trichloroethene*	3.73	95	3876726	257.37	ppb	97
36) Bromodichloromethane	4.07	83	5716731	264.07	ppb	98
37) 2-Chloroethyl-vinyl ether	4.40	63	3241502	1045.05	ppb	99
38) cis-1,3-Dichloropropene	4.45	75	4540018	234.68	ppb	91
39) 4-Methyl-2-Pentanone (MIBK)	4.85	43	4696019	514.43	ppb	98
40) trans-1,3-Dichloropene	4.88	75	4187053	252.53	ppb	92
41) 1,1,2-Trichloroethane	5.00	83	1479536	210.64	ppb	99
43) Toluene*	4.61	91	12058380	228.77	ppb	95
44) Ethyl Methacrylate	4.96	69	347092	193.03	ppb	# 99
45) 1,3-Dichloropropane	5.19	76	3142363	214.34	ppb	100
46) 2-Hexanone	5.44	43	3248835	517.33	ppb	98
48) Dibromochloromethane	5.12	129	2498904	215.23	ppb	99
49) 1,2-Dibromoethane (EDB)	5.31	107	1836009	186.21	ppb	97

(#) = qualifier out of range (m) = manual integration  
 0701007.D 011820RC.M Mon Jan 20 09:10:50 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0701007.D  
 Acq On : 18 Jan 2020 9:39 am  
 Sample : 200ppb 8260 ical  
 Misc : 092319 VOCl curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:11 2020

Vial: 7  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:11:08 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.88	166	2537316	229.82	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.73	131	2563384	219.47	ppb	98
52) Chlorobenzene*	5.68	112	7901801	210.02	ppb	92
53) Ethyl Benzene*	5.69	91	14050753	169.74	ppb	# 88
54) m,p-Xylene	5.80	91	17443811	271.65	ppb	# 58
55) o-Xylene*	6.14	106	4864972	199.64	ppb	85
56) Bromoform	6.21	173	1092147	227.84	ppb	100
57) Styrene	6.18	104	7201814	198.10	ppb	96
58) 1,1,2,2-Tetrachloroethane	6.78	85	1210139	168.72	ppb	99
59) trans-1,4-Dichloro-2-buten	6.92	53	818752	222.49	ppb	94
60) 1,2,3-Trichloropropane	6.89	75	2963651	202.51	ppb	# 94
61) Isopropylbenzene	6.38	105	13579907	177.24	ppb	90
63) Bromobenzene	6.71	156	2394094	224.12	ppb	90
64) N-Propylbenzene*	6.72	91	15097245	144.52	ppb	# 80
65) 2-Chlorotoluene	6.86	91	13388364	203.73	ppb	95
66) 4-Chlorotoluene	7.00	126	2680267	207.24	ppb	81
68) 1,3,5-Trimethylbenzene	6.88	105	12827123	193.90	ppb	90
69) tert-butylbenzene	7.15	119	12795294	213.30	ppb	96
70) 1,2,4-Trimethylbenzene	7.21	105	12463760	183.78	ppb	92
71) sec-Butylbenzene	7.30	105	13939681	155.27	ppb	# 89
72) 1,3-Dichlorobenzene	7.51	146	4531639	201.97	ppb	97
73) 1,4-Dichlorobenzene	7.58	148	2765075	197.25	ppb	98
74) p-Isopropyltoluene	7.42	119	12148262	183.75	ppb	91
75) 1,2-Dichlorobenzene	7.95	146	3823759	202.18	ppb	98
76) N-Butylbenzene	7.80	91	13304672	159.34	ppb	# 77
77) 1,2-Dibromo-3-chloropropan	8.68	155	157516	182.73	ppb	91
78) 1,2,4-Trichlorobenzene	9.31	180	2734268	225.74	ppb	98
79) Naphthalene	9.62	128	4032032	187.97	ppb	99
80) Hexachloro-1,3-butadiene	9.27	225	1612171	230.71	ppb	97
81) 1,2,3-Trichlorobenzene	9.79	180	2117198	216.27	ppb	98
82) 1-Methylnaphthalene	10.77	142	1602971	193.73	ppb	100
83) 2-Methylnaphthalene	10.62	142	2032471	202.68	ppb	99

(#) = qualifier out of range (m) = manual integration  
 0701007.D 011820RC.M Mon Jan 20 09:10:50 2020

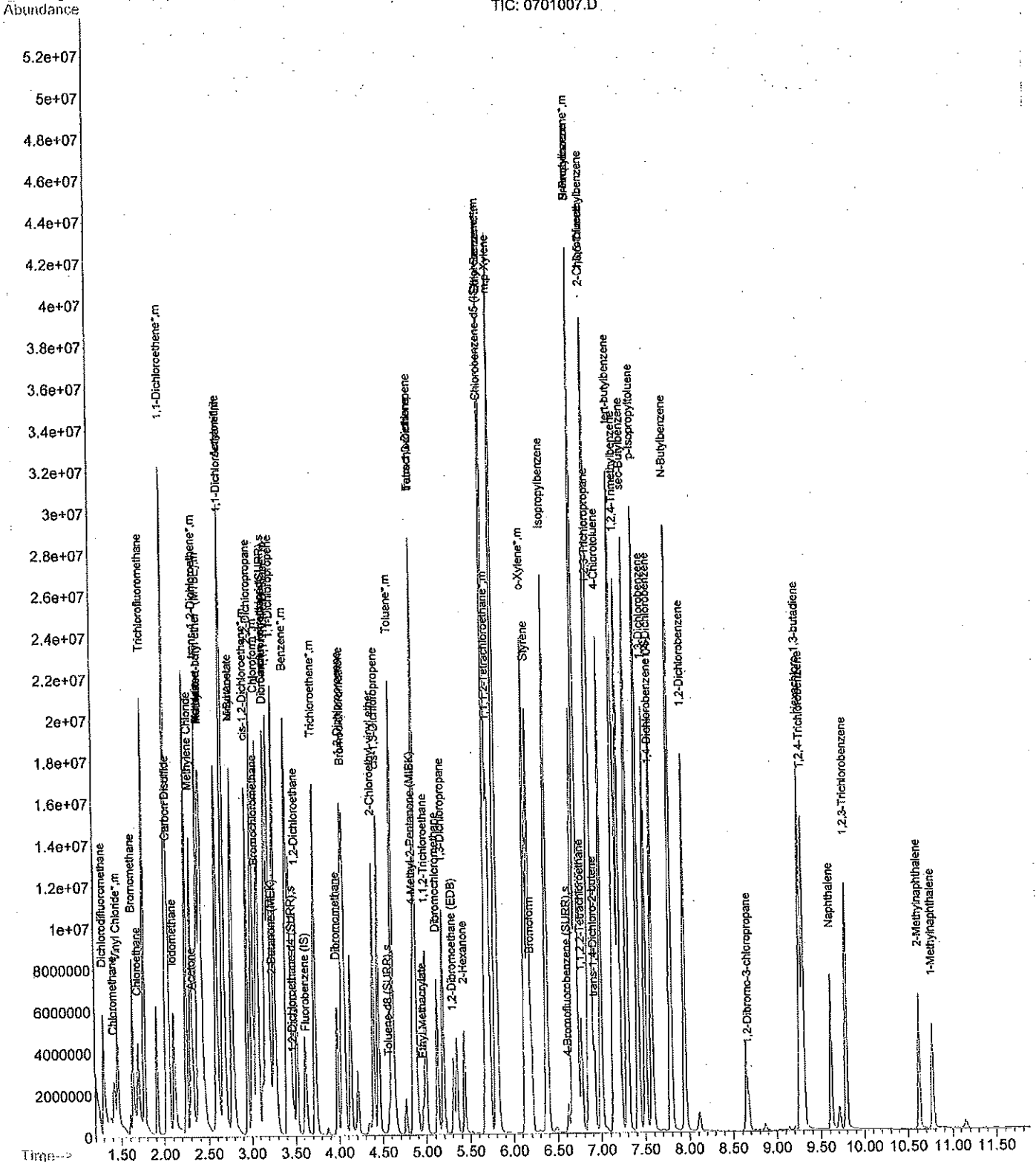
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0701007.D  
Acq On : 18 Jan 2020 9:39 am  
Sample : 200ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:11 2020

Vial: 7  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 Fluorobenzene (IS)	1.000	1.000	0.0	139	0.00
2 Dichlorodifluoromethane	1.984	1.982	0.1	117	0.00
3 Chloromethane	1.201	1.177	2.0	133	0.00
4 m Vinyl Chloride*	1.372	1.365	0.5	118	0.00
5 Bromomethane	1.634	1.365	16.5	111	0.00
6 Chloroethane	0.953	0.919	3.6	118	0.00
7 Acrolein	1.142	1.035	9.4	117	0.00
8 Trichlorofluoromethane	4.108	3.664	10.8	112	0.00
9 Acetone	0.303	0.267	11.9	110	0.00
10 m 1,1-Dichloroethene*	3.170	2.920	7.9	126	0.00
11 Acrylonitrile	3.549	3.229	9.0	125	0.00
12 Iodomethane	1.364	1.316	3.5	127	0.00
13 Methylene Chloride	1.333	1.213	9.0	122	0.00
14 Carbon Disulfide	2.105	1.931	8.3	123	0.00
15 m trans-1,2-Dichloroethene*	1.237	1.119	9.5	118	0.00
16 m Methyl-tert-butyl ether* (M	2.871	2.388	16.8	108	0.00
17 m 1,1-Dichloroethane*	3.665	3.404	7.1	128	0.00
18 Vinyl Acetate	2.200	2.034	7.5	108	0.00
19 N-Hexane	2.190	1.998	8.8	120	0.00
20 N-Butanol	1.125	0.988	12.2	118	0.00
21 2-Butanone (MEK)	0.322	0.269	16.5	111	0.00
22 m cis-1,2-Dichloroethene*	2.232	2.034	8.9	121	0.00
23 Bromochloromethane	0.339	0.334	1.5	128	0.00
24 m Chloroform*	2.972	2.715	8.6	122	0.00
25 2-2-Dichloropropane	3.066	2.739	10.7	118	0.00
26 s Dibromofluoromethane (SURR)	0.371	0.353	4.9	123	0.00
27 s 1,2-Dichloroethane-d4 (SURR)	0.518	0.460	11.2	112	0.00
28 1,2-Dichloroethane	2.413	2.060	14.6	112	0.00
29 m 1,1,1-Trichloroethane*	3.102	2.742	11.6	117	0.00
30 1,1-Dichloropropene	1.985	1.928	2.9	128	0.00
31 Carbon Tetrachloride	2.826	2.504	11.4	119	0.00
32 m Benzene*	3.609	3.586	0.6	132	0.00
33 Dibromomethane	0.708	0.626	11.6	115	0.00
34 1,2-Dichloropropane	0.990	0.997	-0.7	131	0.00
35 m Trichloroethene*	1.349	1.343	0.4	132	0.00
36 Bromodichloromethane	2.055	1.890	8.0	121	0.00
37 2-Chloroethyl-vinyl ether	0.248	0.228	8.1	119	0.00
38 cis-1,3-Dichloropropene	1.583	1.480	6.5	120	0.00
39 4-Methyl-2-Pentanone (MIBK)	0.725	0.675	6.9	111	0.00
40 trans-1,3-Dichloropene	1.505	1.405	6.6	119	0.00
41 1,1,2-Trichloroethane	0.568	0.538	5.3	118	0.00
42 s Toluene-d8 (SURR)	0.963	0.981	-1.9	133	0.00
43 m Toluene*	4.276	4.258	0.4	133	0.00
44 Ethyl Methacrylate	0.136	0.122	10.3	117	0.00
45 1,3-Dichloropropane	1.189	1.126	5.3	119	0.00
46 2-Hexanone	0.492	0.448	8.9	110	0.00
47 Chlorobenzene-d5 (IS)	1.000	1.000	0.0	140	0.00
48 Dibromochloromethane	1.241	1.066	14.1	114	0.00
49 1,2-Dibromoethane (EDB)	0.935	0.819	12.4	115	0.00
50 Tetrachloroethene	1.107	1.061	4.2	134	0.00
51 m 1,1,1,2-Tetrachloroethane*	1.192	1.095	8.1	123	0.00
52 m Chlorobenzene*	3.444	3.242	5.9	130	0.00
53 m Ethyl Benzene*	7.580	7.606	-0.3	128	0.00
54 m,p-Xylene	6.053	6.060	-0.1	127	0.00
55 m o-Xylene*	2.136	2.124	0.6	130	0.00
56 Bromoform	0.546	0.457	16.3	109	0.00
57 Styrene	3.206	3.048	4.9	125	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 1,1,2,2-Tetrachloroethane	0.660	0.539	18.3	109	0.00
59 trans-1,4-Dichloro-2-butene	0.432	0.347	19.7	102	0.00
60 1,2,3-Trichloropropane	1.388	1.258	9.4	109	0.00
61 Isopropylbenzene	6.963	7.284	-4.6	128	0.00
62 s 4-Bromofluorobenzene (SURR)	0.658	0.635	3.5	129	0.00
63 Bromobenzene	1.020	0.948	7.1	123	0.00
64 m N-Propylbenzene*	9.982	9.634	3.5	124	0.00
65 2-Chlorotoluene	6.588	5.851	11.2	116	0.00
66 4-Chlorotoluene	1.208	1.165	3.6	124	0.00
67 1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	136	0.00
68 1,3,5-Trimethylbenzene	15.265	14.239	6.7	119	0.00
69 tert-butylbenzene	13.587	13.045	4.0	126	0.00
70 1,2,4-Trimethylbenzene	14.962	14.329	4.2	120	0.00
71 sec-Butylbenzene	20.009	19.811	1.0	123	0.00
72 1,3-Dichlorobenzene	4.929	4.390	10.9	117	0.00
73 1,4-Dichlorobenzene	3.116	2.859	8.2	122	0.00
74 p-Isopropyltoluene	14.950	14.389	3.8	122	0.00
75 1,2-Dichlorobenzene	4.219	3.927	6.9	123	0.00
76 N-Butylbenzene	18.989	18.633	1.9	123	0.00
77 1,2-Dibromo-3-chloropropane	0.211	0.173	18.0	102	0.00
78 1,2,4-Trichlorobenzene	3.015	2.794	7.3	121	0.00
79 Naphthalene	4.470	4.678	-4.7	125	0.00
80 Hexachloro-1,3-butadiene	1.827	1.668	8.7	119	0.00
81 1,2,3-Trichlorobenzene	2.450	2.345	4.3	122	0.00
82 1-Methylnaphthalene	1.692	1.974	-16.7	133	0.00
83 2-Methylnaphthalene	2.189	2.420	-10.6	134	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:50 2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.63	96	761618	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.67	117	594010	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.57	152	243871	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.18	113	269116	47.67	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery =	95.34%	
27) 1,2-Dichloroethane-d4 (SUR)	3.48	65	350616	44.45	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery =	88.90%	
42) Toluene-d8 (SURR)	4.58	98	747160	50.94	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery =	101.88%	
62) 4-Bromofluorobenzene (SURR)	6.62	95	377206	48.29	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery =	96.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1509897	49.96	ppb	100
3) Chloromethane	1.40	50	896363	49.00	ppb	96
4) Vinyl Chloride*	1.45	62	1039691	49.75	ppb	100
5) Bromomethane	1.63	94	1039287	41.75	ppb	99
6) Chloroethane	1.69	64	699727	48.20	ppb	100
7) Acrolein	2.40	56	788233	45.32	ppb	95
8) Trichlorofluoromethane	1.76	101	2790511	44.59	ppb	99
9) Acetone	2.32	43	509090	110.44	ppb	99
10) 1,1-Dichloroethene*	2.02	61	2223976	46.06	ppb	99
11) Acrylonitrile	2.67	53	2459158	45.49	ppb	99
12) Iodomethane	2.10	142	1002382	48.26	ppb	93
13) Methylene Chloride	2.30	84	923665	45.48	ppb	96
14) Carbon Disulfide	2.05	76	1470789	45.88	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	852052	45.22	ppb	98
16) Methyl-tert-butyl ether* (	2.42	73	1818616	41.59	ppb	93
17) 1,1-Dichloroethane*	2.68	63	2592575	46.43	ppb	99
18) Vinyl Acetate	2.78	43	1549241	46.24	ppb	98
19) N-Hexane	2.40	57	1521718	45.62	ppb	99
20) N-Butanol	2.78	57	752594	43.92	ppb	# 97
21) 2-Butanone (MEK)	3.24	43	511756	104.22	ppb	# 98
22) cis-1,2-Dichloroethene*	2.95	61	1549479	45.58	ppb	96
23) Bromochloromethane	3.06	128	254637	49.26	ppb	89
24) Chloroform*	3.08	83	2068128	45.68	ppb	98
25) 2-2-Dichloropropane	3.01	77	2085942	44.66	ppb	98
28) 1,2-Dichloroethane	3.52	62	1568898	42.69	ppb	97
29) 1,1,1-Trichloroethane*	3.21	97	2088441	44.20	ppb	99
30) 1,1-Dichloropropene	3.26	75	1468193	48.57	ppb	98
31) Carbon Tetrachloride	3.17	117	1907065	44.31	ppb	99
32) Benzene*	3.40	78	2731252	49.68	ppb	96
33) Dibromomethane	3.98	93	476491	44.16	ppb	98
34) 1,2-Dichloropropane	4.03	63	758978	50.31	ppb	89
35) Trichloroethene*	3.72	95	1022943	49.78	ppb	97
36) Bromodichloromethane	4.06	83	1439529	45.99	ppb	97
37) 2-Chloroethyl-vinyl ether	4.39	63	695041	184.35	ppb	99
38) cis-1,3-Dichloropropene	4.45	75	1127035	46.73	ppb	91
39) 4-Methyl-2-Pentanone (MIBK)	4.85	43	1285909	116.41	ppb	97
40) trans-1,3-Dichloropene	4.88	75	1069869	46.66	ppb	90
41) 1,1,2-Trichloroethane	5.00	83	409379	47.35	ppb	98
43) Toluene*	4.61	91	3243313	49.80	ppb	99
44) Ethyl Methacrylate	4.96	69	92637	44.85	ppb	# 99
45) 1,3-Dichloropropane	5.19	76	857795	47.35	ppb	99
46) 2-Hexanone	5.44	43	852947	113.78	ppb	97
48) Dibromochloromethane	5.13	129	633185	42.95	ppb	98
49) 1,2-Dibromoethane (EDB)	5.31	107	486749	43.81	ppb	95

(#) = qualifier out of range (m) = manual integration  
 0801008.D 011820RC.M Mon Jan 20 09:10:59 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
 Acq On : 18 Jan 2020 9:56 am  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Jan 20 8:50 2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R:T	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.87	166	630103	47.90	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.72	131	650472	45.94	ppb	99
52) Chlorobenzene*	5.69	112	1925820	47.07	ppb	96
53) Ethyl Benzene*	5.69	91	4518161	50.17	ppb	96
54) m,p-Xylene	5.80	91	7199211	100.11	ppb	98
55) o-Xylene*	6.14	106	1261599	49.73	ppb	93
56) Bromoform	6.21	173	271197	41.81	ppb	98
57) Styrene	6.17	104	1810293	47.53	ppb	95
58) 1,1,2,2-Tetrachloroethane	6.77	85	320039	40.85	ppb	98
59) trans-1,4-Dichloro-2-buten	6.92	53	206096	40.11	ppb	98
60) 1,2,3-Trichloropropane	6.90	75	747295	45.33	ppb	# 98
61) Isopropylbenzene	6.38	105	4326676	52.31	ppb	98
63) Bromobenzene	6.71	156	563398	46.52	ppb	92
64) N-Propylbenzene*	6.72	91	5722699	48.26	ppb	100
65) 2-Chlorotoluene	6.86	91	3475659	44.41	ppb	99
66) 4-Chlorotoluene	7.00	126	691823	48.20	ppb	91
68) 1,3,5-Trimethylbenzene	6.87	105	3472569	46.64	ppb	97
69) tert-butylbenzene	7.15	119	3181333	48.01	ppb	96
70) 1,2,4-Trimethylbenzene	7.21	105	3494512	47.89	ppb	98
71) sec-Butylbenzene	7.30	105	4831210	49.50	ppb	100
72) 1,3-Dichlorobenzene	7.50	146	1070672	44.53	ppb	99
73) 1,4-Dichlorobenzene	7.58	148	697264	45.88	ppb	97
74) p-Isopropyltoluene	7.42	119	3508997	48.12	ppb	97
75) 1,2-Dichlorobenzene	7.96	146	957747	46.55	ppb	98
76) N-Butylbenzene	7.79	91	4544164	49.06	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.68	155	42117	40.95	ppb	97
78) 1,2,4-Trichlorobenzene	9.31	180	681279	46.33	ppb	100
79) Naphthalene	9.62	128	1140934	52.33	ppb	99
80) Hexachloro-1,3-butadiene	9.27	225	406826	45.66	ppb	97
81) 1,2,3-Trichlorobenzene	9.79	180	571952	47.86	ppb	100
82) 1-Methylnaphthalene	10.78	142	481337	58.32	ppb	97
83) 2-Methylnaphthalene	10.63	142	590272	55.30	ppb	98

(#) = qualifier out of range (m) = manual integration  
 0801008.D 011820RC.M Mon Jan 20 09:10:59 2020

GARY



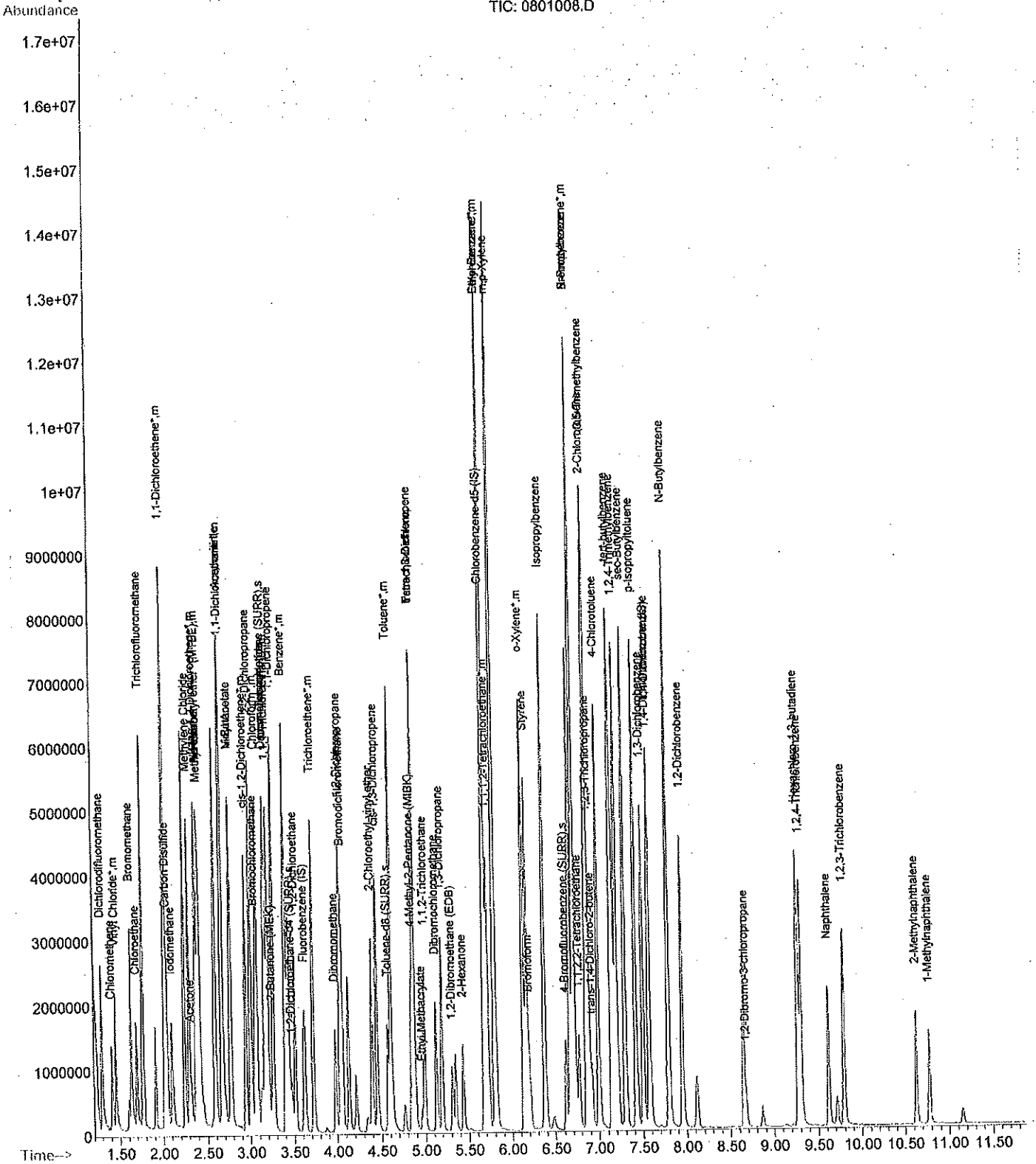
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011820C\0801008.D  
Acq On : 18 Jan 2020 9:56 am  
Sample : 50ppb ICV 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Jan 20 8:50 2020

Vial: 8  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





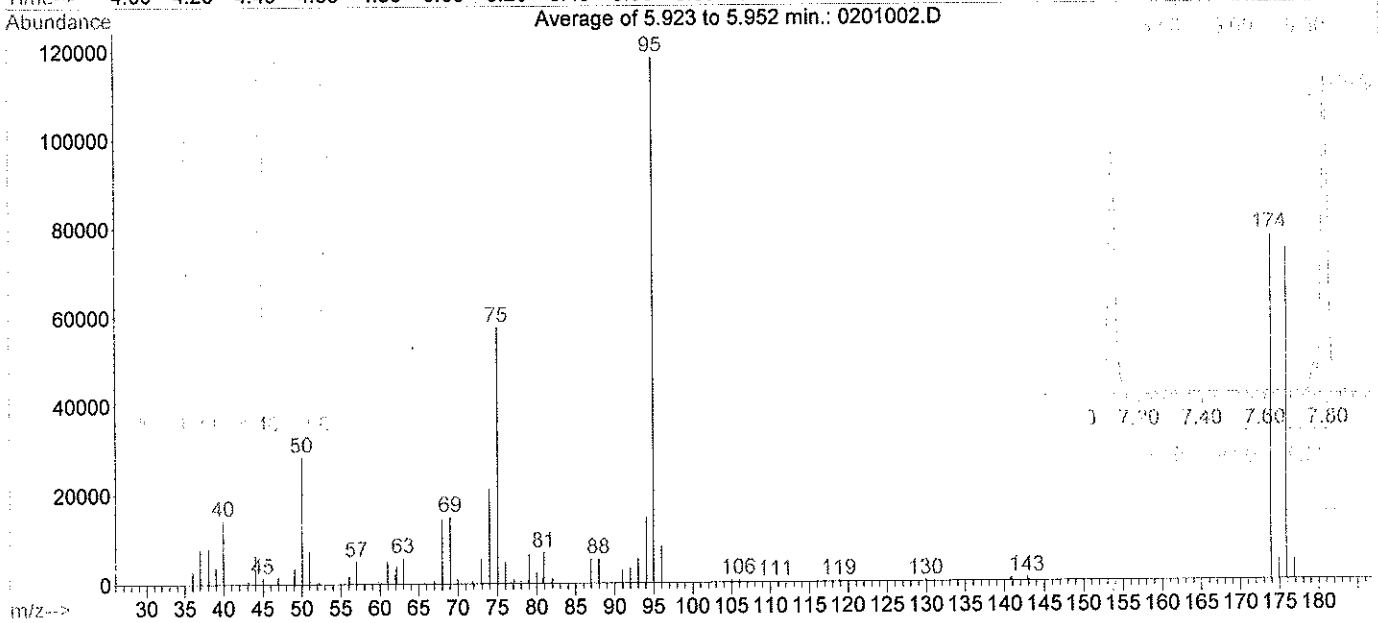
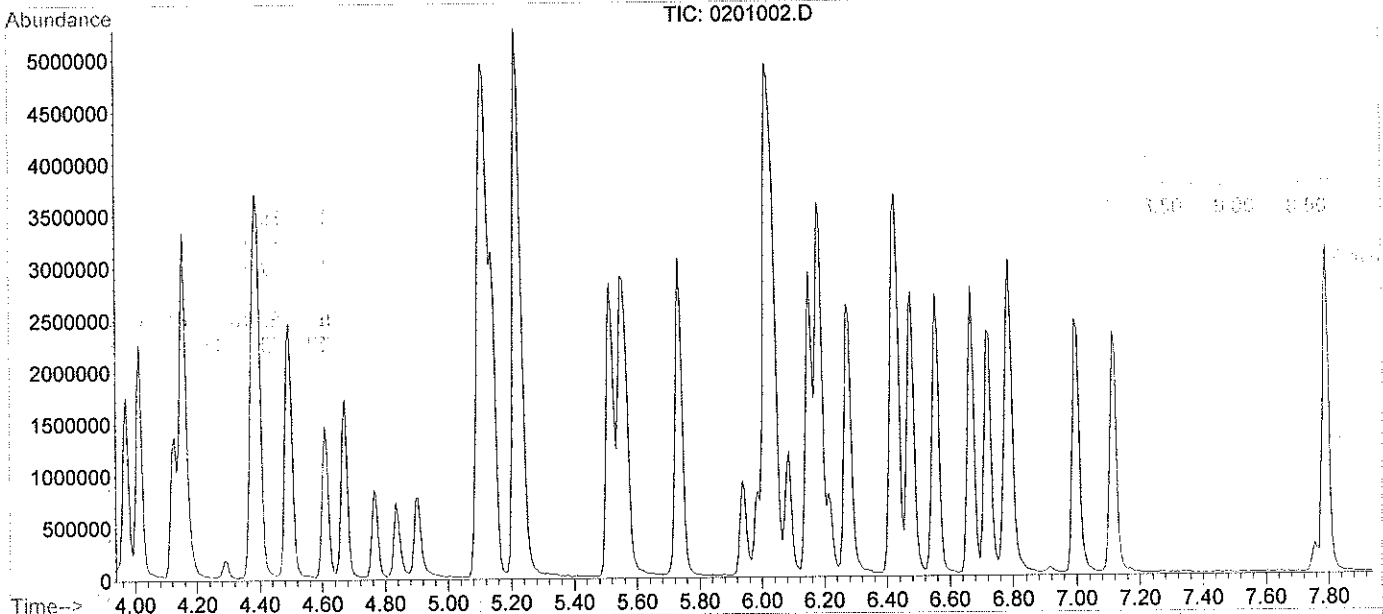
ENVision Laboratories, Inc.  
1439 Sadlier Circle West Drive  
Indianapolis, IN 46239  
Tel: 317.351.8632  
Fax: 317.351.8639  
[www.envisionlaboratories.com](http://www.envisionlaboratories.com)

## 8260 VOC Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Data File : C:\HPCHEM\1\DATA\022020\0201002.D  
 Acq On : 20 Feb 2020 8:11 am  
 Sample : BFB/CCV 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :

Vial: 2  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00



Spectrum Information: Average of 5.923 to 5.952 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	28442	PASS
75	95	30	60	48.7	57640	PASS
95	95	100	100	100.0	118362	PASS
96	95	5	9	6.8	8102	PASS
173	174	0.00	2	0.4	312	PASS
174	95	50	100	65.4	77467	PASS
175	174	5	9	5.7	4443	PASS
176	174	95	101	96.0	74395	PASS
177	176	5	9	6.2	4605	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022020\0201002.D  
 Acq On : 20 Feb 2020 8:11 am  
 Sample : BFB/CCV 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 Fluorobenzene (IS)	1.000	1.000	0.0	106	-0.02
2 Dichlorodifluoromethane	1.836	1.782	2.9	95	0.00
3 Chloromethane	1.722	1.661	3.5	97	0.00
4 Vinyl Chloride (CCC)	1.483	1.449	2.3	99	0.00
5 Bromomethane	0.960	0.916	4.6	96	0.00
6 Chloroethane	0.499	0.464	7.0	91	0.00
7 Acrolein	0.491	0.430	12.4	98	0.00
8 Trichlorofluoromethane	1.272	1.256	1.3	100	0.00
9 Acetone	0.091	0.084	7.7	91	-0.01
10 1,1-Dichloroethene	1.201	1.115	7.2	96	0.00
11 Acrylonitrile	1.046	1.054	-0.8	99	-0.01
12 Iodomethane	1.148	1.190	-3.7	103	0.00
13 Methylene Chloride	1.165	1.131	2.9	102	-0.01
14 Carbon Disulfide	2.570	2.410	6.2	97	0.00
15 trans-1,2-Dichloroethene	0.657	0.615	6.4	98	-0.01
16 Methyl-tert-butyl ether (MT)	0.731	0.810	-10.8	117	-0.01
17 1,1-Dichloroethane	1.298	1.146	11.7	89	-0.01
18 Vinyl Acetate	1.155	1.090	5.6	99	-0.01
19 n-Hexane	0.743	0.777	-4.6	109	0.00
20 n-Butanol	0.263	0.277	-5.3	112	-0.01
21 2-Butanone (MEK)	0.175	0.156	10.9	98	-0.01
22 cis-1,2-Dichloroethene	0.957	0.851	11.1	93	-0.01
23 Bromochloromethane	0.295	0.287	2.7	97	-0.01
24 Chloroform	1.358	1.191	12.3	91	-0.01
25 2,2-Dichloropropane	0.956	0.936	2.1	99	-0.01
26 S Dibromofluoromethane (SURRE)	0.355	0.339	4.5	100	-0.01
27 S 1,2-Dichloroethane-d4 (SURRE)	0.443	0.474	-7.0	115	-0.01
28 1,2-Dichloroethane	1.173	1.179	-0.5	103	-0.01
29 1,1,1-Trichloroethane	1.063	0.938	11.8	93	-0.01
30 1,1-Dichloropropene	1.009	0.953	5.6	99	-0.01
31 Carbon Tetrachloride	1.026	0.947	7.7	94	-0.01
32 Benzene	2.590	2.733	-5.5	110	-0.01
33 Dibromomethane	0.515	0.557	-8.2	116	-0.01
34 1,2-Dichloropropane	0.766	0.855	-11.6	112	-0.01
35 Trichloroethene	0.758	0.809	-6.7	108	-0.01
36 Bromodichloromethane	1.205	1.216	-0.9	103	-0.01
37 2-Chloroethyl-vinyl-ether	0.190	0.170	10.5	106	-0.01
38 cis-1,3-Dichloropropene	1.126	1.183	-5.1	111	-0.01
39 4-Methyl-2-Pentanone (MIBK)	0.467	0.442	5.4	111	-0.02
40 trans-1,3-Dichloropropene	1.049	1.005	4.2	105	-0.01
41 1,1,2-Trichloroethane	0.481	0.518	-7.7	112	-0.01
42 S Toluene-d8 (SURRE)	0.872	1.011	-15.9	112	-0.01
43 Toluene	2.485	2.619	-5.4	110	-0.01
44 Ethyl Methacrylate	0.572	0.589	-3.0	114	-0.01
45 1,3-Dichloropropane	0.866	0.997	-15.1	121	-0.01
46 2-Hexanone	0.302	0.324	-7.3	129	-0.02
47 Chlorobenzene-d5 (IS)	1.000	1.000	0.0	116	-0.01
48 Dibromochloromethane	1.122	1.046	6.8	108	-0.01
49 1,2-Dibromoethane (EDB)	0.867	0.827	4.6	111	-0.01
50 Tetrachloroethene (PCE)	0.866	0.814	6.0	111	-0.01
51 1,1,1,2-Tetrachloroethane	0.980	0.899	8.3	108	-0.01
52 Chlorobenzene	2.598	2.465	5.1	111	-0.01
53 Ethylbenzene	4.261	4.134	3.0	111	-0.01
54 m,p-Xylene	3.268	3.125	4.4	107	-0.01
55 o-Xylene	3.311	3.289	0.7	121	-0.02
56 Bromoform	0.520	0.548	-5.4	124	-0.01
57 Styrene	2.357	2.201	6.6	103	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022020\0201002.D  
 Acq On : 20 Feb 2020 8:11 am  
 Sample : BFB/CCV 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 1,1,2,2-Tetrachloroethane	0.928	0.927	0.1	125	-0.01
59 trans-1,4-Dichloro-2-butene	0.249	0.228	8.4	103	-0.02
60 1,2,3-Trichloropropane	0.748	0.736	1.6	110	-0.01
61 Isopropylbenzene	3.311	3.463	-4.6	113	-0.01
62 S 4-Bromofluorobenzene (SURR)	0.510	0.546	-7.1	120	-0.01
63 Bromobenzene	0.976	0.964	1.2	115	-0.01
64 n-Propylbenzene	4.736	4.580	3.3	111	-0.01
65 2-Chlorotoluene	3.212	3.187	0.8	112	-0.01
66 4-Chlorotoluene	0.868	0.877	-1.0	108	-0.01
67 1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	115	-0.01
68 1,3,5-Trimethylbenzene	3.597	3.174	11.8	107	-0.01
69 tert-Butylbenzene	3.373	2.985	11.5	105	-0.01
70 1,2,4-Trimethylbenzene	3.431	3.101	9.6	110	-0.01
71 sec-Butylbenzene	4.356	3.991	8.4	112	-0.01
72 1,3-Dichlorobenzene	1.996	1.839	7.9	117	-0.01
73 1,4-Dichlorobenzene	1.327	1.233	7.1	118	-0.01
74 p-Isopropyltoluene	2.986	3.042	-1.9	117	-0.01
75 1,2-Dichlorobenzene	1.874	1.727	7.8	115	-0.01
76 n-Butylbenzene	3.234	3.175	1.8	111	-0.01
77 1,2-Dibromo-3-chloropropane	0.064	0.056	12.5	92	-0.02
78 1,2,4-Trichlorobenzene	0.718	0.845	-17.7	133	-0.02
79 Naphthalene	1.022	1.074	-5.1	122	-0.02
80 Hexachloro-1,3-butadiene	0.305	0.327	-7.2	128	-0.01
81 1,2,3-Trichlorobenzene	0.571	0.583	-2.1	125	-0.01
82 1-Methylnapthalene	0.136	0.155	-14.0	114	-0.02
83 2-Methylnapthalene	0.117	0.103	12.0	96	-0.02

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020\0201002.D  
 Acq On : 20 Feb 2020 8:11 am  
 Sample : BFB/CCV 50PPB  
 Misc : QC

Vial: 2  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 20 9:29 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.26	96	6948284	50.00	ug/L	-0.02
47) Chlorobenzene-d5 (IS)	5.10	117	5227954	50.00	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4 (IS)	6.78	150	4333331	50.00	ug/L	-0.01
<b>System Monitoring Compounds</b>						
26) Dibromodifluoromethane (SURR)	2.86	113	2354843	47.67	ug/L	-0.01
Spiked Amount 50.000	Range 74 - 132		Recovery =	95.34%		
27) 1,2-Dichloroethane-d4 (SUR)	3.13	65	3291773	53.50	ug/L	-0.01
Spiked Amount 50.000	Range 77 - 134		Recovery =	107.00%		
42) Toluene-d8 (SURR)	4.13	98	7026499	57.98	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 130		Recovery =	115.96%		
62) 4-Bromofluorobenzene (SURR)	5.94	95	2856749	53.56	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 133		Recovery =	107.12%		
<b>Target Compounds</b>						
2) Dichlorodifluoromethane	1.02	85	12379660	48.52	ug/L	
3) Chloromethane	1.15	50	11541050	48.24	ug/L #	97
4) Vinyl Chloride (CCC)	1.19	62	10069458	48.88	ug/L	98
5) Bromomethane	1.37	94	6364206	47.70	ug/L	99
6) Chloroethane	1.44	64	3227008	46.52	ug/L	
7) Acrolein	2.15	56	2985333	43.79	ug/L #	98
8) Trichlorofluoromethane	1.52	101	8724328	49.36	ug/L	
9) Acetone	2.06	43	1463274	115.26	ug/L #	95
10) 1,1-Dichloroethene	1.76	61	7746018	46.40	ug/L	
11) Acrylonitrile	2.39	53	7323025	50.36	ug/L	
12) Iodomethane	1.84	142	8270466	51.83	ug/L #	96
13) Methylene Chloride	2.03	49	7855079	48.50	ug/L	
14) Carbon Disulfide	1.78	76	16744351	46.89	ug/L	
15) trans-1,2-Dichloroethene	2.11	96	4272441	46.82	ug/L	96
16) Methyl-tert-butyl ether (M)	2.15	73	5624819	55.40	ug/L	
17) 1,1-Dichloroethane	2.40	63	7961893	44.15	ug/L	98
18) Vinyl Acetate	2.50	43	7573125	47.18	ug/L	98
19) n-Hexane	2.15	57	5398647	52.30	ug/L	93
20) n-Butanol	2.49	57	1924649	52.72	ug/L	
21) 2-Butanone (MEK)	2.92	43	2717663	111.89	ug/L	98
22) cis-1,2-Dichloroethene	2.65	61	5914601	44.48	ug/L	96
23) Bromochloromethane	2.75	128	1994170	48.60	ug/L #	67
24) Chloroform	2.77	83	8276920	43.85	ug/L	96
25) 2,2-Dichloropropane	2.70	77	6502522	48.95	ug/L	99
28) 1,2-Dichloroethane	3.16	62	8194913	50.29	ug/L	97
29) 1,1,1-Trichloroethane	2.88	97	6518506	44.11	ug/L	99
30) 1,1-Dichloropropene	2.94	75	6620351	47.23	ug/L	98
31) Carbon Tetrachloride	2.85	117	6577163	46.13	ug/L	99
32) Benzene	3.06	78	18989382	52.75	ug/L	97
33) Dibromomethane	3.58	93	3867205	54.04	ug/L	97
34) 1,2-Dichloropropane	3.64	63	5942551	55.79	ug/L	100
35) Trichloroethene	3.36	95	5619760	53.34	ug/L	98
36) Bromodichloromethane	3.66	83	8447922	50.45	ug/L	97
37) 2-Chloroethyl-vinyl-ether	3.97	63	4734238	179.44	ug/L	92
38) cis-1,3-Dichloropropene	4.02	75	8217285	52.52	ug/L	93
39) 4-Methyl-2-Pentanone (MIBK)	4.37	43	7681858m	118.44	ug/L	
40) trans-1,3-Dichloropropene	4.40	75	6980098	47.90	ug/L	96
41) 1,1,2-Trichloroethane	4.50	83	3595741	53.75	ug/L	94
43) Toluene	4.16	91	18195303	52.68	ug/L	98
44) Ethyl Methacrylate	4.49	69	4095356	51.49	ug/L	97
45) 1,3-Dichloropropane	4.67	76	6929320	57.56	ug/L	98
46) 2-Hexanone	4.90	43	5625337	133.96	ug/L	
48) Dibromochloromethane	4.61	129	5466619	46.60	ug/L	95
49) 1,2-Dibromoethane (EDB)	4.77	107	4325399	47.69	ug/L	92

(#) = qualifier out of range (m) = manual integration  
 0201002.D 021020RC.M Thu Feb 20 09:29:55 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020\0201002.D  
 Acq On : 20 Feb 2020 8:11 am  
 Sample : BFB/CCV 50PPB  
 Misc : QC

Vial: 2  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 20 9:29 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)

Title  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Page

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.39	166	4255183	47.01	ug/L	95
51) 1,1,1,2-Tetrachloroethane	5.15	131	4698207	45.86	ug/L	92
52) Chlorobenzene	5.11	112	12887609	47.45	ug/L	99
53) Ethylbenzene	5.12	91	21613332	48.52	ug/L	98
54) m,p-Xylene	5.22	91	32675231	95.62	ug/L	98
55) o-Xylene	5.51	91	17194897m	49.67	ug/L	
56) Bromoform	5.57	173	2866141	52.67	ug/L #	97
57) Styrene	5.55	104	11504423	46.68	ug/L #	87
58) 1,1,2,2-Tetrachloroethane	6.09	83	4843705	49.93	ug/L	99
59) trans-1,4-Dichloro-2-buten	6.22	53	1190409	45.64	ug/L	86
60) 1,2,3-Trichloropropane	6.19	75	3847715	49.21	ug/L	93
61) Isopropylbenzene	5.74	105	18103815	52.30	ug/L	98
63) Bromobenzene	6.02	156	5038509	49.39	ug/L	96
64) n-Propylbenzene	6.04	91	23944566	48.35	ug/L	99
65) 2-Chlorotoluene	6.15	91	16661282	49.62	ug/L	100
66) 4-Chlorotoluene	6.28	126	4586353	50.54	ug/L	90
68) 1,3,5-Trimethylbenzene	6.18	105	13755670	44.13	ug/L	98
69) tert-Butylbenzene	6.42	119	12934892	44.25	ug/L	99
70) 1,2,4-Trimethylbenzene	6.48	105	13437781	45.19	ug/L #	95
71) sec-Butylbenzene	6.56	105	17295761	45.81	ug/L #	99
72) 1,3-Dichlorobenzene	6.72	146	7969994	46.08	ug/L	99
73) 1,4-Dichlorobenzene	6.79	148	5341476	46.44	ug/L	91
74) p-Isopropyltoluene	6.67	119	13184103	50.94	ug/L	99
75) 1,2-Dichlorobenzene	7.12	146	7483668	46.08	ug/L	98
76) n-Butylbenzene	7.00	91	13757004	49.09	ug/L	97
77) 1,2-Dibromo-3-chloropropan	7.76	155	241459	43.85	ug/L	
78) 1,2,4-Trichlorobenzene	8.32	180	3660669	58.81	ug/L	98
79) Naphthalene	8.59	128	4655401	52.57	ug/L	
80) Hexachloro-1,3-butadiene	8.30	225	1415411	53.62	ug/L	97
81) 1,2,3-Trichlorobenzene	8.75	180	2525888	51.02	ug/L	
82) 1-Methylnapthalene	9.62	142	671207	56.83	ug/L	
83) 2-Methylnapthalene	9.50	142	445363	44.03	ug/L	

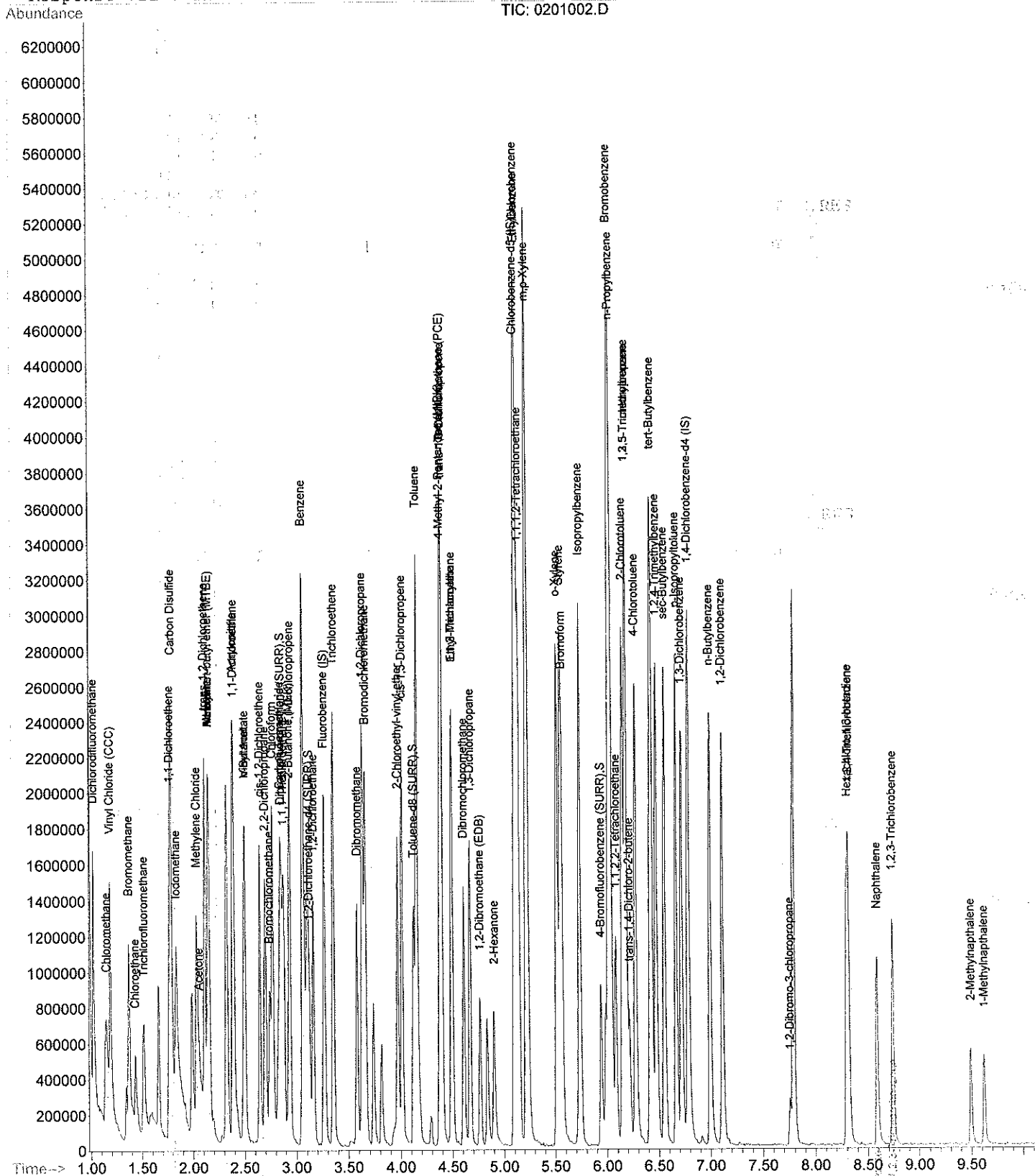
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020\0201002.D  
Acq On : 20 Feb 2020 8:11 am  
Sample : BFB/CCV 50PPB  
Misc : QC  
MS Integration Params: EVENTS.E  
Quant Time: Feb 20 9:29 2020

Vial: 2  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration





GC/MS QA-QC CHECK REPORT

Tune File: C:\HPCHEM\1\DATA\022020\0201002.D

Tune Time: 20-Feb-20 8:11 AM

6948284 5227954 4333331

FILE	SAMPLE	SURROGATE RECOVERY %				INTERNAL STANDARD RESPONSES		
0601006.D	MB	98	98	102	96	8368567	5173247	2911328
0301003.D	LCS 50PPB	92	111	113	108	6990304	5006562	4223233
0401004.D	LCSD 50PPB	86	103	109	102	7480609	5317404	4448661
0801008.D	20-2337	98	99	106	94	8609680	5520085	2981918

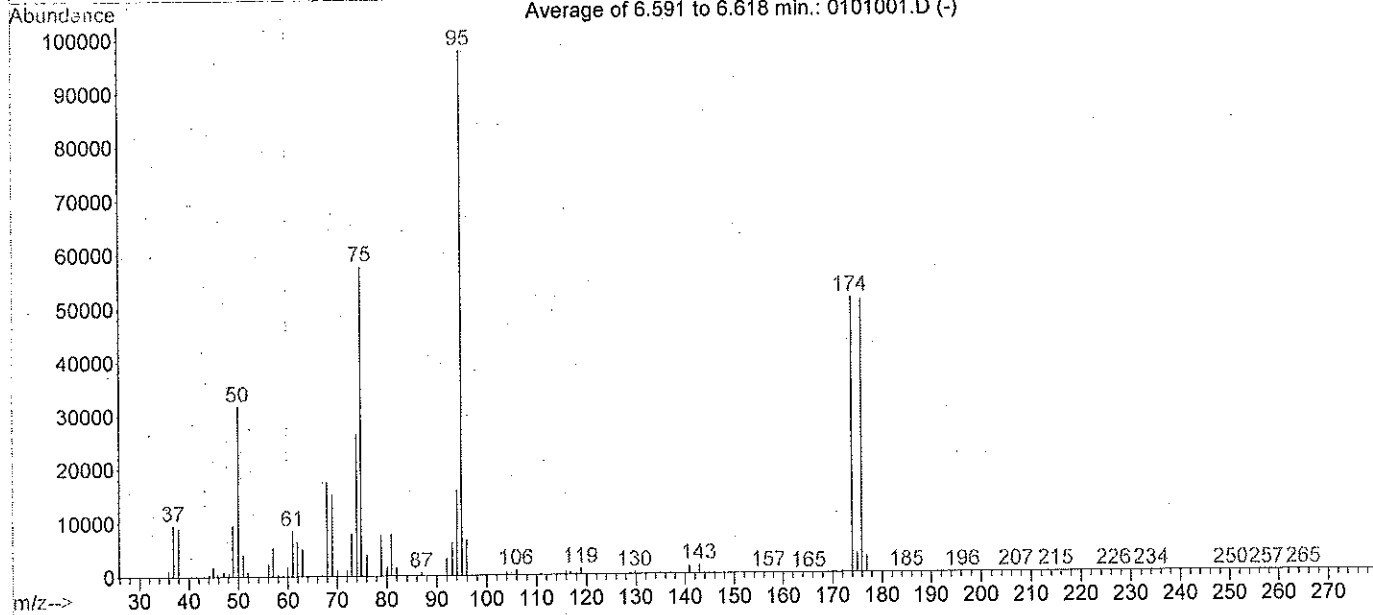
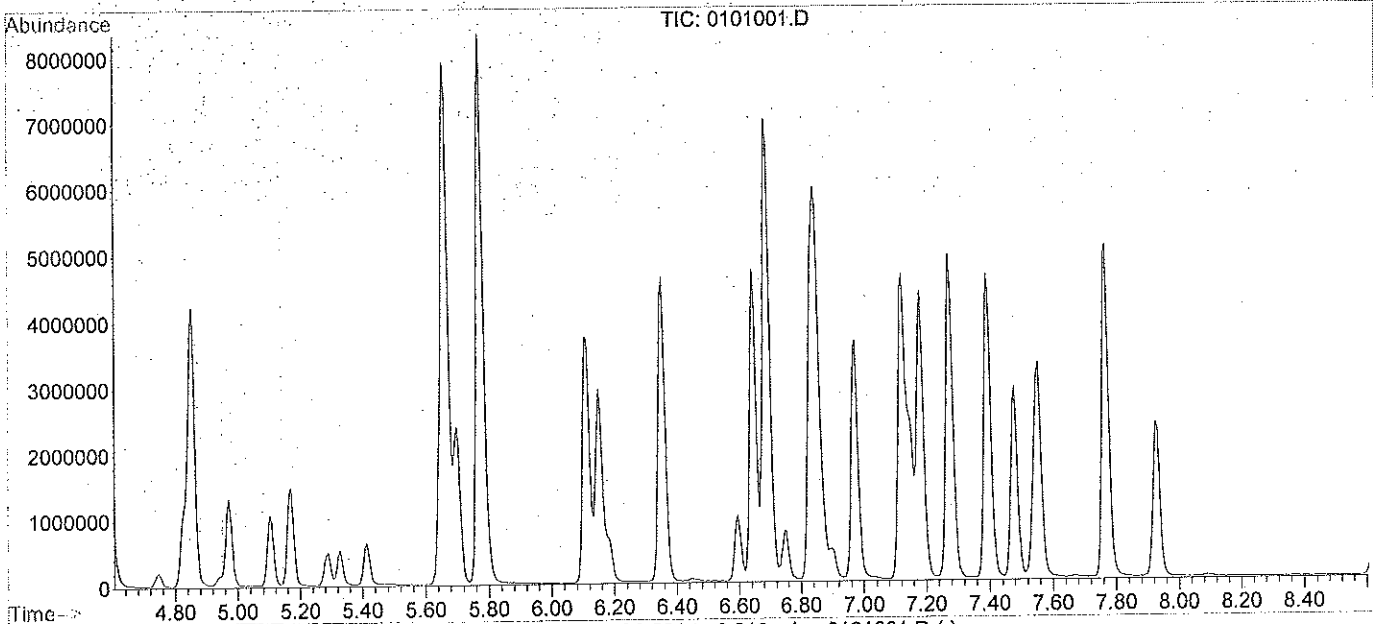
\* - fails criteria

t - fails 1 Tues. 25-Feb 7:22:00 2020

Created:

Data File : C:\HPCHEM\1\DATA\021920\0101001.D  
 Acq On : 19 Feb 2020 9:53 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00



Spectrum Information: Average of 6.591 to 6.618 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.5	31799	PASS
75	95	30	60	59.0	57665	PASS
95	95	100	100	100.0	97812	PASS
96	95	5	9	6.8	6661	PASS
173	174	0.00	2	0.5	245	PASS
174	95	50	100	52.5	51320	PASS
175	174	5	9	7.1	3633	PASS
176	174	95	101	98.9	50781	PASS
177	176	4	9	6.0	3025	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\021920\0301003.D  
 Acq On : 19 Feb 2020 10:27 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Fluorobenzene (IS)	1.000	1.000	0.0	106	-0.01
2	Dichlorodifluoromethane	1.984	1.949	1.8	88	0.00
3	Chloromethane	1.201	1.038	13.6	90	0.00
4 m	Vinyl Chloride*	1.372	1.431	-4.3	95	0.00
5	Bromomethane	1.634	1.518	7.1	95	0.00
6	Chloroethane	0.953	0.995	-4.4	98	0.00
7	Acrolein	1.142	1.035	9.4	90	-0.01
8	Trichlorofluoromethane	4.108	4.165	-1.4	97	0.00
9	Acetone	0.303	0.302	0.3	95	0.00
10 m	1,1-Dichloroethene*	3.170	2.934	7.4	97	0.00
11	Acrylonitrile	3.549	3.134	11.7	93	-0.01
12	Iodomethane	1.364	1.408	-3.2	104	0.00
13	Methylene Chloride	1.333	1.275	4.4	98	-0.01
14	Carbon Disulfide	2.105	1.934	8.1	94	0.00
15 m	trans-1,2-Dichloroethene*	1.237	1.142	7.7	92	0.00
16 m	Methyl-tert-butyl ether* (M	2.871	2.624	8.6	91	0.00
17 m	1,1-Dichloroethane*	3.665	3.454	5.8	99	-0.01
18	Vinyl Acetate	2.200	2.128	3.3	87	-0.01
19	N-Hexane	2.190	1.976	9.8	91	-0.01
20	N-Butanol	1.125	1.065	5.3	97	-0.01
21	2-Butanone (MEK)	0.322	0.305	5.3	97	-0.01
22 m	cis-1,2-Dichloroethene*	2.232	2.088	6.5	95	-0.01
23	Bromochloromethane	0.339	0.330	2.7	96	-0.01
24 m	Chloroform*	2.972	2.730	8.1	94	-0.01
25	2-2-Dichloropropane	3.066	2.770	9.7	91	-0.01
26 s	Dibromofluoromethane (SURR)	0.371	0.384	-3.5	102	-0.01
27 s	1,2-Dichloroethane-d4 (SURR)	0.518	0.518	0.0	96	-0.01
28	1,2-Dichloroethane	2.413	2.030	15.9	84	-0.01
29 m	1,1,1-Trichloroethane*	3.102	2.897	6.6	95	-0.01
30	1,1-Dichloropropene	1.985	1.926	3.0	98	-0.01
31	Carbon Tetrachloride	2.826	2.630	6.9	96	-0.01
32 m	Benzene*	3.609	3.490	3.3	98	-0.02
33	Dibromomethane	0.708	0.656	7.3	92	-0.02
34	1,2-Dichloropropane	0.990	0.939	5.2	94	-0.01
35 m	Trichloroethene*	1.349	1.264	6.3	95	-0.02
36	Bromodichloromethane	2.055	1.938	5.7	95	-0.02
37	2-Chloroethyl-vinyl ether	0.248	0.230	7.3	91	-0.02
38	cis-1,3-Dichloropropene	1.583	1.533	3.2	95	-0.02
39	4-Methyl-2-Pentanone (MIBK)	0.725	0.686	5.4	86	-0.02
40	trans-1,3-Dichloropene	1.505	1.401	6.9	91	-0.02
41	1,1,2-Trichloroethane	0.568	0.548	3.5	92	-0.02
42 s	Toluene-d8 (SURR)	0.963	0.950	1.3	98	-0.02
43 m	Toluene*	4.276	4.163	2.6	99	-0.02
44	Ethyl Methacrylate	0.136	0.119	12.5	87	-0.01
45	1,3-Dichloropropane	1.189	1.111	6.6	90	-0.02
46	2-Hexanone	0.492	0.478	2.8	90	-0.02
47	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	101	-0.02
48	Dibromochloromethane	1.241	1.201	3.2	92	-0.02
49	1,2-Dibromoethane (EDB)	0.935	0.895	4.3	90	-0.02
50	Tetrachloroethene	1.107	1.142	-3.2	103	-0.02
51 m	1,1,1,2-Tetrachloroethane*	1.192	1.195	-0.3	96	-0.02
52 m	Chlorobenzene*	3.444	3.454	-0.3	100	-0.02
53 m	Ethyl Benzene*	7.580	7.809	-3.0	94	-0.02
54	m,p-Xylene	6.053	6.404	-5.8	96	-0.02
55 m	o-Xylene*	2.136	2.201	-3.0	97	-0.02
56	Bromoform	0.546	0.528	3.3	91	-0.02
57	Styrene	3.206	3.256	-1.6	96	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\021920\0301003.D  
 Acq On : 19 Feb 2020 10:27 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
58	1,1,2,2-Tetrachloroethane	0.660	0.612	7.3	89	-0.02
59	trans-1,4-Dichloro-2-butene	0.432	0.400	7.4	85	-0.02
60	1,2,3-Trichloropropane	1.388	1.421	-2.4	89	-0.02
61	Isopropylbenzene	6.963	7.594	-9.1	95	-0.02
62 s	4-Bromofluorobenzene (SURR)	0.658	0.714	-8.5	104	-0.02
63	Bromobenzene	1.020	1.066	-4.5	99	-0.02
64 m	N-Propylbenzene*	9.982	10.078	-1.0	93	-0.02
65	2-Chlorotoluene	6.588	6.434	2.3	91	-0.02
66	4-Chlorotoluene	1.208	1.233	-2.1	95	-0.02
67	1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	102	-0.02
68	1,3,5-Trimethylbenzene	15.265	15.028	1.6	94	-0.02
69	tert-butylbenzene	13.587	13.368	1.6	97	-0.02
70	1,2,4-Trimethylbenzene	14.962	14.571	2.6	91	-0.02
71	sec-Butylbenzene	20.009	20.228	-1.1	94	-0.02
72	1,3-Dichlorobenzene	4.929	4.856	1.5	98	-0.02
73	1,4-Dichlorobenzene	3.116	2.967	4.8	95	-0.02
74	p-Isopropyltoluene	14.950	14.788	1.1	94	-0.02
75	1,2-Dichlorobenzene	4.219	4.133	2.0	97	-0.02
76	N-Butylbenzene	18.989	18.262	3.8	90	-0.02
77	1,2-Dibromo-3-chloropropane	0.211	0.184	12.8	82	-0.02
78	1,2,4-Trichlorobenzene	3.015	2.886	4.3	93	-0.02
79	Naphthalene	4.470	4.498	-0.6	91	-0.02
80	Hexachloro-1,3-butadiene	1.827	1.714	6.2	92	-0.02
81	1,2,3-Trichlorobenzene	2.450	2.345	4.3	91	-0.02
82	1-Methylnaphthalene	1.692	1.793	-6.0	91	-0.02
83	2-Methylnaphthalene	2.189	2.112	3.5	88	-0.02

Data File : C:\HPCHEM\1\DATA\021920\0301003.D  
 Acq On : 19 Feb 2020 10:27 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 14:33 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	582409	50.00	ppb	-0.01
47) Chlorobenzene-d5 (IS)	5.65	117	426347	50.00	ppb	-0.02
67) 1,4-Dichlorobenzene (IS)	7.54	152	183104	50.00	ppb	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	223385	51.75	ppb	-0.01
Spiked Amount	50.000	Range 54 - 140	Recovery =	103.50%		
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	301444	49.98	ppb	-0.01
Spiked Amount	50.000	Range 54 - 138	Recovery =	99.96%		
42) Toluene-d8 (SURR)	4.55	98	553209	49.32	ppb	-0.02
Spiked Amount	50.000	Range 61 - 127	Recovery =	98.64%		
62) 4-Bromofluorobenzene (SURR)	6.60	95	304379	54.29	ppb	-0.02
Spiked Amount	50.000	Range 69 - 131	Recovery =	108.58%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1135187	49.12	ppb	
3) Chloromethane	1.40	50	604519	43.21	ppb	98
4) Vinyl Chloride*	1.44	62	833669	52.17	ppb	99
5) Bromomethane	1.62	94	883867	46.44	ppb	99
6) Chloroethane	1.69	64	579655	52.22	ppb	99
7) Acrolein	2.39	56	602516	45.30	ppb	98
8) Trichlorofluoromethane	1.76	101	2425479	50.68	ppb	99
9) Acetone	2.31	43	439523	124.69	ppb	98
10) 1,1-Dichloroethene*	2.01	61	1709055	46.29	ppb	98
11) Acrylonitrile	2.65	53	1825252	44.15	ppb	98
12) Iodomethane	2.09	142	820075	51.63	ppb	97
13) Methylene Chloride	2.29	84	742778	47.83	ppb	92
14) Carbon Disulfide	2.04	76	1126555	45.95	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	665352	46.18	ppb	99
16) Methyl-tert-butyl ether* (	2.41	73	1528077	45.69	ppb	# 20
17) 1,1-Dichloroethane*	2.67	63	2011384	47.11	ppb	98
18) Vinyl Acetate	2.77	43	1239572	48.38	ppb	99
19) N-Hexane	2.39	57	1151054	45.13	ppb	99
20) N-Butanol	2.76	57	620207	47.33	ppb	97
21) 2-Butanone (MEK)	3.23	43	444290	118.33	ppb	# 97
22) cis-1,2-Dichloroethene*	2.94	61	1215841	46.77	ppb	97
23) Bromochloromethane	3.05	128	192010	48.57	ppb	89
24) Chloroform*	3.07	83	1590085	45.93	ppb	99
25) 2-2-Dichloropropane	2.99	77	1613440	45.18	ppb	99
28) 1,2-Dichloroethane	3.50	62	1182576	42.08	ppb	98
29) 1,1,1-Trichloroethane*	3.19	97	1686970	46.69	ppb	98
30) 1,1-Dichloropropene	3.25	75	1121991	48.53	ppb	100
31) Carbon Tetrachloride	3.15	117	1531470	46.53	ppb	100
32) Benzene*	3.38	78	2032870	48.35	ppb	96
33) Dibromomethane	3.96	93	382081	46.31	ppb	95
34) 1,2-Dichloropropane	4.02	63	546849	47.40	ppb	97
35) Trichloroethene*	3.70	95	736241	46.85	ppb	97
36) Bromodichloromethane	4.04	83	1128505	47.15	ppb	97
37) 2-Chloroethyl-vinyl ether	4.37	63	536155	185.96	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	892637	48.40	ppb	90
39) 4-Methyl-2-Pentanone (MIBK)	4.83	43	999281	118.30	ppb	98
40) trans-1,3-Dichloropropene	4.86	75	815673	46.52	ppb	85
41) 1,1,2-Trichloroethane	4.97	83	319366	48.31	ppb	99
43) Toluene*	4.59	91	2424451	48.68	ppb	99
44) Ethyl Methacrylate	4.94	69	69291m	43.87	ppb	
45) 1,3-Dichloropropane	5.17	76	646859	46.69	ppb	99
46) 2-Hexanone	5.41	43	696175	121.44	ppb	99
48) Dibromochloromethane	5.11	129	512185	48.40	ppb	97
49) 1,2-Dibromoethane (EDB)	5.29	107	381770	47.88	ppb	97

(#) = qualifier out of range (m) = manual integration  
 0301003.D 011820RC.M Thu Feb 20 09:52:40 2020

Data File : C:\HPCHEM\1\DATA\021920\0301003.D  
 Acq On : 19 Feb 2020 10:27 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 14:33 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	486898	51.56	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.70	131	509659	50.15	ppb	99
52) Chlorobenzene*	5.66	112	1472468	50.14	ppb	94
53) Ethyl Benzene*	5.67	91	3329498	51.51	ppb	96
54) m,p-Xylene	5.77	91	5460394	105.79	ppb	97
55) o-Xylene*	6.11	106	938295	51.53	ppb	94
56) Bromoform	6.19	173	224978	48.32	ppb	98
57) Styrene	6.16	104	1388151	50.78	ppb	95
58) 1,1,2,2-Tetrachloroethane	6.75	85	261133	46.43	ppb	98
59) trans-1,4-Dichloro-2-buten	6.90	53	170744	46.30	ppb	91
60) 1,2,3-Trichloropropane	6.87	75	605946	51.21	ppb	
61) Isopropylbenzene	6.35	105	3237528	54.53	ppb	98
63) Bromobenzene	6.69	156	454661	52.30	ppb	88
64) N-Propylbenzene*	6.69	91	4296586	50.48	ppb	99
65) 2-Chlorotoluene	6.84	91	2742995	48.83	ppb	99
66) 4-Chlorotoluene	6.97	126	525594	51.02	ppb	96
68) 1,3,5-Trimethylbenzene	6.85	105	2751677	49.22	ppb	97
69) tert-butylbenzene	7.12	119	2447678	49.19	ppb	97
70) 1,2,4-Trimethylbenzene	7.18	105	2668070	48.69	ppb	97
71) sec-Butylbenzene	7.28	105	3703880	50.55	ppb	100
72) 1,3-Dichlorobenzene	7.48	146	889163	49.26	ppb	98
73) 1,4-Dichlorobenzene	7.56	148	543268	47.61	ppb	99
74) p-Isopropyltoluene	7.40	119	2707718	49.46	ppb	98
75) 1,2-Dichlorobenzene	7.93	146	756711	48.98	ppb	97
76) N-Butylbenzene	7.77	91	3343888	48.09	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.66	155	33613	43.53	ppb	89
78) 1,2,4-Trichlorobenzene	9.29	180	528492	47.87	ppb	98
79) Naphthalene	9.59	128	823642	50.32	ppb	98
80) Hexachloro-1,3-butadiene	9.25	225	313838	46.91	ppb	98
81) 1,2,3-Trichlorobenzene	9.77	180	429361	47.86	ppb	99
82) 1-Methylnaphthalene	10.75	142	328299	52.98	ppb	99
83) 2-Methylnaphthalene	10.60	142	386649	48.24	ppb	99

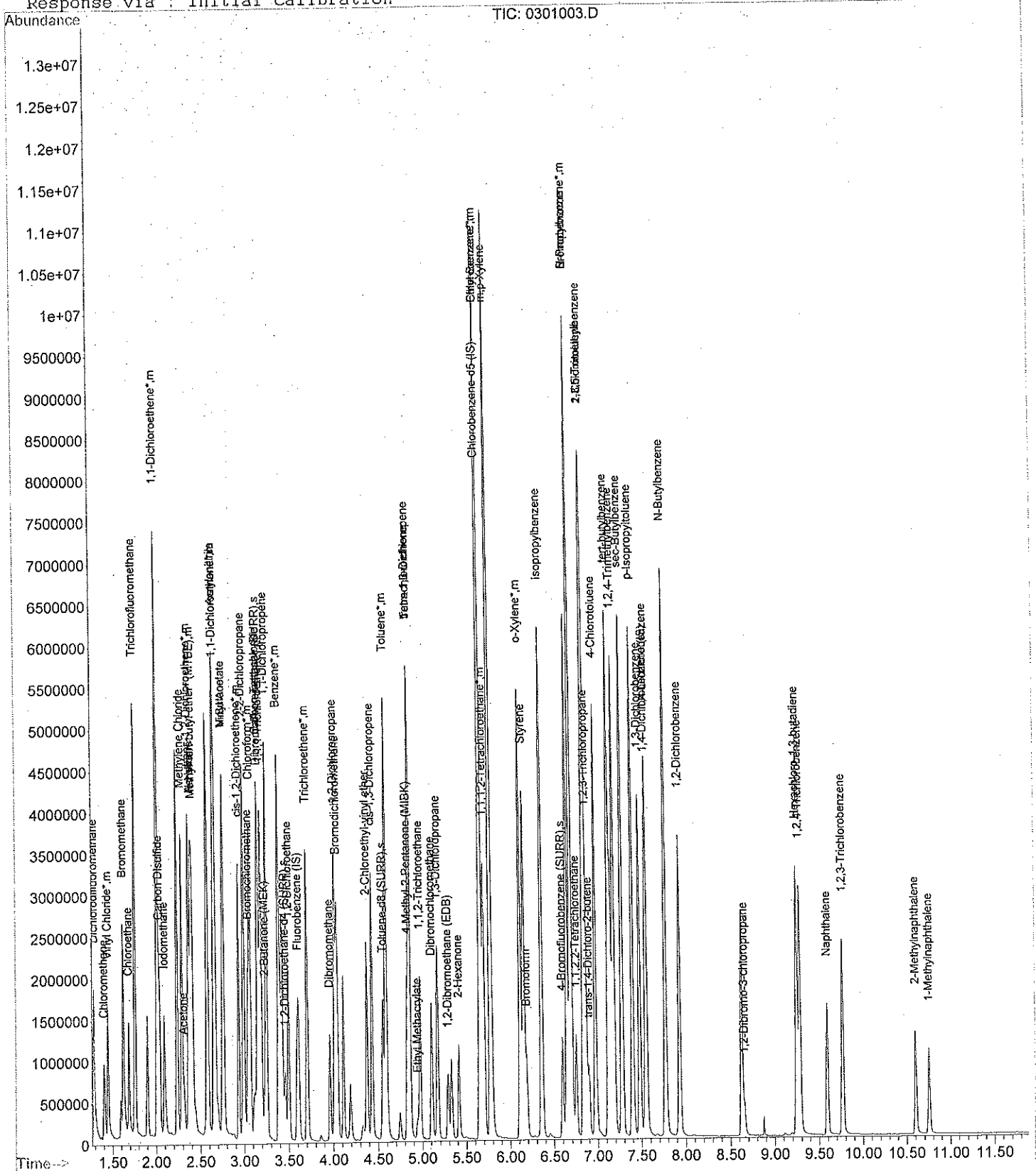
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021920\0301003.D  
 Acq On : 19 Feb 2020 10:27 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 14:33 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\021920\0301003.D

Tune Time : 19 Feb 2020 10:27 am

Daily Calibration File : C:\HPCHEM\1\DATA\021920\0301003.D

File	Sample	Surrogate Recovery %				Internal Standard Responses		
		109	105	95	100	582409	426347	183104
0401004.D	LCS 50pp	109	105	95	100	524857	433975	182347
0501005.D	MB	99	103	101	93	779000	460362	160543
2101021.D	2338 ru	99	96	115	91	1011661	716449	275101
2201022.D	2339 ru	97	95	106	92	1037595	649195	245789
2301023.D	2340 ru	95	92	102	89	944928	548959	188202
2401024.D	2341 ru	96	96	103	90	971841	562622	191969
2501025.D	2342 ru	97	97	104	87	975218	601977	216586

t - fails 12hr time check \* - fails criteria

Created: Tue Feb 25 15:26:04 2020 VOC 1





ENVision Laboratories, Inc.  
1439 Sadlier Circle West Drive  
Indianapolis, IN 46239  
Tel: 317.351.8632  
Fax: 317.351.8639  
[www.envisionlaboratories.com](http://www.envisionlaboratories.com)

## 8260 VOC Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)



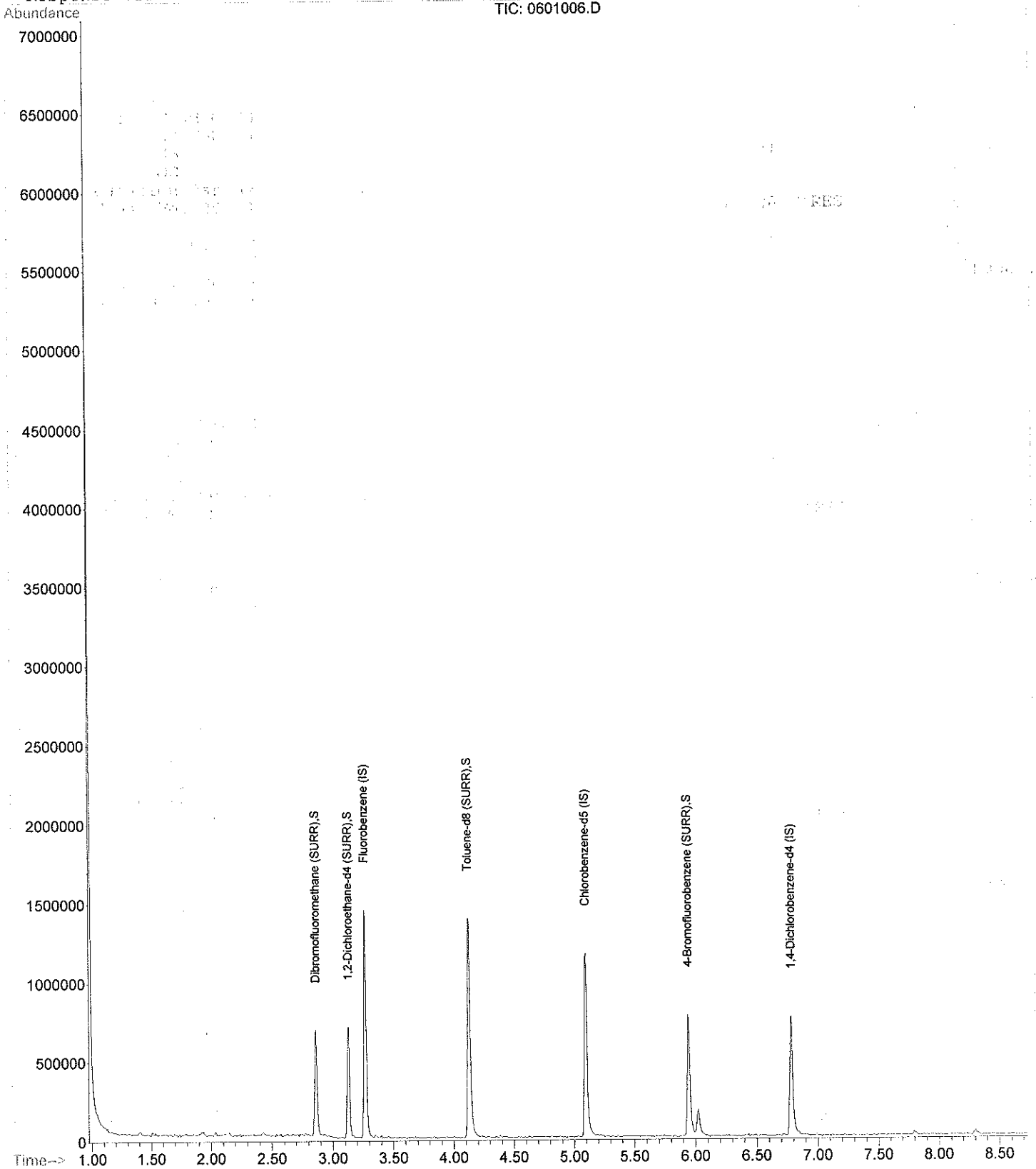
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020\0601006.D  
Acq On : 20 Feb 2020 9:21 am  
Sample : MB  
Misc : QC  
MS Integration Params: EVENTS.E  
Quant Time: Feb 20 9:29 2020

Vial: 6  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\022020\0301003.D  
 Acq On : 20 Feb 2020 8:29 am  
 Sample : LCS 50PPB  
 Misc : QC

Vial: 3  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 20 9:27 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.27	96	6990304	50.00	ug/L	-0.02
47) Chlorobenzene-d5 (IS)	5.10	117	5006562	50.00	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4 (IS)	6.78	150	4223233	50.00	ug/L	-0.01

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	2.86	113	2292954	46.14	ug/L	-0.01
Spiked Amount	50.000	Range	74 - 132	Recovery	=	92.28%
27) 1,2-Dichloroethane-d4 (SUR)	3.13	65	3446955	55.69	ug/L	-0.01
Spiked Amount	50.000	Range	77 - 134	Recovery	=	111.38%
42) Toluene-d8 (SURR)	4.13	98	6916390	56.72	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 130	Recovery	=	113.44%
62) 4-Bromofluorobenzene (SURR)	5.94	95	2761131	54.05	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 133	Recovery	=	108.10%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	12160367	47.37	ug/L	1
3) Chloromethane	1.15	50	11696155	48.59	ug/L	97
4) Vinyl Chloride (CCC)	1.19	62	10003895	48.27	ug/L	92
5) Bromomethane	1.37	94	6593205	49.11	ug/L	99
6) Chloroethane	1.43	64	3488991	49.99	ug/L	1
7) Acrolein	2.15	56	2943921	42.92	ug/L #	98
8) Trichlorofluoromethane	1.51	101	8940523	50.28	ug/L	150 1.05 9.50
9) Acetone	2.06	43	1461777	114.45	ug/L #	97
10) 1,1-Dichloroethene	1.77	61	7534979	44.86	ug/L	1
11) Acrylonitrile	2.39	53	6952623	47.53	ug/L	93
12) Iodomethane	1.83	142	8135711	50.68	ug/L	1
13) Methylene Chloride	2.04	49	7062622	43.35	ug/L #	75
14) Carbon Disulfide	1.78	76	16301231	45.37	ug/L	1
15) trans-1,2-Dichloroethene	2.11	96	4334238	47.21	ug/L	95
16) Methyl-tert-butyl ether (M)	2.16	73	5850199	57.28	ug/L	86
17) 1,1-Dichloroethane	2.40	63	8034537	44.28	ug/L	98
18) Vinyl Acetate	2.50	43	7580419	46.94	ug/L	98
19) n-Hexane	2.15	57	5214999	50.21	ug/L	94
20) n-Butanol	2.50	57	2045049	55.68	ug/L #	75
21) 2-Butanone (MEK)	2.92	43	2693416	110.22	ug/L	1
22) cis-1,2-Dichloroethene	2.65	61	6017539	44.98	ug/L	95
23) Bromochloromethane	2.75	128	1970554	47.74	ug/L #	97
24) Chloroform	2.77	83	8766364	46.16	ug/L	98
25) 2,2-Dichloropropane	2.70	77	6342842	47.46	ug/L	99
28) 1,2-Dichloroethane	3.16	62	7869660	48.00	ug/L	99
29) 1,1,1-Trichloroethane	2.88	97	6586285	44.30	ug/L	98
30) 1,1-Dichloropropene	2.94	75	6352274	45.05	ug/L	99
31) Carbon Tetrachloride	2.85	117	6736496	46.97	ug/L	99
32) Benzene	3.06	78	19246304	53.15	ug/L	98
33) Dibromomethane	3.58	93	3654800	50.76	ug/L	99
34) 1,2-Dichloropropane	3.63	63	5787158	54.01	ug/L	94
35) Trichloroethene	3.36	95	5608500	52.92	ug/L	99
36) Bromodichloromethane	3.66	83	8597791	51.03	ug/L	99
37) 2-Chloroethyl-vinyl-ether	3.97	63	5265702	198.38	ug/L	1
38) cis-1,3-Dichloropropene	4.02	75	8338720	52.97	ug/L	95
39) 4-Methyl-2-Pentanone (MIBK)	4.38	43	8098262m	124.11	ug/L	1
40) trans-1,3-Dichloropropene	4.40	75	6738206	45.97	ug/L	97
41) 1,1,2-Trichloroethane	4.50	83	3437095	51.07	ug/L	97
43) Toluene	4.16	91	18289470	52.63	ug/L	97
44) Ethyl Methacrylate	4.49	69	3891240	48.63	ug/L	99
45) 1,3-Dichloropropane	4.67	76	6510894	53.76	ug/L	99
46) 2-Hexanone	4.90	43	5657537	133.91	ug/L	1
48) Dibromochloromethane	4.61	129	5493901	48.91	ug/L	96
49) 1,2-Dibromoethane (EDB)	4.77	107	4160821	47.90	ug/L	99

Data File : C:\HPCHEM\1\DATA\022020\0301003.D  
 Acq On : 20 Feb 2020 8:29 am  
 Sample : LCS 50PPB  
 Misc : QC

Vial: 3  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 20 9:27 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.39	166	4354989	50.24	ug/L	94
51) 1,1,1,2-Tetrachloroethane	5.15	131	4545123	46.32	ug/L	96
52) Chlorobenzene	5.11	112	12366458	47.54	ug/L	99
53) Ethylbenzene	5.12	91	20575915	48.23	ug/L	98
54) m,p-Xylene	5.22	91	33284331	101.71	ug/L	100
55) o-Xylene	5.52	91	15017508	45.30	ug/L	98
56) Bromoform	5.57	173	2620968	50.29	ug/L #	97
57) Styrene	5.55	104	11588276	49.10	ug/L #	80
58) 1,1,2,2-Tetrachloroethane	6.09	83	4497113	48.41	ug/L	98
59) trans-1,4-Dichloro-2-buten	6.22	53	1184885	47.43	ug/L	97
60) 1,2,3-Trichloropropane	6.19	75	3685424	49.22	ug/L	96
61) Isopropylbenzene	5.74	105	17206348	51.91	ug/L	98
63) Bromobenzene	6.02	156	4942489	50.59	ug/L	95
64) n-Propylbenzene	6.04	91	23265144	49.06	ug/L	98
65) 2-Chlorotoluene	6.15	91	16114080	50.11	ug/L	99
66) 4-Chlorotoluene	6.28	126	4360946	50.18	ug/L	86
68) 1,3,5-Trimethylbenzene	6.18	105	13428323	44.20	ug/L	98
69) tert-Butylbenzene	6.42	119	13156232	46.18	ug/L	97
70) 1,2,4-Trimethylbenzene	6.48	105	12804052	44.18	ug/L #	92
71) sec-Butylbenzene	6.56	105	16746825	45.52	ug/L #	99
72) 1,3-Dichlorobenzene	6.72	146	7660634	45.45	ug/L	98
73) 1,4-Dichlorobenzene	6.79	148	5309665	47.36	ug/L	96
74) p-Isopropyltoluene	6.67	119	12828007	50.86	ug/L	98
75) 1,2-Dichlorobenzene	7.12	146	7314938	46.22	ug/L	99
76) n-Butylbenzene	7.00	91	13810347	50.56	ug/L	98
77) 1,2-Dibromo-3-chloropropan	7.75	155	295978	55.16	ug/L	
78) 1,2,4-Trichlorobenzene	8.32	180	3447604	56.83	ug/L	97
79) Naphthalene	8.59	128	4096126	47.46	ug/L	
80) Hexachloro-1,3-butadiene	8.30	225	1426108	55.44	ug/L	97
81) 1,2,3-Trichlorobenzene	8.74	180	2504517	51.91	ug/L	
82) 1-Methylnapthalene	9.62	142	558044	48.48	ug/L	
83) 2-Methylnapthalene	9.49	142	561193	56.93	ug/L	

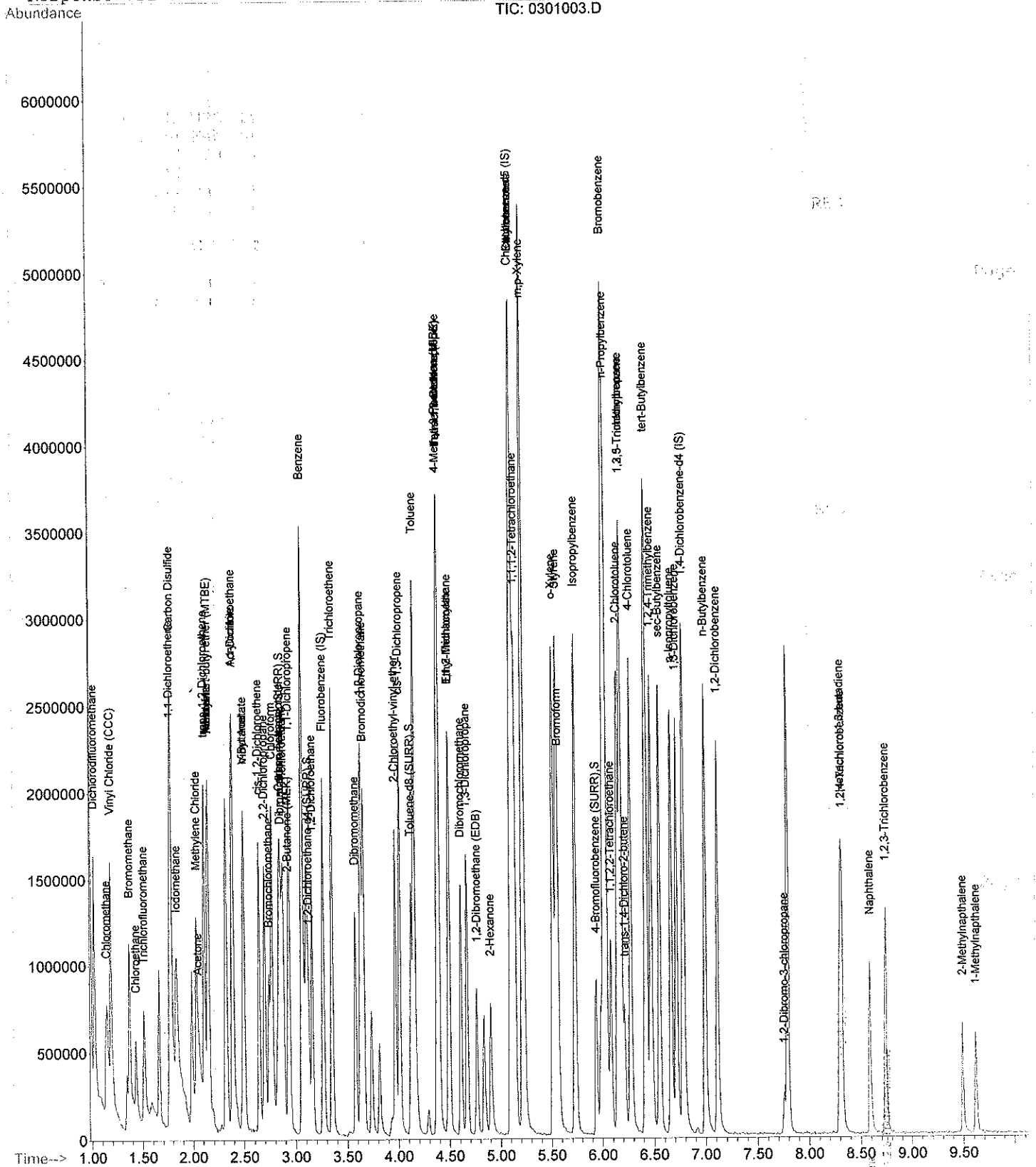
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020\0301003.D  
Acq On : 20 Feb 2020 8:29 am  
Sample : LCS 50PPB  
Misc : QC  
MS Integration Params: EVENTS.E  
Quant Time: Feb 20 9:27 2020

Vial: 3  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\022020\0401004.D  
 Acq On : 20 Feb 2020 8:46 am  
 Sample : LCSD 50PPB  
 Misc : QC

Vial: 4  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 20 9:25 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.27	96	7480609	50.00	ug/L	-0.01
47) Chlorobenzene-d5 (IS)	5.10	117	5317404	50.00	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4 (IS)	6.78	150	4448661	50.00	ug/L	-0.01

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	2.86	113	2295754	43.17	ug/L	-0.01
Spiked Amount	50.000	Range	74 - 132	Recovery	=	86.34%
27) 1,2-Dichloroethane-d4 (SUR)	3.13	65	3402966	51.37	ug/L	-0.01
Spiked Amount	50.000	Range	77 - 134	Recovery	=	102.74%
42) Toluene-d8 (SURR)	4.13	98	7124842	54.60	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 130	Recovery	=	109.20%
62) 4-Bromofluorobenzene (SURR)	5.94	95	2775555	51.16	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 133	Recovery	=	102.32%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	14618126	53.21	ug/L	
3) Chloromethane	1.15	50	11823989	45.90	ug/L	97
4) Vinyl Chloride (CCC)	1.19	62	10056038	45.34	ug/L	99
5) Bromomethane	1.37	94	7040223	49.01	ug/L	
6) Chloroethane	1.44	64	3511181	47.01	ug/L	# 91
7) Acrolein	2.15	56	3513270	47.86	ug/L	
8) Trichlorofluoromethane	1.52	101	8986807	47.22	ug/L	
9) Acetone	2.06	43	1613984	118.09	ug/L	
10) 1,1-Dichloroethene	1.77	61	7836592	43.60	ug/L	
11) Acrylonitrile	2.38	53	7755800	49.54	ug/L	
12) Iodomethane	1.84	142	8609422	50.11	ug/L	100
13) Methylene Chloride	2.03	49	7649732	43.87	ug/L	
14) Carbon Disulfide	1.79	76	17462877	45.42	ug/L	
15) trans-1,2-Dichloroethene	2.11	96	4661845	47.45	ug/L	92
16) Methyl-tert-butyl ether (M)	2.16	73	6230459	57.00	ug/L	83
17) 1,1-Dichloroethane	2.40	63	8504547	43.80	ug/L	99
18) Vinyl Acetate	2.50	43	7845858	45.40	ug/L	98
19) n-Hexane	2.15	57	5373296	48.35	ug/L	91
20) n-Butanol	2.50	57	2070496	52.68	ug/L	# 79
21) 2-Butanone (MEK)	2.92	43	3126379m	119.55	ug/L	
22) cis-1,2-Dichloroethene	2.65	61	6258316	43.72	ug/L	100
23) Bromochloromethane	2.75	128	2124688	48.10	ug/L	# 98
24) Chloroform	2.77	83	8904985	43.82	ug/L	97
25) 2,2-Dichloropropane	2.70	77	6541996	45.74	ug/L	99
28) 1,2-Dichloroethane	3.16	62	8263450	47.10	ug/L	98
29) 1,1,1-Trichloroethane	2.88	97	6960444	43.75	ug/L	99
30) 1,1-Dichloropropene	2.94	75	7020909	46.53	ug/L	99
31) Carbon Tetrachloride	2.85	117	6762259	44.06	ug/L	100
32) Benzene	3.06	78	19577939	50.52	ug/L	98
33) Dibromomethane	3.58	93	3880995	50.37	ug/L	99
34) 1,2-Dichloropropane	3.64	63	5908048	51.52	ug/L	99
35) Trichloroethene	3.36	95	5426411	47.84	ug/L	99
36) Bromodichloromethane	3.66	83	8878448	49.24	ug/L	99
37) 2-Chloroethyl-vinyl-ether	3.97	63	5496461	193.50	ug/L	
38) cis-1,3-Dichloropropene	4.02	75	8547141	50.74	ug/L	91
39) 4-Methyl-2-Pentanone (MIBK)	4.38	43	8017643	114.82	ug/L	
40) trans-1,3-Dichloropropene	4.40	75	7069462	45.07	ug/L	98
41) 1,1,2-Trichloroethane	4.50	83	3376489	46.88	ug/L	95
43) Toluene	4.16	91	18997176	51.09	ug/L	98
44) Ethyl Methacrylate	4.49	69	4149843	48.46	ug/L	98
45) 1,3-Dichloropropane	4.67	76	6873178	53.03	ug/L	99
46) 2-Hexanone	4.90	43	6124447m	135.46	ug/L	
48) Dibromochloromethane	4.61	129	5457905	45.75	ug/L	99
49) 1,2-Dibromoethane (EDB)	4.77	107	4362555	47.29	ug/L	97

(#) = qualifier out of range (m) = manual integration  
 0401004.D 021020RC.M Thu Feb 20 09:30:02 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020\0401004.D  
 Acq On : 20 Feb 2020 8:46 am  
 Sample : LCSD 50PPB  
 Misc : QC

Vial: 4  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

MS Integration Params: EVENTS.E  
 Quant Time: Feb 20 9:25 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene (PCE)	4.39	166	4340481	47.14	ug/L	98
51) 1,1,1,2-Tetrachloroethane	5.15	131	4608034	44.22	ug/L	91
52) Chlorobenzene	5.11	112	12921766	46.77	ug/L	99
53) Ethylbenzene	5.12	91	21254353	46.91	ug/L	98
54) m,p-Xylene	5.22	91	33722991	97.03	ug/L	100
55) o-Xylene	5.52	91	15255918	43.33	ug/L	96
56) Bromoform	5.57	173	2716390	49.08	ug/L #	100
57) Styrene	5.55	104	12017351	47.94	ug/L	95
58) 1,1,2,2-Tetrachloroethane	6.09	83	4649572	47.12	ug/L	100
59) trans-1,4-Dichloro-2-buten	6.22	53	1147289	43.24	ug/L	85
60) 1,2,3-Trichloropropane	6.19	75	3476099	43.71	ug/L	90
61) Isopropylbenzene	5.74	105	17539254	49.82	ug/L	98
63) Bromobenzene	6.02	156	4948423	47.69	ug/L	97
64) n-Propylbenzene	6.04	91	23706399	47.07	ug/L	99
65) 2-Chlorotoluene	6.15	91	16872496	49.40	ug/L	99
66) 4-Chlorotoluene	6.28	126	4617047	50.02	ug/L	89
68) 1,3,5-Trimethylbenzene	6.18	105	13974840	43.67	ug/L	98
69) tert-Butylbenzene	6.42	119	13158990	43.85	ug/L	98
70) 1,2,4-Trimethylbenzene	6.48	105	13543312	44.36	ug/L #	93
71) sec-Butylbenzene	6.56	105	16922209	43.66	ug/L #	98
72) 1,3-Dichlorobenzene	6.72	146	8142486	45.86	ug/L	97
73) 1,4-Dichlorobenzene	6.79	148	5444111	46.10	ug/L	95
74) p-Isopropyltoluene	6.67	119	12973064	48.83	ug/L	98
75) 1,2-Dichlorobenzene	7.12	146	7804688	46.82	ug/L	100
76) n-Butylbenzene	7.00	91	13832562	48.08	ug/L	97
77) 1,2-Dibromo-3-chloropropan	7.75	155	285556	50.52	ug/L	9
78) 1,2,4-Trichlorobenzene	8.32	180	3425186	53.60	ug/L	98
79) Naphthalene	8.59	128	4852546	53.37	ug/L	98
80) Hexachloro-1,3-butadiene	8.30	225	1400976	51.70	ug/L	98
81) 1,2,3-Trichlorobenzene	8.75	180	2856759	56.21	ug/L	97
82) 1-Methylnapthalene	9.62	142	655797	54.09	ug/L	97
83) 2-Methylnapthalene	9.49	142	582087	56.06	ug/L	97



Quantitation Report

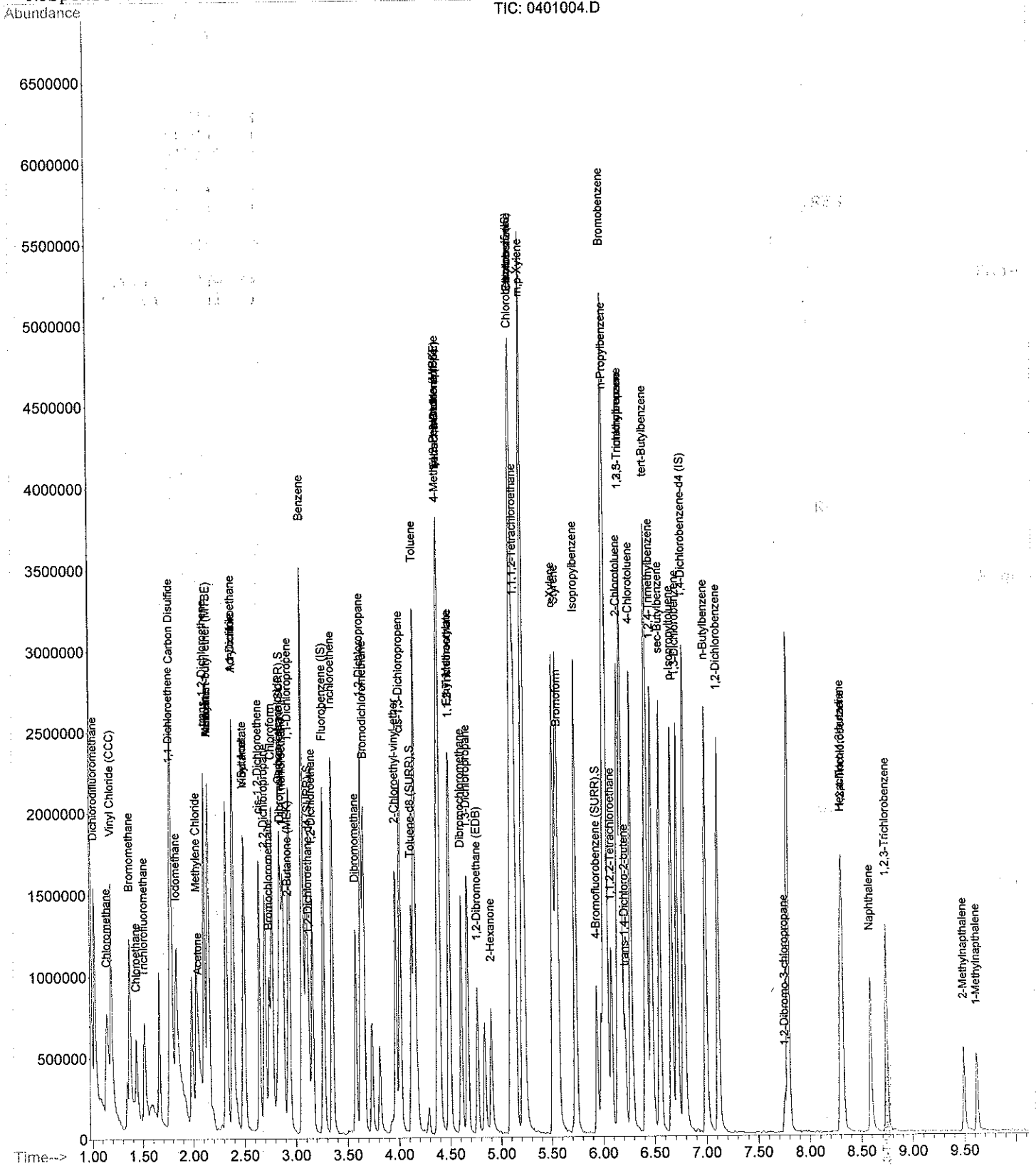
Data File : C:\HPCHEM\1\DATA\022020\0401004.D  
 Acq On : 20 Feb 2020 8:46 am  
 Sample : LCSD 50PPB  
 Misc : QC  
 MS Integration Params: EVENTS.E  
 Quant Time: Feb 20 9:25 2020

Vial: 4  
 Operator: tjg  
 Inst : VOA #1  
 Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration

Page 1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021920\0501005.D  
 Acq On : 19 Feb 2020 11:00 am  
 Sample : MB  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 14:21 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update: Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	779000	50.00	ppb	-0.01
47) Chlorobenzene-d5 (IS)	5.65	117	460362	50.00	ppb	-0.02
67) 1,4-Dichlorobenzene (IS)	7.55	152	160543	50.00	ppb	-0.01

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.17	113	286128	49.55	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	99.10%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	415141	51.46	ppb	-0.01
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.92%
42) Toluene-d8 (SURR)	4.56	98	760889	50.72	ppb	-0.01
Spiked Amount	50.000	Range	61 - 127	Recovery	=	101.44%
62) 4-Bromofluorobenzene (SURR)	6.60	95	282933	46.73	ppb	-0.01
Spiked Amount	50.000	Range	69 - 131	Recovery	=	93.46%

Target Compounds

Qvalue

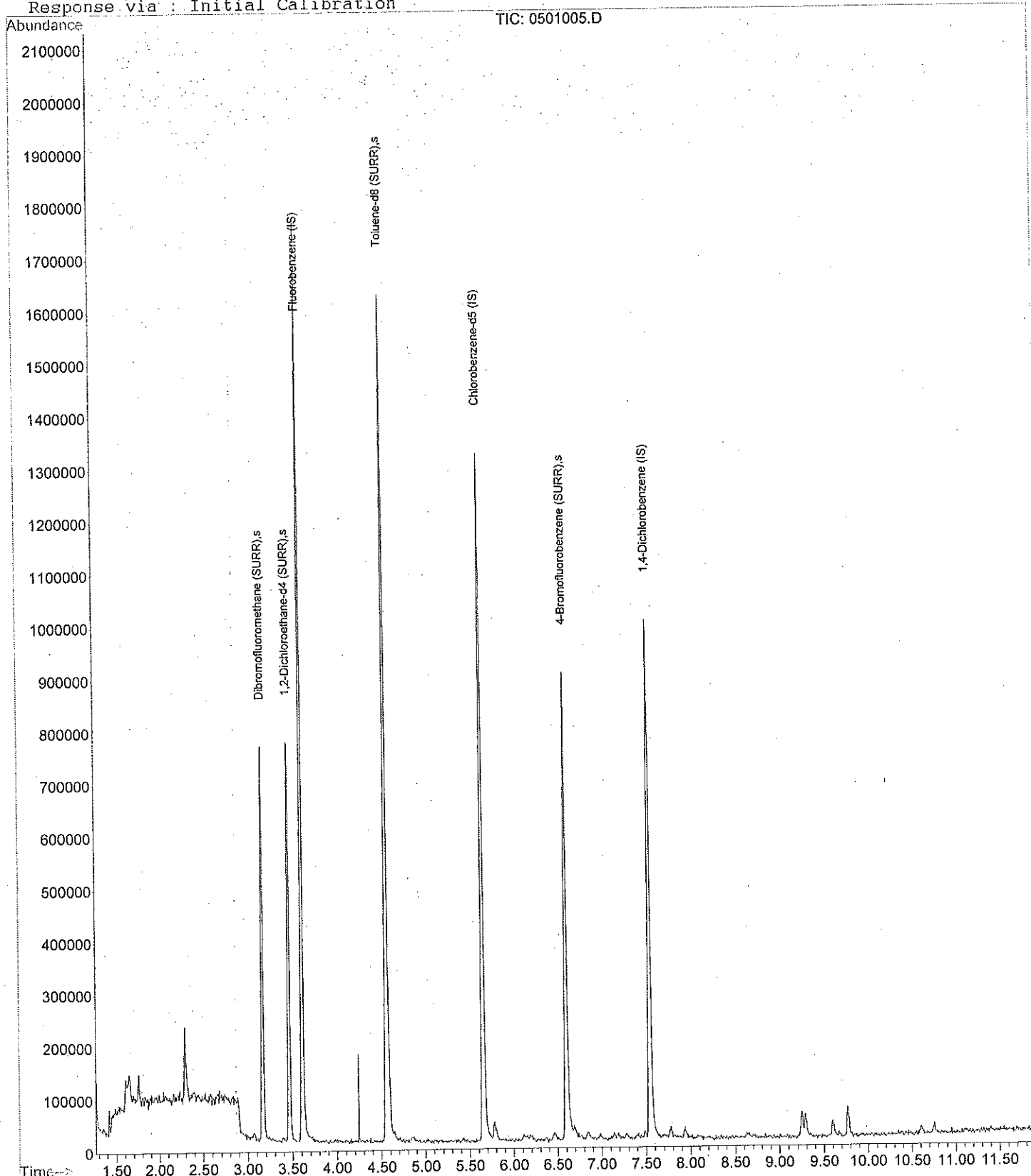
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021920\0501005.D  
Acq On : 19 Feb 2020 11:00 am  
Sample : MB  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 14:21 2020

Vial: 5  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021920\0401004.D  
 Acq On : 19 Feb 2020 10:44 am  
 Sample : LCS 50ppb  
 Misc : 092319 VOC1 curve, 8260.ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 11:04 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	524857	50.00	ppb	-0.01
47) Chlorobenzene-d5 (IS)	5.65	117	433975	50.00	ppb	-0.02
67) 1,4-Dichlorobenzene (IS)	7.54	152	182347	50.00	ppb	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	211084	54.26	ppb	-0.01
Spiked Amount	50.000	Range	54 - 140	Recovery	=	108.52%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	284286	52.30	ppb	-0.01
Spiked Amount	50.000	Range	54 - 138	Recovery	=	104.60%
42) Toluene-d8 (SURR)	4.56	98	482405	47.72	ppb	-0.01
Spiked Amount	50.000	Range	61 - 127	Recovery	=	95.44%
62) 4-Bromofluorobenzene (SURR)	6.60	95	286375	50.18	ppb	-0.02
Spiked Amount	50.000	Range	69 - 131	Recovery	=	100.36%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1116642	53.62	ppb	99
3) Chloromethane	1.40	50	640443	50.80	ppb	98
4) Vinyl Chloride*	1.44	62	848265	58.90	ppb	98
5) Bromomethane	1.62	94	888397	51.79	ppb	99
6) Chloroethane	1.69	64	529839	52.97	ppb	
7) Acrolein	2.39	56	622958	51.98	ppb	98
8) Trichlorofluoromethane	1.76	101	2444469	56.68	ppb	99
9) Acetone	2.32	43	419203	131.97	ppb	96
10) 1,1-Dichloroethene*	2.01	61	1773084	53.29	ppb	98
11) Acrylonitrile	2.65	53	1923321	51.62	ppb	99
12) Iodomethane	2.09	142	833823	58.26	ppb	95
13) Methylene Chloride	2.29	84	734653	52.49	ppb	95
14) Carbon Disulfide	2.04	76	1159483	52.48	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	694689	53.50	ppb	98
16) Methyl-tert-butyl ether* (	2.41	73	1487067	49.34	ppb	98
17) 1,1-Dichloroethane*	2.67	63	2079830	54.06	ppb	99
18) Vinyl Acetate	2.77	43	1188907	51.49	ppb	100
19) N-Hexane	2.39	57	1150104	50.04	ppb	98
20) N-Butanol	2.76	57	616701	52.22	ppb	99
21) 2-Butanone (MEK)	3.23	43	413008	122.06	ppb	# 98
22) cis-1,2-Dichloroethene*	2.94	61	1230965	52.54	ppb	96
23) Bromochloromethane	3.04	128	205421	57.66	ppb	79
24) Chloroform*	3.07	83	1620171	51.93	ppb	100
25) 2-2-Dichloropropane	2.99	77	1682091	52.26	ppb	99
28) 1,2-Dichloroethane	3.50	62	1195440	47.20	ppb	96
29) 1,1,1-Trichloroethane*	3.19	97	1752697	53.83	ppb	98
30) 1,1-Dichloropropene	3.25	75	1170964	56.21	ppb	99
31) Carbon Tetrachloride	3.15	117	1607403	54.19	ppb	99
32) Benzene*	3.39	78	2203930	58.17	ppb	95
33) Dibromomethane	3.96	93	366585	49.30	ppb	97
34) 1,2-Dichloropropane	4.02	63	569038	54.74	ppb	95
35) Trichloroethene*	3.70	95	758707	53.58	ppb	95
36) Bromodichloromethane	4.04	83	1125858	52.20	ppb	97
37) 2-Chloroethyl-vinyl ether	4.38	63	498558	191.88	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	888228	53.44	ppb	92
39) 4-Methyl-2-Pentanone (MIBK)	4.83	43	915917	120.32	ppb	96
40) trans-1,3-Dichloropene	4.86	75	812787	51.44	ppb	90
41) 1,1,2-Trichloroethane	4.97	83	298734	50.14	ppb	97
43) Toluene*	4.59	91	2511191	55.95	ppb	99
44) Ethyl Methacrylate	4.95	69	59330	41.68	ppb	# 92
45) 1,3-Dichloropropane	5.17	76	630469	50.50	ppb	98
46) 2-Hexanone	5.41	43	673671	130.40	ppb	98
48) Dibromochloromethane	5.11	129	513786	47.70	ppb	100
49) 1,2-Dibromoethane (EDB)	5.29	107	375803	46.30	ppb	97

(#) = qualifier out of range (m) = manual integration  
 0401004.D 011820RC.M Thu Feb 20 09:52:45 2020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021920\0401004.D  
 Acq On : 19 Feb 2020 10:44 am  
 Sample : LCS-50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 19 11:04 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	405835	42.22	ppb	
51) 1,1,1,2-Tetrachloroethane*	5.70	131	516819	49.96	ppb	99
52) Chlorobenzene*	5.66	112	1522458	50.93	ppb	94
53) Ethyl Benzene*	5.67	91	3486055	52.98	ppb	95
54) m,p-Xylene	5.77	91	5566686	105.95	ppb	96
55) o-Xylene*	6.11	106	1009677	54.47	ppb	92
56) Bromoform	6.19	173	216386	45.66	ppb	99
57) Styrene	6.16	104	1425356	51.22	ppb	95
58) 1,1,2,2-Tetrachloroethane	6.75	85	248305	43.38	ppb	99
59) trans-1,4-Dichloro-2-buten	6.90	53	153947	41.01	ppb	96
60) 1,2,3-Trichloropropane	6.87	75	551412m	45.78	ppb	
61) Isopropylbenzene	6.35	105	3375255	55.85	ppb	98
63) Bromobenzene	6.69	156	453068	51.20	ppb	89
64) N-Propylbenzene*	6.69	91	4460206	51.48	ppb	99
65) 2-Chlorotoluene	6.84	91	2835277	49.58	ppb	99
66) 4-Chlorotoluene	6.97	126	522990	49.87	ppb	96
68) 1,3,5-Trimethylbenzene	6.85	105	2818145	50.62	ppb	97
69) tert-butylbenzene	7.12	119	2546887	51.40	ppb	96
70) 1,2,4-Trimethylbenzene	7.18	105	2760779	50.60	ppb	98
71) sec-Butylbenzene	7.28	105	3876516	53.12	ppb	100
72) 1,3-Dichlorobenzene	7.48	146	896720	49.88	ppb	98
73) 1,4-Dichlorobenzene	7.55	148	555749	48.91	ppb	98
74) p-Isopropyltoluene	7.40	119	2861882	52.49	ppb	97
75) 1,2-Dichlorobenzene	7.93	146	751554	48.85	ppb	97
76) N-Butylbenzene	7.77	91	3457089	49.92	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.65	155	34615	45.01	ppb	85
78) 1,2,4-Trichlorobenzene	9.29	180	521727	47.45	ppb	99
79) Naphthalene	9.59	128	781457	47.94	ppb	99
80) Hexachloro-1,3-butadiene	9.25	225	312535	46.91	ppb	98
81) 1,2,3-Trichlorobenzene	9.77	180	419855	46.99	ppb	98
82) 1-Methylnaphthalene	10.75	142	311305	50.44	ppb	98
83) 2-Methylnaphthalene	10.60	142	378760	47.45	ppb	95

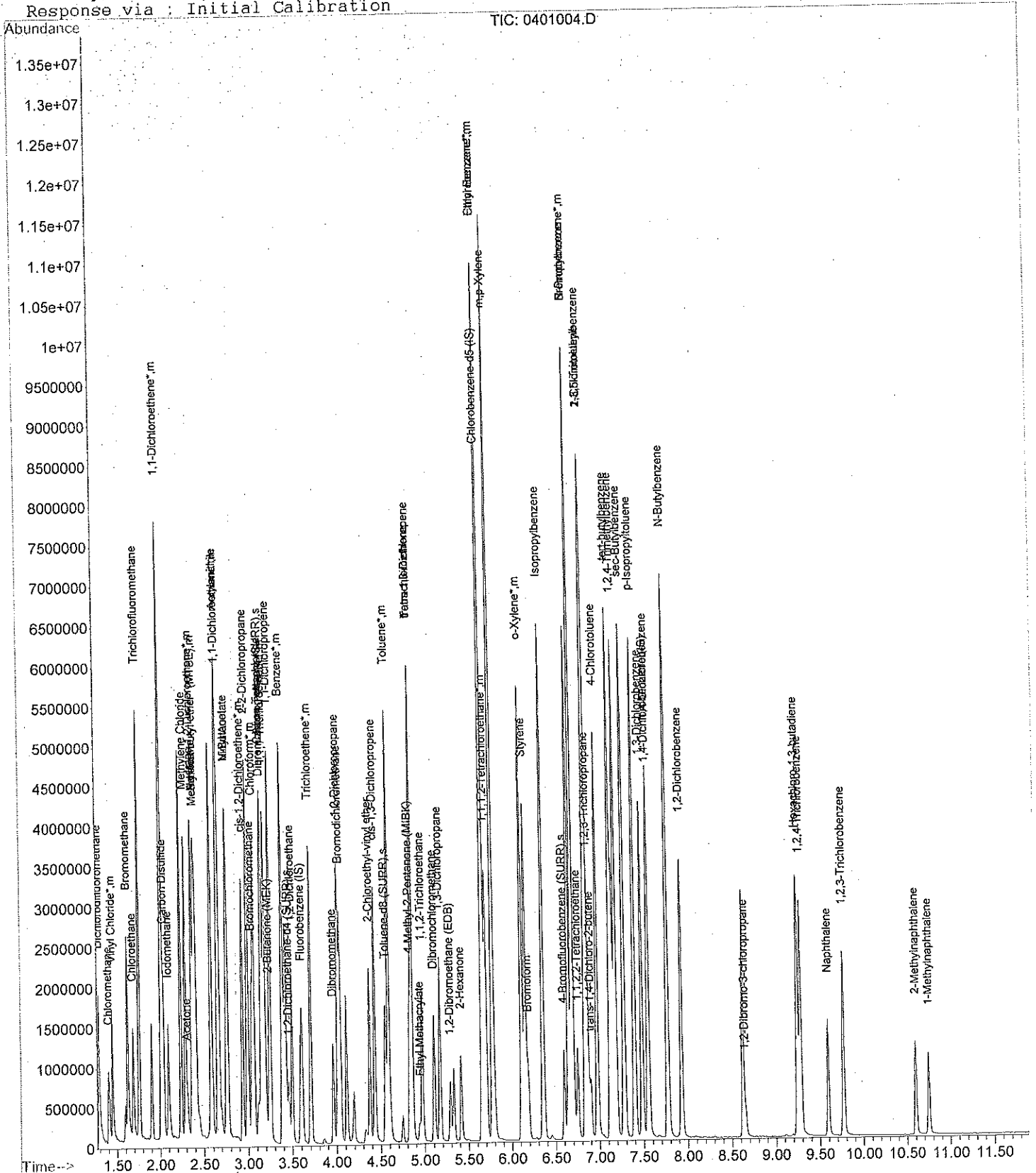
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021920\0401004.D  
Acq On : 19 Feb 2020 10:44 am  
Sample : LCS 50ppb  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 19 11:04 2020

Vial: 4  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





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## 8260 VOC

- Raw Sample Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020\0801008.D  
 Acq On : 20 Feb 2020 9:54 am  
 Sample : 20-2337 RUSH TB  
 Misc : A

Vial: 8  
 Operator: tjj  
 Inst : VOA #1  
 Multiplr: 1.00

8.00 9.00 9.50

MS Integration Params: EVENTS.E  
 Quant Time: Feb 20 10:10 2020

Quant Results File: 021020RC.RES

Quant Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Feb 11 10:03:53 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOC2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.27	96	8609680	50.00	ug/L	-0.01
47) Chlorobenzene-d5 (IS)	5.10	117	5520085	50.00	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4 (IS)	6.78	150	2981918	50.00	ug/L	-0.01

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	2.86	113	2988641	48.83	ug/L	-0.01
Spiked Amount	50.000	Range	74 - 132	Recovery	=	97.66%
27) 1,2-Dichloroethane-d4 (SUR)	3.13	65	3776823	49.54	ug/L	-0.01
Spiked Amount	50.000	Range	77 - 134	Recovery	=	99.08%
42) Toluene-d8 (SURR)	4.13	98	7968277	53.06	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 130	Recovery	=	106.12%
62) 4-Bromofluorobenzene (SURR)	5.94	95	2643092	46.93	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 133	Recovery	=	93.86%

Target Compounds

Qvalue



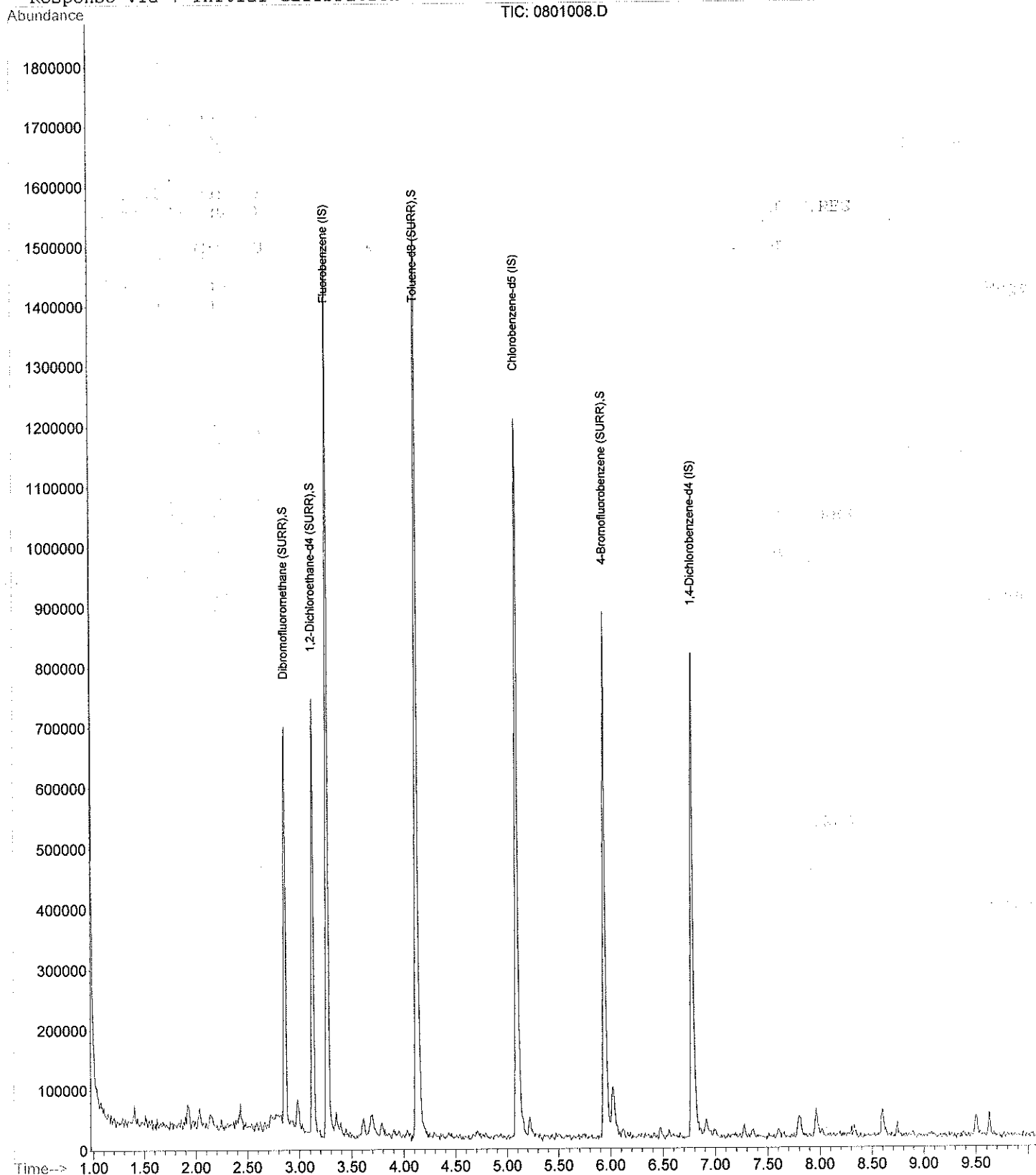
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020\0801008.D  
Acq On : 20 Feb 2020 9:54 am  
Sample : 20-2337 RUSH TB  
Misc : A  
MS Integration Params: EVENTS.E  
Quant Time: Feb 20 10:10 2020

Vial: 8  
Operator: tjg  
Inst : VOA #1  
Multiplr: 1.00

Quant Results File: 021020RC.RES

Method : C:\HPCHEM\1\METHODS\021020RC.M (Chemstation Integrator)  
Title :  
Last Update : Tue Feb 11 10:03:53 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021920\2101021.D  
 Acq On : 19 Feb 2020 4:16 pm  
 Sample : 2338 rush  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 9:28 2020

Vial: 21  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	1011661	50.00	ppb	-0.01
47) Chlorobenzene-d5 (IS)	5.66	117	716449	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	275101	50.00	ppb	-0.01

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.17	113	370733	49.44	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	98.88%		
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	504272	48.13	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	96.26%		
42) Toluene-d8 (SURR)	4.56	98	1119328	57.45	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	114.90%		
62) 4-Bromofluorobenzene (SURR)	6.60	95	427588	45.38	ppb	-0.01
Spiked Amount	50.000	Range 69 - 131	Recovery =	90.76%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
35) Trichloroethene*	3.71	95	167621	6.14	ppb	94
50) Tetrachloroethene	4.86	166	351644	22.16	ppb	95

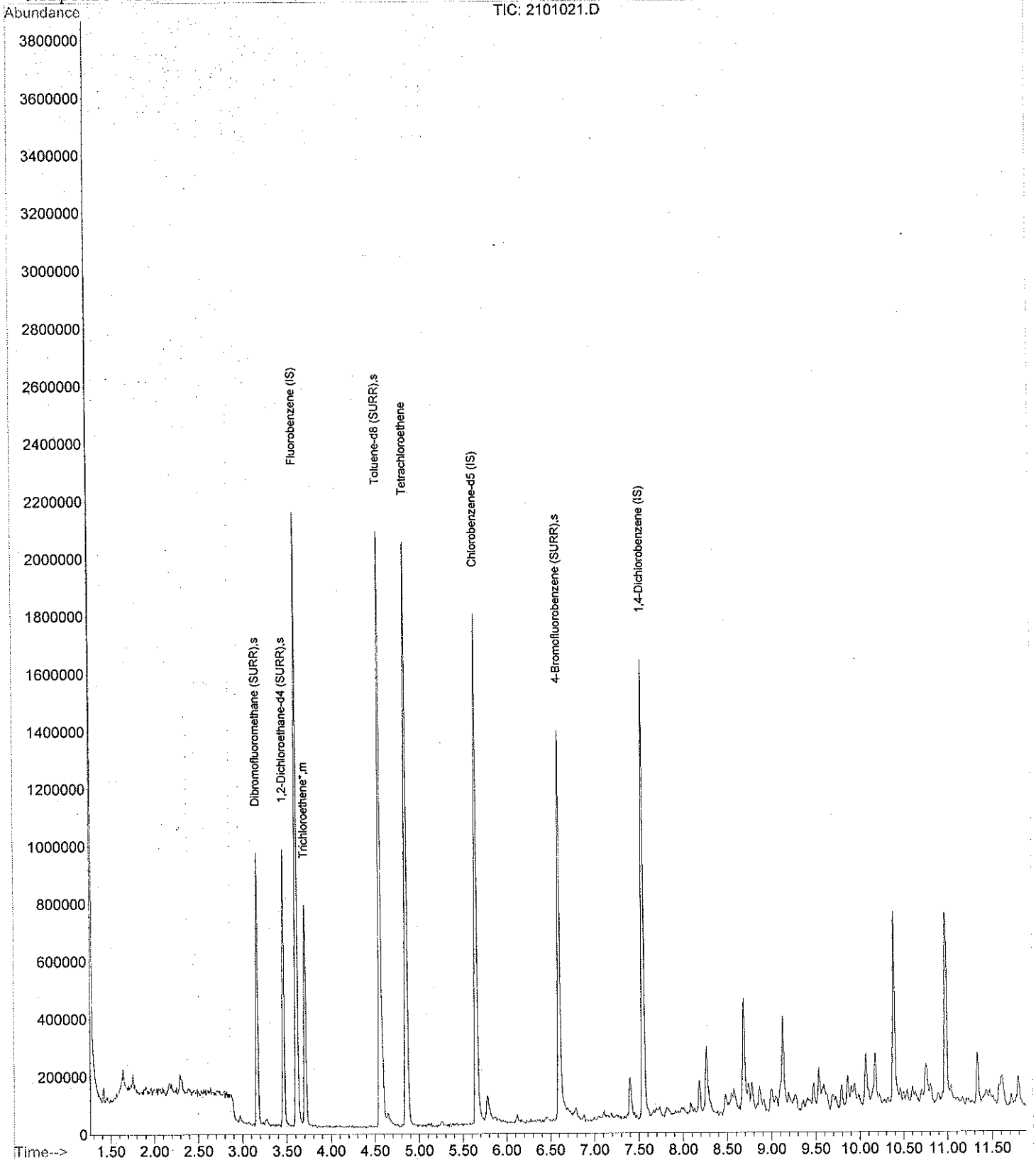
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021920\2101021.D  
Acq On : 19 Feb 2020 4:16 pm  
Sample : 2338 rush  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 9:28 2020

Vial: 21  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021920\2201022.D  
 Acq On : 19 Feb 2020 4:33 pm  
 Sample : 2339 rush  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 9:28 2020

Vial: 22  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	1037595	50.00	ppb	-0.01
47) Chlorobenzene-d5 (IS)	5.65	117	649195	50.00	ppb	-0.02
67) 1,4-Dichlorobenzene (IS)	7.55	152	245789	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.17	113	371190	48.26	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	96.52%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	511556	47.61	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	95.22%
42) Toluene-d8 (SURR)	4.56	98	1056891	52.89	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	105.78%
62) 4-Bromofluorobenzene (SURR)	6.60	95	391831	45.90	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	91.80%

Target Compounds Qvalue

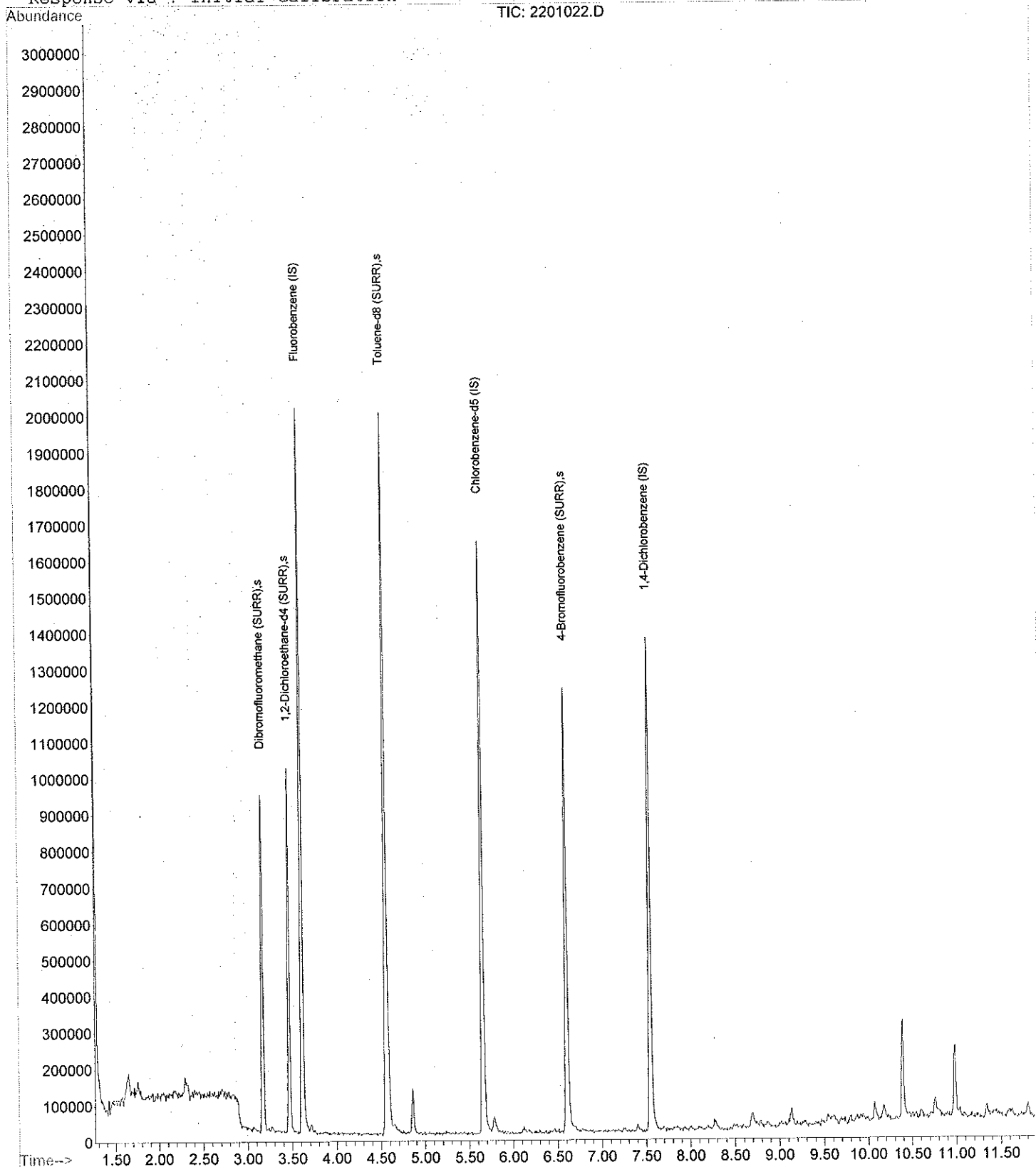
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021920\2201022.D  
Acq On : 19 Feb 2020 4:33 pm  
Sample : 2339 rush  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 9:28 2020

Vial: 22  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021920\2301023.D  
 Acq On : 19 Feb 2020 4:49 pm  
 Sample : 2340 rush  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 9:29 2020

Vial: 23  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	944928	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.65	117	548959	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	188202	50.00	ppb	-0.01
System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.17	113	333490	47.61	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	95.22%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	449452	45.93	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	91.86%
42) Toluene-d8 (SURR)	4.56	98	931585	51.19	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	102.38%
62) 4-Bromofluorobenzene (SURR)	6.61	95	320315	44.37	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	88.74%
Target Compounds						Qvalue
35) Trichloroethene*	3.71	95	95552	3.75	ppb	89
50) Tetrachloroethene	4.86	166	239359	19.69	ppb	93

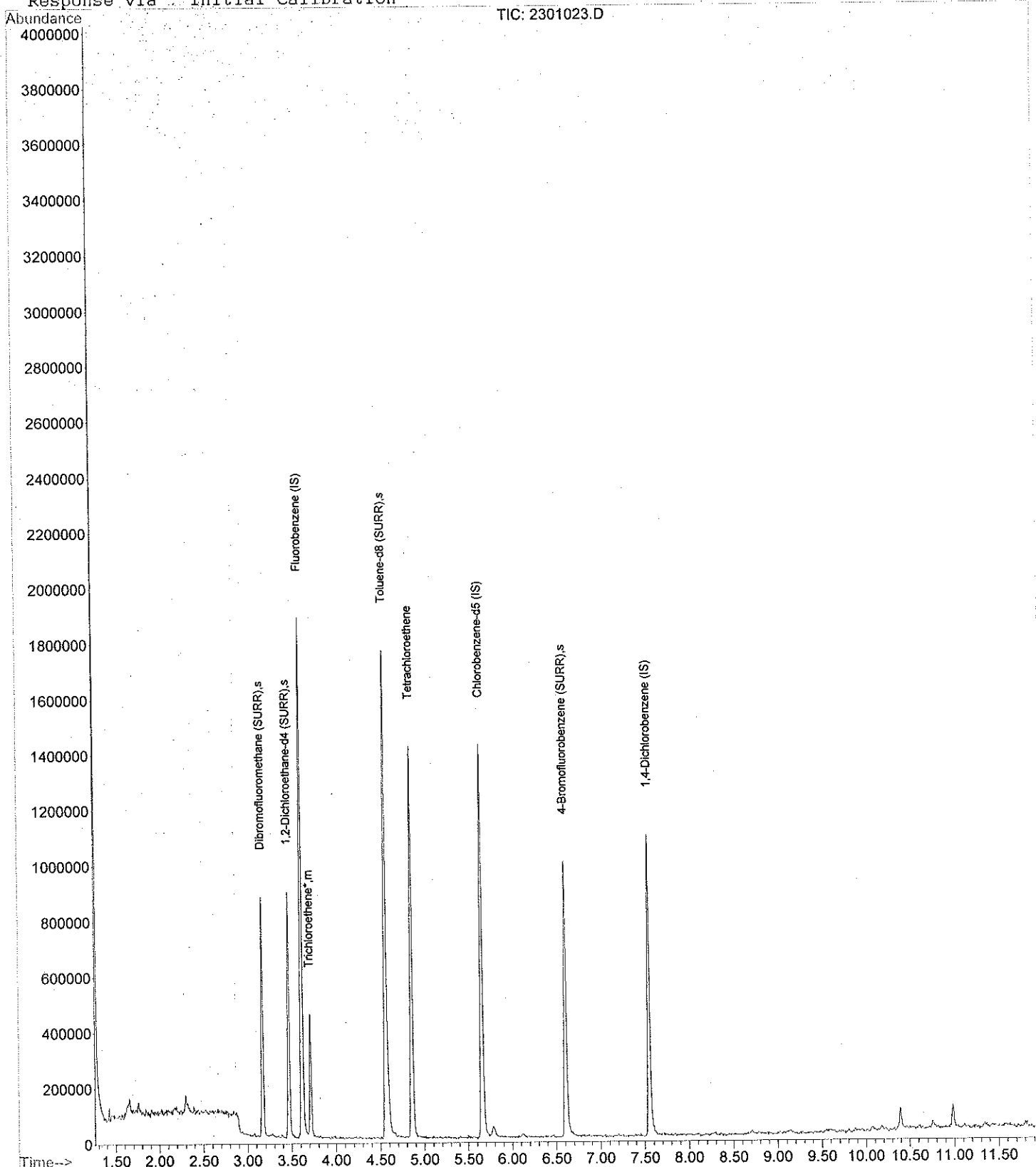
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021920\2301023.D  
Acq On : 19 Feb 2020 4:49 pm  
Sample : 2340 rush  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 9:29 2020

Vial: 23  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\021920\2401024.D Vial: 24  
 Acq On : 19 Feb 2020 5:06 pm Operator: gjd  
 Sample : 2341 rush Inst : VOC 1  
 Misc : 092319 VOC1 curve, 8260 ical Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 9:29 2020 Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	971841	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.65	117	562622	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	191969	50.00	ppb	-0.01

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.17	113	346673	48.12	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	96.24%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	484553	48.15	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	96.30%
42) Toluene-d8 (SURR)	4.56	98	965234	51.57	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	103.14%
62) 4-Bromofluorobenzene (SURR)	6.61	95	333558	45.08	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	90.16%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
35) Trichloroethene*	3.71	95	90514	3.45	ppb	93
50) Tetrachloroethene	4.86	166	164056	13.17	ppb	90



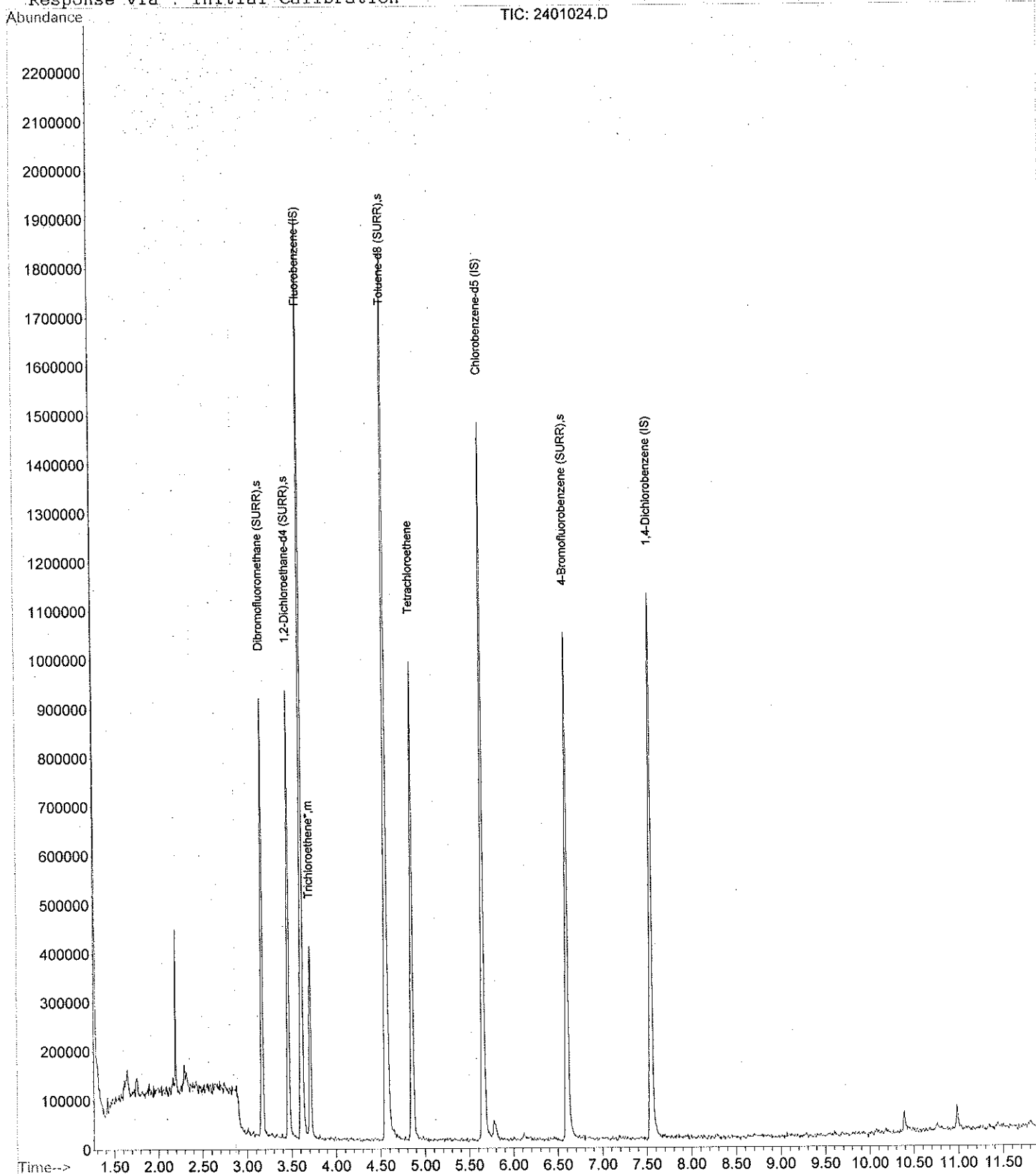
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021920\2401024.D  
Acq On : 19 Feb 2020 5:06 pm  
Sample : 2341 rush  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 9:29 2020

Vial: 24  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEN\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\021920\2501025.D  
 Acq On : 19 Feb 2020 5:22 pm  
 Sample : 2342 rush  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 9:29 2020

Vial: 25  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 011820RC.RES

Quant Method : C:\HPCHEM\MSEXEX\011820RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Mon Jan 20 08:50:34 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	975218	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.65	117	601977	50.00	ppb	-0.01
67) 1,4-Dichlorobenzene (IS)	7.55	152	216586	50.00	ppb	-0.01
<b>System Monitoring Compounds</b>						
26) Dibromofluoromethane (SURR)	3.17	113	350351	48.47	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	96.94%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	491195	48.64	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	97.28%
42) Toluene-d8 (SURR)	4.56	98	972038	51.75	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	103.50%
62) 4-Bromofluorobenzene (SURR)	6.60	95	345190	43.60	ppb	-0.01
Spiked Amount	50.000	Range	69 - 131	Recovery	=	87.20%
<b>Target Compounds</b>						<b>Qvalue</b>
35) Trichloroethene*	3.71	95	247108	9.39	ppb	92
50) Tetrachloroethene	4.86	166	591917	44.40	ppb	96

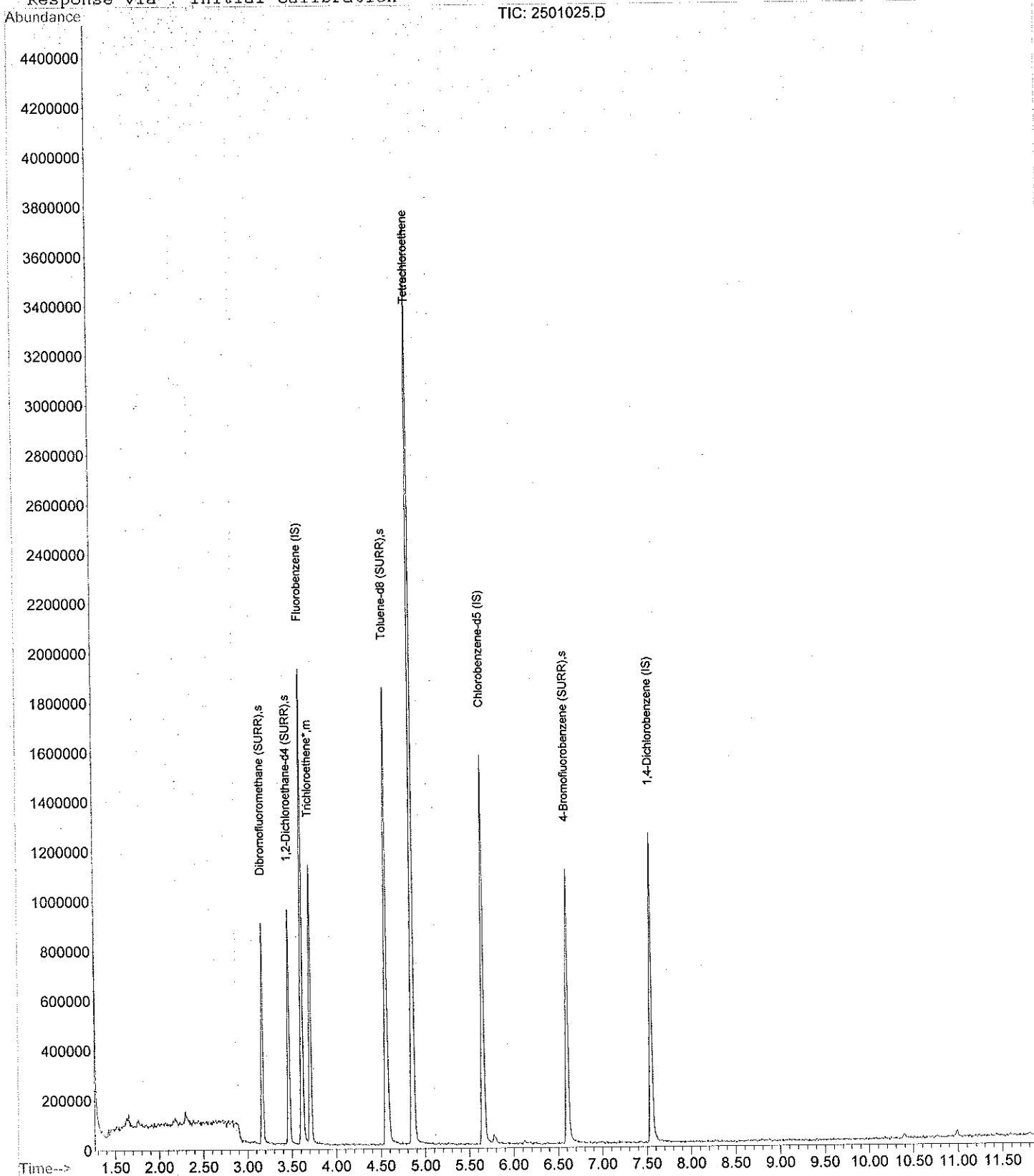
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021920\2501025.D  
Acq On : 19 Feb 2020 5:22 pm  
Sample : 2342 rush  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 9:29 2020

Vial: 25  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 011820RC.RES

Method : C:\HPCHEM\MSEXEXE\011820RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Mon Jan 20 08:50:34 2020  
Response via : Initial Calibration





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[www.envisionlaboratories.com](http://www.envisionlaboratories.com)

Mr. Chuck Goodwin  
Ramboll  
One Indiana Square  
Suite 2335  
Indianapolis, IN 46204

February 25, 2020

ENVision Project Number: 2020-404  
Client Project Name: Reed Manufacturing

Dear Mr. Goodwin,

Please find the attached analytical report for the samples received February 24, 2020. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1. All soils collected via Method 5035A are frozen at the laboratory upon receipt.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

David Norris

Client Services Manager  
ENVision Laboratories, Inc.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-404

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 022520BVS

**Client Sample ID:** BACKFILL-1      **Sample Collection Date/Time:** 2/24/20 14:14  
**Envision Sample Number:** 20-2676      **Sample Received Date/Time:** 2/24/20 17:15  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.112	0.112	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.056	0.056	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.056	0.056	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.112	0.112	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	108%		
1,2-Dichloroethane-d4 (surrogate)	99%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	2-25-20/11:18		
Analyst Initials	gjd		

Percent Solids: 89%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-404

**Client Sample ID:** BACKFILL-1      **Sample Collection Date/Time:** 2/24/20      14:14  
**Envision Sample Number:** 20-2676      **Sample Received Date/Time:** 2/24/20      17:15  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	2/25/20		
Analyst Initials	ajg		



**EPA 8260 Quality Control Data**

ENVision Batch Number: 022520BVS

<b><u>Method Blank (MB):</u></b>	<b><u>MB Results (ug/kg)</u></b>	<b><u>Rep Lim (ug/kg)</u></b>	<b><u>Flag</u></b>
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	





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 Fax: 317.351.8639  
 www.envisionlaboratories.com

**8260 QC Continued...**

<u>Method Blank (MB)</u>	<u>MB Results (ug/kg)</u>	<u>Rep Lim (ug/kg)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	100%		
1,2-Dichloroethane-d4 (surrogate)	102%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	2-25-20/11:01		
Analyst Initials	gjd		



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8260 QC Continued...

<u>LCS/LCSD:</u>	<u>LCS Results (ug/kg)</u>	<u>LCS/LCSD Conc. (ug/kg)</u>	<u>LCSD Result (ug/kg)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	51.7	50	50.9	103%	102%	1.6	
1,1-Dichloroethene	53.7	50	51.2	107%	102%	4.8	
trans-1,2-Dichloroethene	52.3	50	51.5	105%	103%	1.5	
Methyl-tert-butyl ether	49.8	50	51.6	100%	103%	3.6	
1,1-Dichloroethane	49.8	50	51.3	100%	103%	3.0	
cis-1,2-Dichloroethene	52.1	50	49.3	104%	99%	5.5	
Chloroform	54.0	50	49.6	108%	99%	8.5	
1,1,1-Trichloroethane	53.1	50	50.1	106%	100%	5.8	
Benzene	49.8	50	49.7	100%	99%	0.2	
Trichloroethene	51.0	50	50.0	102%	100%	2.0	
Toluene	51.8	50	49.8	104%	100%	3.9	
1,1,1,2-Tetrachloroethane	49.1	50	52.3	98%	105%	6.3	
Chlorobenzene	48.7	50	50.2	97%	100%	3.0	
Ethylbenzene	51.3	50	52.0	103%	104%	1.4	
o-Xylene	50.5	50	52.4	101%	105%	3.7	
n-Propylbenzene	52.4	50	52.2	105%	104%	0.4	
Dibromofluoromethane (surrogate)	103%		116%				
1,2-Dichloroethane-d4 (surrogate)	106%		111%				
Toluene-d8 (surrogate)	109%		116%				
4-bromofluorobenzene (surrogate)	96%		105%				
Analysis Date/Time:	2-25-20/10:28		2-25-20/10:45				
Analyst Initials	gjd		gjd				



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**Flag Number**

1

**Comments**

Reported value is below the reporting limit but above the MDL.



## 5035 CHECK-IN SHEET

Client Name: RAMBOLL

ENVision project#: 2020-404

Cooler Temp: 4 °C

Method 5035A used: YES  NO

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES  NO

5035A samples were received within 48 hrs of collection: YES  NO

5035A samples were frozen within 48 hrs of collection by lab: YES  NO   
If NO, did client freeze samples? YES  NO

5035A Table A.1 Reference:  
Sample is extruded into an empty sealed vial and cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$  for no more than 48 hours then frozen to  $< -7^{\circ}\text{C}$  upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES  NO

5035A Table A.1 Reference:  
Sample is extruded into an empty sealed vial and cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$  for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: LISA LAWSON 02-24-20



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8260 VOC  
Package Review

ENVision Project#: 2020-404

- Sequence Log
- 8260 Soil / Water Limits

Initial Calibration Data

Calibration Curve: 022020RC VOC 1 ✓

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- NA Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Raw Sample Data (if applicable -- Level IV)

*The contents of this Level QA/QC package have been reviewed for completeness and compliance with method requirements.*

QA Manager Signature of approval: *Cheryl Crum*



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## 8260 VOC

- Sequence Log
- 8260 Soil / Water Limits

# Injection Log

Directory: C:\HPCHEM\1\DATA\022520B

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	25 Feb 2020 10:11
2	2	0201002.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	25 Feb 2020 10:28
3	3	0301003.D	1.	LCS 50ppb	092319 VOC1 curve, 8260 ical	25 Feb 2020 10:45
4	4	0401004.D	1.	MB	092319 VOC1 curve, 8260 ical	25 Feb 2020 11:01
5	5	0501005.D	1.	2676 rush ✓	092319 VOC1 curve, 8260 ical	25 Feb 2020 11:18
6	6	0601006.D	1.	2234	092319 VOC1 curve, 8260 ical	25 Feb 2020 11:35
7	7	0701007.D	1.	2660	092319 VOC1 curve, 8260 ical	25 Feb 2020 11:51
8	8	0801008.D	1.	2661	092319 VOC1 curve, 8260 ical	25 Feb 2020 12:08
9	9	0901009.D	1.	2662	092319 VOC1 curve, 8260 ical	25 Feb 2020 12:25
10	10	1001010.D	1.	2663	092319 VOC1 curve, 8260 ical	25 Feb 2020 12:42
11	11	1101011.D	1.	2664	092319 VOC1 curve, 8260 ical	25 Feb 2020 12:59
12		1201012.D	1.			





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8260 Volatiles Statistical Control Limits - Effective 11/2016

Surrogate	Water Limits % Rec.	Soil Limits % Rec.
Dibromofluoromethane (surrogate)	73-125	72-128
1,2-Dichloroethane-d4 (surrogate)	74-124	71-129
Toluene-d8 (surrogate)	73-126	70-128
4-bromofluorobenzene (surrogate)	75-125	74-127

LCS	Water Limits % Rec.	Soil Limits % Rec.
Vinyl Chloride	79-127	76-132
1,1-Dichloroethene	79-122	75-123
trans-1,2-Dichloroethene	79-125	72-123
Methyl-tert-butyl-ether	71-122	75-128
1,1-Dichloroethane	78-120	72-122
cis-1,2-Dichloroethene	78-121	76-122
Chloroform	77-120	79-125
1,1,1-Trichloroethane	72-122	75-129
Benzene	78-127	72-126
Trichloroethene	79-120	72-122
Toluene	79-122	73-120
1,1,1,2-Tetrachloroethane	76-121	72-121
Chlorobenzene	79-125	73-127
Ethylbenzene	79-122	74-125
o-Xylene	78-122	79-129
N-propylbenzene	78-125	76-128

MS/MSD	Water Limits % Rec.	Soil Limits % Rec.
Vinyl Chloride	78-12	72-136
1,1-Dichloroethene	79-123	73-127
trans-1,2-Dichloroethene	79-125	62-129
Methyl-tert-butyl-ether	71-122	64-124
1,1-Dichloroethane	77-124	71-123
cis-1,2-Dichloroethene	79-122	78-127
Chloroform	79-121	69-122
1,1,1-Trichloroethane	70-122	69-122
Benzene	78-130	78-127
Trichloroethene	78-124	79-122
Toluene	78-126	65-147
1,1,1,2-Tetrachloroethane	79-120	71-121
Chlorobenzene	79-123	75-113
Ethylbenzene	78-120	72-114
o-Xylene	77-122	75-126
N-propylbenzene	77-120	74-122



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## 8260 VOC Initial Calibration Data

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

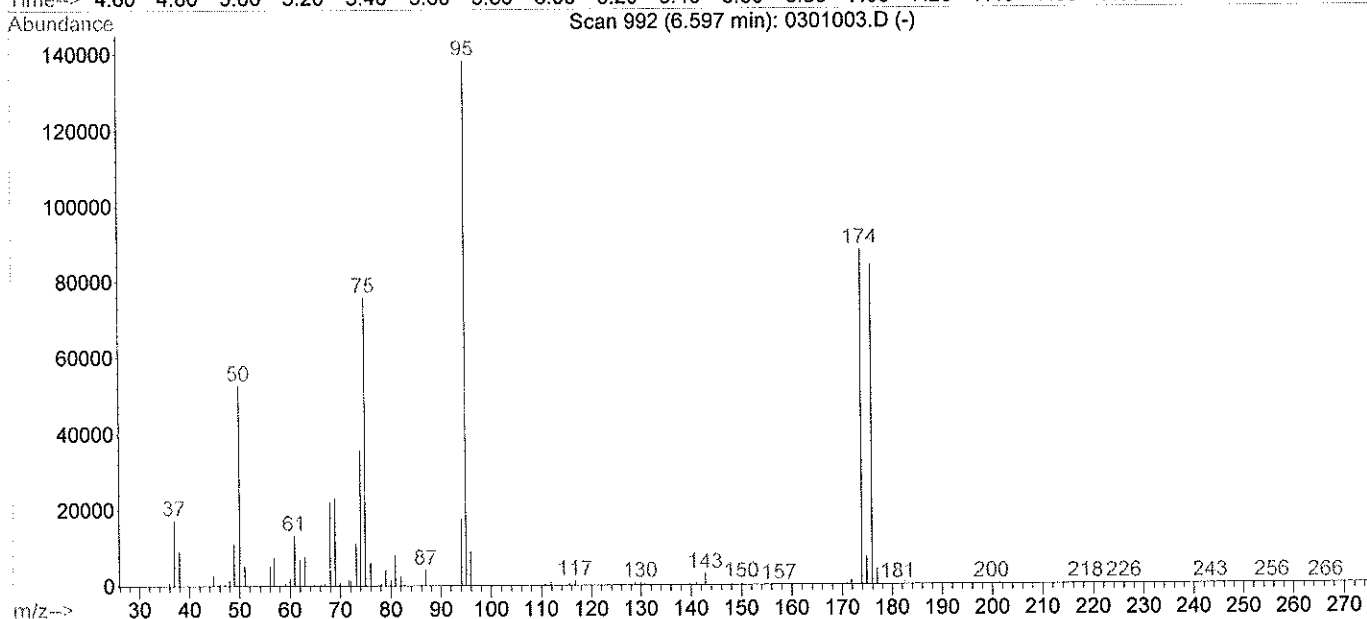
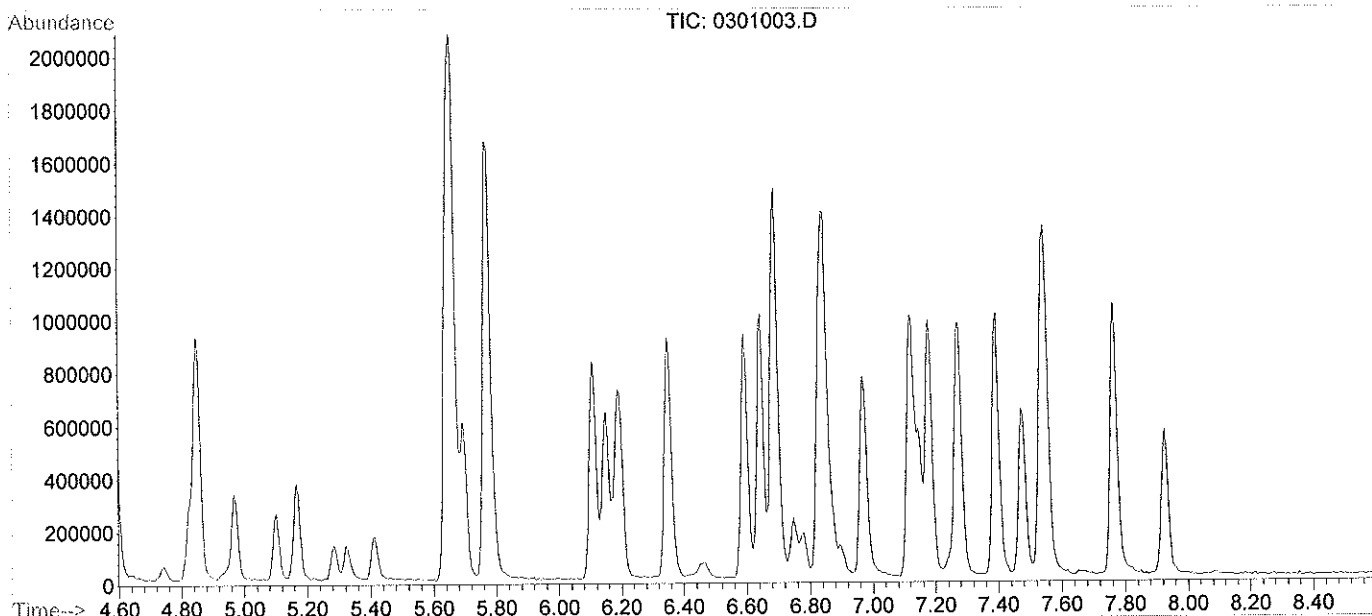
# Injection Log

Directory: C:\HPCHEM\1\DATA\022020C  
*022020RC - VOC1*

*8260 CURVE*

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	1ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 10:54
2	2	0201002.D	1.	5ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 11:10
3	3	0301003.D	1.	10ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 11:27
4	4	0401004.D	1.	20ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 11:44
5	5	0501005.D	1.	50ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 12:01
6	6	0601006.D	1.	100ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 12:18
7	7	0701007.D	1.	200ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 12:34
8	8	0801008.D	1.	50ppb ICV 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 12:51
9	9	0901009.D	1.	MB	092319 VOC1 curve, 8260 ical	20 Feb 2020 13:08
10	10	1001010.D	1.	2405	092319 VOC1 curve, 8260 ical	20 Feb 2020 13:25
11	11	1101011.D	1.	2285	092319 VOC1 curve, 8260 ical	20 Feb 2020 13:42
12	12	1201012.D	1.	2286	092319 VOC1 curve, 8260 ical	20 Feb 2020 13:59
13	13	1301013.D	1.	2287	092319 VOC1 curve, 8260 ical	20 Feb 2020 14:16
14	14	1401014.D	1.	2288	092319 VOC1 curve, 8260 ical	20 Feb 2020 14:33
15	15	1501015.D	1.	2289	092319 VOC1 curve, 8260 ical	20 Feb 2020 14:50
16	16	1601016.D	1.	2290	092319 VOC1 curve, 8260 ical	20 Feb 2020 15:06
17	17	1701017.D	1.	2291	092319 VOC1 curve, 8260 ical	20 Feb 2020 15:23
18	18	1801018.D	1.	2292	092319 VOC1 curve, 8260 ical	20 Feb 2020 15:40
19	19	1901019.D	1.	2293	092319 VOC1 curve, 8260 ical	20 Feb 2020 15:57
20	20	2001020.D	1.	2294	092319 VOC1 curve, 8260 ical	20 Feb 2020 16:14
21	21	2101021.D	1.	2295	092319 VOC1 curve, 8260 ical	20 Feb 2020 16:31
22	22	2201022.D	1.	2296	092319 VOC1 curve, 8260 ical	20 Feb 2020 16:48
23	23	2301023.D	1.	2343	092319 VOC1 curve, 8260 ical	20 Feb 2020 17:04
24	24	2401024.D	1.	2344	092319 VOC1 curve, 8260 ical	20 Feb 2020 17:21
25	25	2501025.D	1.	2345	092319 VOC1 curve, 8260 ical	20 Feb 2020 17:38
26	26	2601026.D	1.	2346	092319 VOC1 curve, 8260 ical	20 Feb 2020 17:55
27	27	2701027.D	1.	2347	092319 VOC1 curve, 8260 ical	20 Feb 2020 18:12
28	28	2801028.D	1.	2348	092319 VOC1 curve, 8260 ical	20 Feb 2020 18:29
29	29	2901029.D	1.	2349	092319 VOC1 curve, 8260 ical	20 Feb 2020 18:45

Data File : C:\HPCHEM\1\DATA\022020C\0301003.D Vial: 3  
 Acq On : 20 Feb 2020 11:27 am Operator: gjd  
 Sample : 10ppb 8260 ical Inst : VOC 1  
 Misc : 092319 VOC1 curve, 8260 ical Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration



Spectrum Information: Scan 992

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	38.2	52725	PASS
75	95	30	60	54.8	75758	PASS
95	95	100	100	100.0	138153	PASS
96	95	5	9	6.5	9046	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.8	88168	PASS
175	174	5	9	8.2	7262	PASS
176	174	95	101	95.2	83928	PASS
177	176	4	9	5.0	4209	PASS

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration

Calibration Files  
 20 =0401004.D 50 =0501005.D 100 =0601006.D  
 200 =0701007.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
-----ISTD-----								
1) Fluorobenzene (IS)								
2) Dichlorodifluoromet	1.463	1.524	1.563	1.485	1.197	1.251	1.414	10.73
3) Chloromethane	0.866	0.884	0.983	0.979	0.862	0.710	0.881	11.36
4) m Vinyl Chloride*	1.090	1.209	1.209	1.209	1.140	0.980	1.139	8.07
5) Bromomethane	1.047	1.135	1.116	0.988	1.257	0.982	1.088	9.57
6) Chloroethane	0.710	0.789	0.813	0.736	0.766	0.631	0.741	8.78
7) Acrolein	0.757	0.857	0.865	0.795	0.775	0.684	0.789	8.54
8) Trichlorofluorometh	2.819	3.090	3.267	2.858	2.678	2.467	2.863	9.97
9) Acetone	0.250	0.268	0.254	0.251	0.249	0.218	0.248	6.67
10) m 1,1-Dichloroethene*	2.098	2.345	2.416	2.269	1.994	1.905	2.171	9.38
11) Acrylonitrile	2.245	2.470	2.567	2.434	2.118	1.989	2.304	9.72
12) Iodomethane	0.969	1.197	1.261	1.266	1.130	0.992	1.136	11.49
13) Methylene Chloride	1.013	1.047	1.041	0.965	1.265	1.063	1.066	9.69
14) Carbon Disulfide	1.343	1.539	1.623	1.613	1.432	1.198	1.458	11.45
15) m trans-1,2-Dichloroe	0.842	0.943	0.966	0.963	0.872	0.750	0.889	9.55
16) m Methyl-tert-butyl e	1.916	2.254	2.316	2.111	1.987	1.868	2.075	8.81
17) m 1,1-Dichloroethane*	2.450	2.749	2.831	2.673	2.584	2.297	2.598	7.62
18) Vinyl Acetate	1.530	1.660	1.683	1.509	1.792	1.568	1.624	6.64
19) N-Hexane	1.454	1.695	1.678	1.531	1.409	1.362	1.522	9.16
20) N-Butanol	0.755	0.893	0.897	0.808	0.844	0.754	0.825	7.75
21) 2-Butanone (MEK)	0.242	0.273	0.275	0.239	0.269	0.210	0.251	10.27
22) m cis-1,2-Dichloroeth	1.580	1.827	1.936	1.861	1.675	1.447	1.721	10.85
23) Bromochloromethane	0.283	0.321	0.342	0.310	0.270	0.256	0.297	11.10
24) m Chloroform*	2.124	2.351	2.467	2.380	2.140	1.950	2.235	8.74
25) 2-2-Dichloropropane	2.074	2.297	2.404	2.383	2.085	1.974	2.203	8.24
26) s Dibromofluoromethan	0.358	0.368	0.338	0.343	0.349	0.340	0.349	3.35
27) s 1,2-Dichloroethane-	0.453	0.478	0.450	0.451	0.449	0.435	0.452	3.11
28) 1,2-Dichloroethane	1.538	1.753	1.882	1.693	1.655	1.445	1.661	9.32
29) m 1,1,1-Trichloroetha	2.122	2.373	2.473	2.473	2.062	1.895	2.233	10.79
30) 1,1-Dichloropropene	1.485	1.681	1.703	1.691	1.338	1.308	1.534	11.92
31) Carbon Tetrachlorid	1.875	2.116	2.228	1.936	1.645	1.534	1.889	14.09
32) m Benzene*	2.874	3.265	3.475	3.340	3.033	2.710	3.116	9.43
33) Dibromomethane	0.513	0.573	0.601	0.555	0.556	0.455	0.542	9.45
34) 1,2-Dichloropropane	0.801	0.881	0.905	0.894	0.754	0.734	0.828	9.06
35) m Trichloroethene*	1.010	1.112	1.185	1.187	1.029	0.916	1.073	10.02
36) Bromodichloromethan	1.416	1.585	1.724	1.686	1.406	1.260	1.513	11.98
37) 2-Chloroethyl-vinyl	0.214	0.246	0.223	0.228	0.238	0.220	0.228	5.20
38) cis-1,3-Dichloropro	1.215	1.396	1.452	1.403	1.190	1.124	1.296	10.53
39) 4-Methyl-2-Pentanone	0.506	0.627	0.656	0.597	0.602	0.587	0.596	8.45
40) trans-1,3-Dichlorop	1.042	1.220	1.354	1.318	1.005	0.964	1.150	14.65
41) 1,1,2-Trichloroetha	0.438	0.505	0.520	0.491	0.422	0.421	0.466	9.52
42) s Toluene-d8 (SURR)	0.992	1.024	0.966	0.964	0.984	1.032	0.994	2.90
43) m Toluene*	3.441	3.726	4.073	3.982	3.527	3.246	3.666	8.75
44) Ethyl Methacrylate	0.086	0.108	0.117	0.115	0.105	0.106	0.106	10.30
45) 1,3-Dichloropropane	0.873	1.035	1.080	1.026	0.922	0.797	0.956	11.44
46) 2-Hexanone	0.355	0.452	0.477	0.420	0.405	0.413	0.420	10.01
-----ISTD-----								
47) Chlorobenzene-d5 (IS)								
48) Dibromochloromethan	1.051	1.228	1.257	1.140	1.015	0.983	1.112	10.27
49) 1,2-Dibromoethane (	0.792	0.938	0.990	0.847	0.828	0.776	0.862	9.81
50) Tetrachloroethene	1.063	1.171	1.229	1.207	1.135	1.008	1.135	7.55
51) m 1,1,1,2-Tetrachloro	1.021	1.177	1.230	1.196	1.150	1.064	1.140	7.09
52) m Chlorobenzene*	3.141	3.626	3.777	3.766	3.329	3.085	3.454	8.98
53) m Ethyl Benzene*	6.829	7.857	8.439	6.358	7.378	6.567	7.238	11.12
54) m,p-Xylene	5.459	6.339	6.205	5.423	6.877	6.296	6.100	9.21
55) m o-Xylene*	2.079	2.303	2.384	2.286	1.936	1.800	2.131	10.86
56) Bromoform	0.446	0.540	0.494	0.524	0.455	0.421	0.480	9.76
57) Styrene	2.975	3.396	3.829	3.570	2.996	2.743	3.252	12.73
58) 1,1,2,2-Tetrachloro	0.547	0.601	0.663	0.562	0.606	0.556	0.589	7.38
59) trans-1,4-Dichloro-	0.313	0.386	0.399	0.341	0.322	0.275	0.339	13.80

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration

Calibration Files  
 20 =0401004.D 50 =0501005.D 100 =0601006.D  
 200 =0701007.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
60) 1,2,3-Trichloroprop	1.195	1.201	1.098	1.015	1.075	1.180	1.127	6.78
61) Isopropylbenzene	6.597	7.863	8.292	6.116	6.544	5.956	6.894	13.90
62) s 4-Bromofluorobenzen	0.624	0.612	0.564	0.527	0.615	0.594	0.589	6.32
63) Bromobenzene	0.956	1.075	1.179	1.137	1.082	0.885	1.052	10.56
64) m N-Propylbenzene*	0.864	0.990	1.039	0.879	0.908	0.785	0.911	E1 10.03
65) 2-Chlorotoluene	5.476	6.434	6.830	5.806	5.595	5.337	5.913	10.00
66) 4-Chlorotoluene	1.094	1.236	1.335	1.269	1.105	1.072	1.185	9.21
67) 1,4-Dichlorobenzene (	-----ISTD-----							
68) 1,3,5-Trimethylbenz	1.470	1.647	1.702	1.440	1.471	1.468	1.533	E1 7.27
69) tert-butylbenzene	1.264	1.450	1.520	1.466	1.284	1.276	1.377	E1 8.31
70) 1,2,4-Trimethylbenz	1.438	1.584	1.625	1.411	1.445	1.442	1.491	E1 6.04
71) sec-Butylbenzene	1.961	2.239	2.308	1.822	1.993	1.930	2.042	E1 9.28
72) 1,3-Dichlorobenzene	4.828	5.449	5.601	5.702	5.002	4.895	5.246	7.29
73) 1,4-Dichlorobenzene	3.023	3.382	3.446	3.517	3.154	3.273	3.299	5.65
74) p-Isopropyltoluene	1.469	1.645	1.734	1.403	1.477	1.460	1.531	E1 8.38
75) 1,2-Dichlorobenzene	4.192	4.641	4.776	4.804	4.112	4.220	4.457	7.10
76) N-Butylbenzene	1.786	2.031	2.030	1.523	1.676	1.673	1.786	E1 11.58
77) 1,2-Dibromo-3-chlor	0.217	0.220	0.220	0.196	0.189	0.198	0.207	6.76
78) 1,2,4-Trichlorobenz	2.627	3.213	3.316	3.284	2.903	2.732	3.012	9.91
79) Naphthalene	4.149	5.123	5.403	4.927	4.004	4.068	4.613	13.25
80) Hexachloro-1,3-buta	1.653	1.819	1.800	1.849	1.710	1.574	1.734	6.19
81) 1,2,3-Trichlorobenz	2.213	2.601	2.661	2.536	2.286	2.106	2.401	9.53
82) 1-Methylnaphthalene	1.647	2.118	2.136	1.967	2.056	2.019	1.990	9.01
83) 2-Methylnaphthalene	1.780	2.534	2.649	2.561	2.182	2.330	2.339	13.79

Data File : C:\HPCHEM\1\DATA\022020C\0101001.D  
 Acq On : 20 Feb 2020 10:54 am  
 Sample : 1ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 15:29 2020

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	742029	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	441144	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	166344	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.15	113	247708	47.78	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	95.56%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	338117	50.35	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	100.70%
42) Toluene-d8 (SURR)	4.55	98	731998	49.63	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	99.26%
62) 4-Bromofluorobenzene (SURR)	6.59	95	275596	53.02	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	106.04%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	21714	1.03	ppb	97
3) Chloromethane	1.40	50	21870	1.67	ppb	# 92
4) Vinyl Chloride*	1.44	62	19445	1.15	ppb	# 62
5) Bromomethane	1.62	94	35215	2.18	ppb	# 65
6) Chloroethane	1.68	64	14923	1.36	ppb	# 84
7) Acrolein	2.39	56	13695	1.17	ppb	# 45
8) Trichlorofluoromethane	1.75	101	49022	1.15	ppb	# 94
9) Acetone	2.30	43	116487	31.60	ppb	97
10) 1,1-Dichloroethene*	2.00	61	37552	1.17	ppb	88
11) Acrylonitrile	2.65	53	43922	1.28	ppb	96
12) Iodomethane	2.08	142	17008m	1.01	ppb	
13) Methylene Chloride	2.28	84	46386	2.93	ppb	94
14) Carbon Disulfide	2.04	76	29460	1.36	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	18126	1.37	ppb	89
16) Methyl-tert-butyl ether* (	2.41	73	41249	1.34	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	50758	1.32	ppb	95
18) Vinyl Acetate	2.76	43	49461	2.05	ppb	# 89
19) N-Hexane	2.39	57	29828	1.32	ppb	94
20) N-Butanol	2.76	57	15069	1.23	ppb	# 66
21) 2-Butanone (MEK)	3.23	43	18369	4.92	ppb	# 80
22) cis-1,2-Dichloroethene*	2.93	61	29224	1.14	ppb	89
23) Bromochloromethane	3.03	128	5186	1.18	ppb	97
24) Chloroform*	3.06	83	44370	1.34	ppb	99
25) 2-2-Dichloropropane	2.98	77	36899	1.13	ppb	93
28) 1,2-Dichloroethane	3.49	62	31606	1.28	ppb	99
29) 1,1,1-Trichloroethane*	3.18	97	39305	1.19	ppb	99
30) 1,1-Dichloropropene	3.24	75	24050	1.06	ppb	94
31) Carbon Tetrachloride	3.15	117	31650	1.13	ppb	97
32) Benzene*	3.38	78	54691	1.18	ppb	91
33) Dibromomethane	3.96	93	10210	1.27	ppb	97
34) 1,2-Dichloropropane	4.01	63	15645	1.27	ppb	85
35) Trichloroethene*	3.69	95	20426	1.28	ppb	95
36) Bromodichloromethane	4.04	83	29154	1.30	ppb	# 99
37) 2-Chloroethyl-vinyl ether	4.37	63	13013	3.84	ppb	96
38) cis-1,3-Dichloropropene	4.43	75	19573m	1.02	ppb	
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	23642	2.67	ppb	# 94
40) trans-1,3-Dichloropene	4.85	75	18767m	1.10	ppb	
41) 1,1,2-Trichloroethane	4.97	83	8382	1.21	ppb	90
43) Toluene*	4.59	91	91587	1.68	ppb	98
44) Ethyl Methacrylate	4.93	69	1758	1.11	ppb	# 37
45) 1,3-Dichloropropane	5.17	76	16967	1.20	ppb	# 92
46) 2-Hexanone	5.41	43	14454	2.32	ppb	# 51
48) Dibromochloromethane	5.10	129	12411	1.26	ppb	97
49) 1,2-Dibromoethane (EDB)	5.28	107	8359	1.10	ppb	# 96

(#) = qualifier out of range (m) = manual integration  
 0101001.D 022020RC.M Tue Feb 25 15:30:08 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0101001.D  
 Acq On : 20 Feb 2020 10:54 am  
 Sample : 1ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 15:29 2020

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.84	166	16421	1.64	ppb	89
51) 1,1,1,2-Tetrachloroethane*	5.69	131	13022	1.29	ppb	93
52) Chlorobenzene*	5.66	112	36688	1.20	ppb #	75
53) Ethyl Benzene*	5.66	91	90722	1.42	ppb #	84
54) m,p-Xylene	5.77	91	172752	3.21	ppb	99
55) o-Xylene*	6.11	106	23995	1.28	ppb	97
56) Bromoform	6.18	173	5679	1.34	ppb #	81
57) Styrene	6.14	104	30456	1.06	ppb	89
58) 1,1,2,2-Tetrachloroethane	6.75	85	7039	1.35	ppb #	95
59) trans-1,4-Dichloro-2-buten	6.89	53	3311	1.11	ppb	91
60) 1,2,3-Trichloropropane	6.87	75	13323	1.34	ppb #	74
61) Isopropylbenzene	6.35	105	63005	1.04	ppb	95
63) Bromobenzene	6.68	156	10284	1.11	ppb	86
64) N-Propylbenzene*	6.69	91	94820	1.18	ppb	98
65) 2-Chlorotoluene	6.83	91	58020	1.11	ppb	96
66) 4-Chlorotoluene	6.97	126	10566m	1.01	ppb	
68) 1,3,5-Trimethylbenzene	6.84	105	54742	1.07	ppb	94
69) tert-butylbenzene	7.12	119	47032	1.03	ppb	96
70) 1,2,4-Trimethylbenzene	7.17	105	64440	1.30	ppb	98
71) sec-Butylbenzene	7.27	105	77888	1.15	ppb	96
72) 1,3-Dichlorobenzene	7.47	146	21854	1.25	ppb	99
73) 1,4-Dichlorobenzene	7.55	148	17503	1.59	ppb	85
74) p-Isopropyltoluene	7.39	119	62899	1.23	ppb	98
75) 1,2-Dichlorobenzene	7.93	146	18155	1.22	ppb	95
76) N-Butylbenzene	7.76	91	63928	1.08	ppb	98
77) 1,2-Dibromo-3-chloropropan	8.65	155	708	1.03	ppb #	62
78) 1,2,4-Trichlorobenzene	9.28	180	12389	1.24	ppb	97
79) Naphthalene	9.59	128	23888	1.56	ppb	97
80) Hexachloro-1,3-butadiene	9.24	225	6591	1.14	ppb	94
81) 1,2,3-Trichlorobenzene	9.77	180	10904	1.37	ppb	91
82) 1-Methylnaphthalene	10.59	142	11528	1.74	ppb	100
83) 2-Methylnaphthalene	10.59	142	11528	1.48	ppb	96



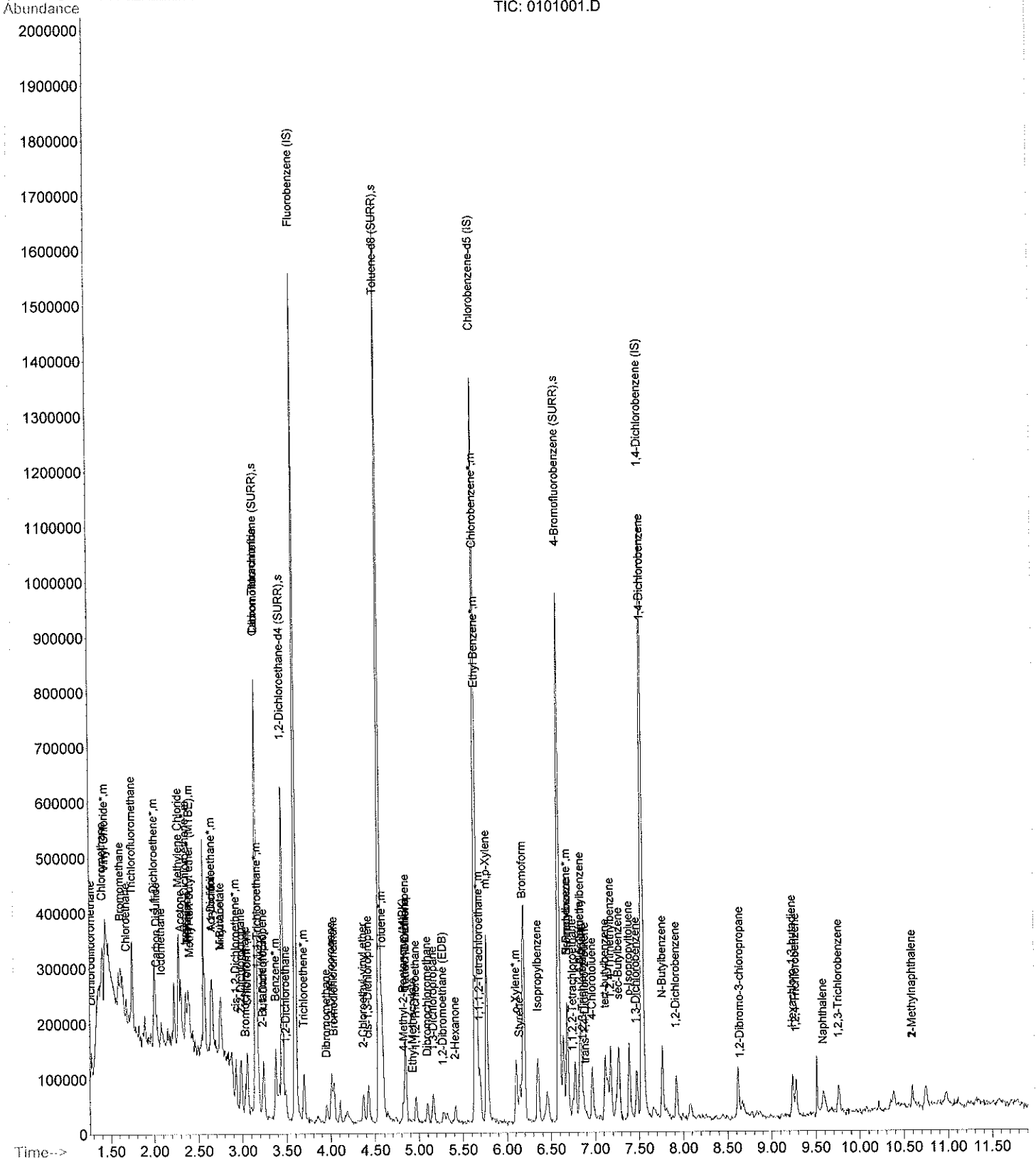
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0101001.D  
Acq On : 20 Feb 2020 10:54 am  
Sample : 1ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 25 15:29 2020

Vial: 1  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0201002.D  
 Acq On : 20 Feb 2020 11:10 am  
 Sample : 5ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:54 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:53:49 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	706224	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	432193	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.53	152	165331	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	246147	47.68	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	95.36%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	316995	44.69	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	89.38%
42) Toluene-d8 (SURR)	4.55	98	694924	51.13	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	102.26%
62) 4-Bromofluorobenzene (SURR)	6.59	95	265684	47.70	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	95.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	84555	3.23	ppb	95
3) Chloromethane	1.40	50	60883	3.77	ppb	99
4) Vinyl Chloride*	1.44	62	80517	4.37	ppb	99
5) Bromomethane	1.62	94	88750	4.08	ppb	94
6) Chloroethane	1.68	64	54114	4.24	ppb	90
7) Acrolein	2.38	56	54714	3.59	ppb	# 72
8) Trichlorofluoromethane	1.75	101	189118	3.46	ppb	99
9) Acetone	2.31	43	84019	20.44	ppb	# 92
10) 1,1-Dichloroethene*	2.01	61	140807	3.30	ppb	96
11) Acrylonitrile	2.65	53	149602	3.15	ppb	96
12) Iodomethane	2.09	142	59823	3.20	ppb	99
13) Methylene Chloride	2.28	84	89304	4.95	ppb	97
14) Carbon Disulfide	2.04	76	101147	3.59	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	61598	3.71	ppb	99
16) Methyl-tert-butyl ether* (	2.40	73	140344	3.63	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	182517	3.69	ppb	97
18) Vinyl Acetate	2.76	43	126534	4.39	ppb	98
19) N-Hexane	2.38	57	99536	3.38	ppb	94
20) N-Butanol	2.75	57	59600	3.91	ppb	95
21) 2-Butanone (MEK)	3.23	43	47544	10.79	ppb	# 96
22) cis-1,2-Dichloroethene*	2.93	61	118307	3.90	ppb	99
23) Bromochloromethane	3.04	128	19039	4.06	ppb	83
24) Chloroform*	3.06	83	151133	3.76	ppb	99
25) 2-2-Dichloropropane	2.99	77	147249	3.58	ppb	99
28) 1,2-Dichloroethane	3.49	62	116909	3.64	ppb	97
29) 1,1,1-Trichloroethane*	3.18	97	145642	3.49	ppb	99
30) 1,1-Dichloropropene	3.24	75	94459	3.49	ppb	97
31) Carbon Tetrachloride	3.15	117	116180	3.06	ppb	97
32) Benzene*	3.38	78	214165	4.30	ppb	98
33) Dibromomethane	3.95	93	39240	4.10	ppb	93
34) 1,2-Dichloropropane	4.01	63	53283	3.93	ppb	93
35) Trichloroethene*	3.69	95	72645	3.96	ppb	96
36) Bromodichloromethane	4.04	83	99305	3.59	ppb	100
37) 2-Chloroethyl-vinyl ether	4.37	63	57308	16.64	ppb	98
38) cis-1,3-Dichloropropene	4.43	75	84015	3.89	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	86283	8.87	ppb	# 95
40) trans-1,3-Dichloropene	4.85	75	70995	3.50	ppb	84
41) 1,1,2-Trichloroethane	4.97	83	29806	3.86	ppb	91
43) Toluene*	4.58	91	249075	4.25	ppb	99
44) Ethyl Methacrylate	4.94	69	5431	2.97	ppb	# 82
45) 1,3-Dichloropropane	5.17	76	65079	4.03	ppb	93
46) 2-Hexanone	5.41	43	61535	9.21	ppb	# 94
48) Dibromochloromethane	5.10	129	43851	4.14	ppb	99
49) 1,2-Dibromoethane (EDB)	5.28	107	35771	4.47	ppb	# 99

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0201002.D  
 Acq On : 20 Feb 2020 11:10 am  
 Sample : 5ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:54 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:53:49 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	49035	5.08	ppb	94
51) 1,1,1,2-Tetrachloroethane*	5.70	131	49711	4.87	ppb	93
52) Chlorobenzene*	5.66	112	143869	4.80	ppb	93
53) Ethyl Benzene*	5.66	91	318859	4.92	ppb	94
54) m,p-Xylene	5.77	91	494480	9.54	ppb	97
55) o-Xylene*	6.10	106	83671	4.53	ppb	96
56) Bromoform	6.18	173	19662	4.22	ppb #	92
57) Styrene	6.15	104	129468	4.68	ppb #	85
58) 1,1,2,2-Tetrachloroethane	6.74	85	26181	4.71	ppb	96
59) trans-1,4-Dichloro-2-buten	6.89	53	13902	3.85	ppb	96
60) 1,2,3-Trichloropropane	6.87	75	46441	4.07	ppb #	97
61) Isopropylbenzene	6.35	105	282824	4.72	ppb	98
63) Bromobenzene	6.68	156	46757	5.31	ppb	92
64) N-Propylbenzene*	6.68	91	392569	4.63	ppb	99
65) 2-Chlorotoluene	6.83	91	241814	4.32	ppb	97
66) 4-Chlorotoluene	6.97	126	47768	4.62	ppb	96
68) 1,3,5-Trimethylbenzene	6.85	105	243185	4.81	ppb	98
69) tert-butylbenzene	7.12	119	212279	4.70	ppb	98
70) 1,2,4-Trimethylbenzene	7.18	105	238869	4.85	ppb	96
71) sec-Butylbenzene	7.27	105	329463	4.96	ppb	100
72) 1,3-Dichlorobenzene	7.48	146	82701	5.01	ppb	91
73) 1,4-Dichlorobenzene	7.55	148	52152	5.01	ppb	93
74) p-Isopropyltoluene	7.39	119	244140	4.92	ppb	98
75) 1,2-Dichlorobenzene	7.92	146	67981	4.82	ppb	95
76) N-Butylbenzene	7.76	91	277108	4.43	ppb	98
77) 1,2-Dibromo-3-chloropropan	8.64	155	3119	4.51	ppb	90
78) 1,2,4-Trichlorobenzene	9.28	180	47990	4.80	ppb	96
79) Naphthalene	9.59	128	66199	4.47	ppb	99
80) Hexachloro-1,3-butadiene	9.24	225	28265	4.71	ppb	97
81) 1,2,3-Trichlorobenzene	9.76	180	37797	4.67	ppb	97
82) 1-Methylnaphthalene	10.75	142	23990	4.25	ppb	94
83) 2-Methylnaphthalene	10.60	142	26067	3.58	ppb	97



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0301003.D  
 Acq On : 20 Feb 2020 11:27 am  
 Sample : 10ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:55 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:54:44 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	688729	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	422759	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	156003	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	234233	47.44	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	94.88%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	299326	44.60	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	89.20%
42) Toluene-d8 (SURR)	4.55	98	710678	53.65	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	107.30%
62) 4-Bromofluorobenzene (SURR)	6.59	95	250908	47.05	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	94.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	172342m	7.14	ppb	
3) Chloromethane	1.40	50	97773	6.54	ppb	95
4) Vinyl Chloride*	1.44	62	135021	7.62	ppb	92
5) Bromomethane	1.62	94	135284	6.73	ppb	96
6) Chloroethane	1.68	64	86979	6.94	ppb	92
7) Acrolein	2.38	56	94211	6.76	ppb	95
8) Trichlorofluoromethane	1.76	101	339849	6.88	ppb	99
9) Acetone	2.31	43	105023	23.87	ppb	98
10) 1,1-Dichloroethene*	2.01	61	262383	6.80	ppb	98
11) Acrylonitrile	2.65	53	273983	6.39	ppb	98
12) Iodomethane	2.09	142	116642	6.76	ppb	97
13) Methylene Chloride	2.28	84	146355	8.46	ppb	98
14) Carbon Disulfide	2.04	76	165014	6.37	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	103324	6.73	ppb	97
16) Methyl-tert-butyl ether* (	2.41	73	257273	7.29	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	316376	7.05	ppb	97
18) Vinyl Acetate	2.76	43	215970	7.93	ppb	99
19) N-Hexane	2.38	57	187672	7.02	ppb	99
20) N-Butanol	2.76	57	103852	7.40	ppb	98
21) 2-Butanone (MEK)	3.23	43	72366	17.65	ppb	# 99
22) cis-1,2-Dichloroethene*	2.93	61	199264	7.01	ppb	97
23) Bromochloromethane	3.04	128	35221	7.92	ppb	94
24) Chloroform*	3.06	83	268656	7.30	ppb	99
25) 2-2-Dichloropropane	2.99	77	271858	7.17	ppb	99
28) 1,2-Dichloroethane	3.49	62	199081	6.89	ppb	95
29) 1,1,1-Trichloroethane*	3.18	97	261068	6.82	ppb	98
30) 1,1-Dichloropropene	3.25	75	180124	7.15	ppb	98
31) Carbon Tetrachloride	3.15	117	211264	6.16	ppb	97
32) Benzene*	3.38	78	373289	7.87	ppb	99
33) Dibromomethane	3.96	93	62690	7.06	ppb	96
34) 1,2-Dichloropropane	4.01	63	101057	7.94	ppb	98
35) Trichloroethene*	3.70	95	126135	7.38	ppb	98
36) Bromodichloromethane	4.04	83	173619	6.82	ppb	94
37) 2-Chloroethyl-vinyl ether	4.38	63	101403	31.34	ppb	98
38) cis-1,3-Dichloropropene	4.43	75	154789	7.59	ppb	100
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	152175	16.79	ppb	# 95
40) trans-1,3-Dichloropene	4.85	75	132769	7.08	ppb	99
41) 1,1,2-Trichloroethane	4.97	83	57983	8.13	ppb	97
43) Toluene*	4.58	91	447162	8.09	ppb	100
44) Ethyl Methacrylate	4.95	69	8658	5.29	ppb	# 69
45) 1,3-Dichloropropane	5.17	76	109811	7.30	ppb	99
46) 2-Hexanone	5.41	43	102072	16.25	ppb	97
48) Dibromochloromethane	5.10	129	83086	8.38	ppb	98
49) 1,2-Dibromoethane (EDB)	5.28	107	65640	8.70	ppb	94

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0301003.D  
 Acq On : 20 Feb 2020 11:27 am  
 Sample : 10ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:55 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:54:44 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	85191	9.09	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.69	131	89976	9.11	ppb	99
52) Chlorobenzene*	5.66	112	260850	9.09	ppb	96
53) Ethyl Benzene*	5.66	91	555213	9.02	ppb	95
54) m,p-Xylene	5.77	91	864688	17.62	ppb	97
55) o-Xylene*	6.11	106	152179	8.58	ppb	97
56) Bromoform	6.18	173	35622	8.27	ppb	99
57) Styrene	6.15	104	231899	8.69	ppb	92
58) 1,1,2,2-Tetrachloroethane	6.75	85	47018	9.00	ppb	93
59) trans-1,4-Dichloro-2-buten	6.90	53	23235	6.99	ppb	92
60) 1,2,3-Trichloropropane	6.87	75	99808	8.99	ppb	# 94
61) Isopropylbenzene	6.35	105	503561	8.79	ppb	99
63) Bromobenzene	6.68	156	74867	8.54	ppb	97
64) N-Propylbenzene*	6.69	91	663618	8.18	ppb	99
65) 2-Chlorotoluene	6.83	91	451233	8.51	ppb	98
66) 4-Chlorotoluene	6.97	126	90678	9.19	ppb	94
68) 1,3,5-Trimethylbenzene	6.84	105	458027	9.81	ppb	99
69) tert-butylbenzene	7.12	119	398086	9.61	ppb	99
70) 1,2,4-Trimethylbenzene	7.18	105	449857	9.96	ppb	98
71) sec-Butylbenzene	7.27	105	602296	9.83	ppb	99
72) 1,3-Dichlorobenzene	7.48	146	152742	10.02	ppb	99
73) 1,4-Dichlorobenzene	7.55	148	102122	10.55	ppb	96
74) p-Isopropyltoluene	7.39	119	455548	9.91	ppb	99
75) 1,2-Dichlorobenzene	7.93	146	131676	10.19	ppb	99
76) N-Butylbenzene	7.76	91	521927	9.18	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.65	155	6185	10.06	ppb	91
78) 1,2,4-Trichlorobenzene	9.28	180	85249	9.38	ppb	97
79) Naphthalene	9.59	128	126916	9.28	ppb	97
80) Hexachloro-1,3-butadiene	9.24	225	49105	8.98	ppb	98
81) 1,2,3-Trichlorobenzene	9.76	180	65699	8.90	ppb	98
82) 1-Methylnaphthalene	10.75	142	42984	8.19	ppb	97
83) 2-Methylnaphthalene	10.60	142	42685	6.59	ppb	97

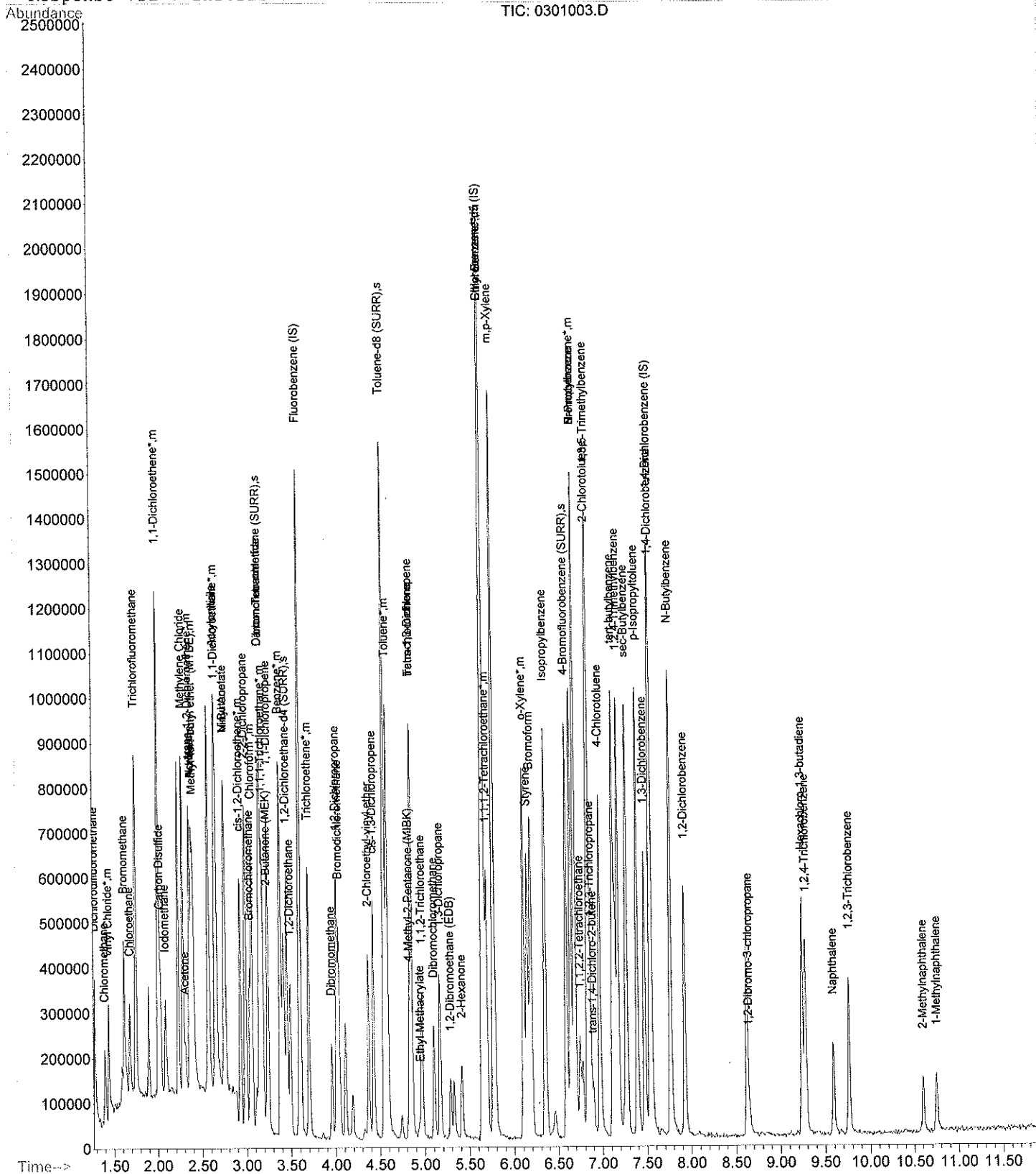
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0301003.D  
Acq On : 20 Feb 2020 11:27 am  
Sample : 10ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 12:55 2020

Vial: 3  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0401004.D  
 Acq On : 20 Feb 2020 11:44 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:55 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:55:23 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	751960	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	480797	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	187237	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.16	113	269394	50.73	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	101.46%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	360439	51.14	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	102.28%
42) Toluene-d8 (SURR)	4.55	98	786232	53.16	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	106.32%
62) 4-Bromofluorobenzene (SURR)	6.59	95	299955	51.18	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	102.36%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	440158m	17.31	ppb	
3) Chloromethane	1.39	50	260539	17.21	ppb	97
4) Vinyl Chloride*	1.44	62	327839	17.55	ppb	97
5) Bromomethane	1.62	94	315021	15.52	ppb	94
6) Chloroethane	1.68	64	213522	16.61	ppb	96
7) Acrolein	2.39	56	227782	16.02	ppb	100
8) Trichlorofluoromethane	1.75	101	848051	16.89	ppb	100
9) Acetone	2.31	43	187669	38.15	ppb	96
10) 1,1-Dichloroethene*	2.01	61	630944	16.11	ppb	98
11) Acrylonitrile	2.65	53	675126	15.58	ppb	99
12) Iodomethane	2.09	142	291357	16.31	ppb	99
13) Methylene Chloride	2.29	84	304753	16.55	ppb	98
14) Carbon Disulfide	2.04	76	404095	15.28	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	253409	16.16	ppb	96
16) Methyl-tert-butyl ether* (	2.41	73	576302	15.87	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	737001	16.03	ppb	99
18) Vinyl Acetate	2.77	43	460205	16.15	ppb	# 96
19) N-Hexane	2.39	57	437426	15.78	ppb	98
20) N-Butanol	2.76	57	227060	15.82	ppb	# 97
21) 2-Butanone (MEK)	3.23	43	181940	43.33	ppb	# 99
22) cis-1,2-Dichloroethene*	2.93	61	475263	16.35	ppb	99
23) Bromochloromethane	3.04	128	85091	18.16	ppb	98
24) Chloroform*	3.06	83	638817	16.79	ppb	99
25) 2-2-Dichloropropane	2.99	77	623701	16.00	ppb	99
28) 1,2-Dichloroethane	3.49	62	462607	15.71	ppb	98
29) 1,1,1-Trichloroethane*	3.19	97	638355	16.12	ppb	99
30) 1,1-Dichloropropene	3.24	75	446566	16.95	ppb	99
31) Carbon Tetrachloride	3.15	117	563962	16.23	ppb	98
32) Benzene*	3.38	78	864561	17.10	ppb	98
33) Dibromomethane	3.96	93	154287	16.80	ppb	97
34) 1,2-Dichloropropane	4.01	63	240912	17.81	ppb	99
35) Trichloroethene*	3.70	95	303721	16.92	ppb	98
36) Bromodichloromethane	4.04	83	425974	16.32	ppb	98
37) 2-Chloroethyl-vinyl ether	4.37	63	256912	76.68	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	365446	17.09	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.83	43	380735	40.99	ppb	99
40) trans-1,3-Dichloropene	4.85	75	313410	16.15	ppb	96
41) 1,1,2-Trichloroethane	4.97	83	131690	17.49	ppb	96
43) Toluene*	4.58	91	1035013	17.62	ppb	99
44) Ethyl Methacrylate	4.94	69	25917	16.01	ppb	# 91
45) 1,3-Dichloropropane	5.16	76	262681	16.64	ppb	99
46) 2-Hexanone	5.41	43	266770	41.17	ppb	98
48) Dibromochloromethane	5.10	129	202089	18.79	ppb	98
49) 1,2-Dibromoethane (EDB)	5.28	107	152404	18.44	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0401004.D 022020RC.M Tue Feb 25 15:30:24 2020

GARY



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0401004.D  
 Acq On : 20 Feb 2020 11:44 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:55 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:55:23 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	204394	19.55	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.70	131	196429	18.00	ppb	95
52) Chlorobenzene*	5.66	112	603997	18.75	ppb	96
53) Ethyl Benzene*	5.67	91	1313333	19.33	ppb	97
54) m,p-Xylene	5.77	91	2099888	39.16	ppb	99
55) o-Xylene*	6.11	106	399848	20.41	ppb	95
56) Bromoform	6.18	173	85833	18.30	ppb	94
57) Styrene	6.15	104	572208	19.34	ppb	98
58) 1,1,2,2-Tetrachloroethane	6.75	85	105140	18.51	ppb	97
59) trans-1,4-Dichloro-2-buten	6.90	53	60161	17.33	ppb	91
60) 1,2,3-Trichloropropane	6.87	75	229833	19.09	ppb #	97
61) Isopropylbenzene	6.35	105	1268734	20.06	ppb	98
63) Bromobenzene	6.69	156	183815	18.99	ppb	97
64) N-Propylbenzene*	6.69	91	1661258	18.83	ppb	99
65) 2-Chlorotoluene	6.83	91	1053214	18.18	ppb	99
66) 4-Chlorotoluene	6.97	126	210387	19.07	ppb	93
68) 1,3,5-Trimethylbenzene	6.85	105	1101122	19.67	ppb	99
69) tert-butylbenzene	7.12	119	946643	18.97	ppb	99
70) 1,2,4-Trimethylbenzene	7.18	105	1076755	19.77	ppb	99
71) sec-Butylbenzene	7.27	105	1468366	20.04	ppb	100
72) 1,3-Dichlorobenzene	7.48	146	361613	19.58	ppb	98
73) 1,4-Dichlorobenzene	7.55	148	226403	19.55	ppb	98
74) p-Isopropyltoluene	7.39	119	1100555	19.84	ppb	98
75) 1,2-Dichlorobenzene	7.93	146	313944	19.96	ppb	98
76) N-Butylbenzene	7.76	91	1337308	20.26	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.65	155	16249	22.11	ppb	85
78) 1,2,4-Trichlorobenzene	9.28	180	196721	18.08	ppb	98
79) Naphthalene	9.59	128	310737	18.99	ppb	100
80) Hexachloro-1,3-butadiene	9.24	225	123826	19.24	ppb	97
81) 1,2,3-Trichlorobenzene	9.76	180	165764	19.20	ppb	98
82) 1-Methylnaphthalene	10.75	142	123383	19.49	ppb	97
83) 2-Methylnaphthalene	10.60	142	133339	18.30	ppb	97

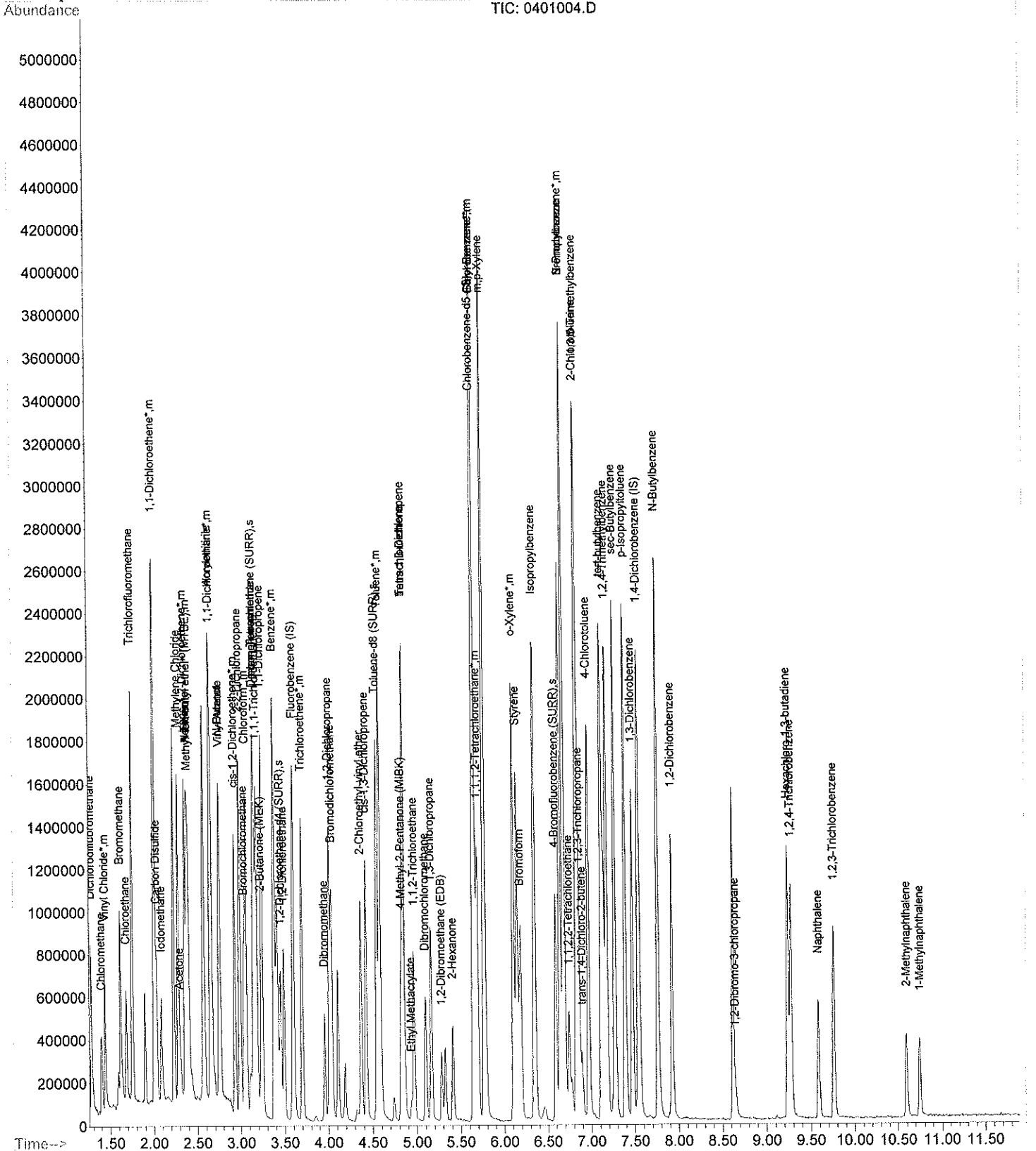
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0401004.D  
Acq On : 20 Feb 2020 11:44 am  
Sample : 20ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 12:55 2020

Vial: 4  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\022020C\0501005.D  
 Acq On : 20 Feb 2020 12:01 pm  
 Sample : 50ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:57 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:56:46 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	741772	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	484982	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	191131	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	273077	51.11	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	102.22%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	354490	51.81	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	103.62%
42) Toluene-d8 (SURR)	4.55	98	759838	49.48	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	98.96%
62) 4-Bromofluorobenzene (SURR)	6.59	95	296791	50.37	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	100.74%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	1130328m	53.53	ppb	
3) Chloromethane	1.39	50	655947	50.19	ppb	100
4) Vinyl Chloride*	1.44	62	896506	53.03	ppb	100
5) Bromomethane	1.61	94	841563	52.16	ppb	100
6) Chloroethane	1.68	64	585302	53.24	ppb	100
7) Acrolein	2.38	56	635908	54.34	ppb	100
8) Trichlorofluoromethane	1.75	101	2291881	53.96	ppb	100
9) Acetone	2.31	43	497587	114.00	ppb	100
10) 1,1-Dichloroethene*	2.01	61	1739539	54.01	ppb	100
11) Acrylonitrile	2.65	53	1831947	53.60	ppb	100
12) Iodomethane	2.09	142	887884	56.22	ppb	100
13) Methylene Chloride	2.29	84	776594	49.12	ppb	100
14) Carbon Disulfide	2.03	76	1141686	52.77	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	699328	53.00	ppb	100
16) Methyl-tert-butyl ether* (	2.41	73	1671662	54.30	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	2039162	52.92	ppb	100
18) Vinyl Acetate	2.76	43	1231550	51.12	ppb	100
19) N-Hexane	2.38	57	1257634	55.70	ppb	100
20) N-Butanol	2.76	57	662579	54.13	ppb	100
21) 2-Butanone (MEK)	3.22	43	507138	135.94	ppb	# 100
22) cis-1,2-Dichloroethene*	2.93	61	1355478	53.09	ppb	100
23) Bromochloromethane	3.04	128	238038	54.05	ppb	100
24) Chloroform*	3.06	83	1743907	52.59	ppb	100
25) 2-2-Dichloropropane	2.99	77	1704010	52.15	ppb	100
28) 1,2-Dichloroethane	3.49	62	1300059	52.76	ppb	100
29) 1,1,1-Trichloroethane*	3.19	97	1759878	53.12	ppb	100
30) 1,1-Dichloropropene	3.24	75	1246741	54.78	ppb	100
31) Carbon Tetrachloride	3.15	117	1569418	54.45	ppb	100
32) Benzene*	3.38	78	2422164	52.39	ppb	100
33) Dibromomethane	3.95	93	424840	52.84	ppb	100
34) 1,2-Dichloropropane	4.01	63	653854	53.21	ppb	100
35) Trichloroethene*	3.70	95	825145	51.83	ppb	100
36) Bromodichloromethane	4.04	83	1175786	52.38	ppb	100
37) 2-Chloroethyl-vinyl ether	4.37	63	728499	216.37	ppb	100
38) cis-1,3-Dichloropropene	4.43	75	1035155	53.82	ppb	100
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	1161985	141.70	ppb	100
40) trans-1,3-Dichloropene	4.85	75	904698	53.01	ppb	100
41) 1,1,2-Trichloroethane	4.97	83	374665	54.17	ppb	100
43) Toluene*	4.58	91	2763890	50.82	ppb	100
44) Ethyl Methacrylate	4.94	69	80175	57.29	ppb	# 100
45) 1,3-Dichloropropane	5.17	76	767643	54.15	ppb	100
46) 2-Hexanone	5.41	43	838799	144.40	ppb	100
48) Dibromochloromethane	5.10	129	595477	55.20	ppb	100
49) 1,2-Dibromoethane (EDB)	5.28	107	454853	54.40	ppb	100

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0501005.D  
 Acq On : 20 Feb 2020 12:01 pm  
 Sample : 50ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:57 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:56:46 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	568027	51.58	ppb	100
51) 1,1,1,2-Tetrachloroethane*	5.70	131	570960	51.64	ppb	100
52) Chlorobenzene*	5.66	112	1758511	52.49	ppb	100
53) Ethyl Benzene*	5.66	91	3810338	54.28	ppb	100
54) m,p-Xylene	5.77	91	6148230	116.31	ppb	100
55) o-Xylene*	6.11	106	1116787	54.02	ppb	100
56) Bromoform	6.18	173	261931	54.41	ppb	100
57) Styrene	6.15	104	1647097	52.22	ppb	100
58) 1,1,2,2-Tetrachloroethane	6.75	85	291423	51.01	ppb	100
59) trans-1,4-Dichloro-2-buten	6.90	53	187305	56.91	ppb	100
60) 1,2,3-Trichloropropane	6.87	75	582641	48.57	ppb #	100
61) Isopropylbenzene	6.35	105	3813176	57.02	ppb	100
62) Bromobenzene	6.69	156	521362	51.08	ppb	100
63) N-Propylbenzene*	6.69	91	4800276	56.64	ppb	100
64) 2-Chlorotoluene	6.83	91	3120230	54.40	ppb	100
65) 4-Chlorotoluene	6.97	126	599329	52.13	ppb	99
66) 1,3,5-Trimethylbenzene	6.85	105	3147872	53.71	ppb	100
67) tert-butylbenzene	7.12	119	2771808	52.67	ppb	100
68) 1,2,4-Trimethylbenzene	7.18	105	3027670	53.13	ppb	100
69) sec-Butylbenzene	7.27	105	4279473	55.86	ppb	100
70) 1,3-Dichlorobenzene	7.47	146	1041379	51.93	ppb	100
71) 1,4-Dichlorobenzene	7.55	148	646313	51.25	ppb	100
72) p-Isopropyltoluene	7.39	119	3143679	53.70	ppb	100
73) 1,2-Dichlorobenzene	7.92	146	886959	52.06	ppb	100
74) N-Butylbenzene	7.76	91	3881928	56.84	ppb	100
75) 1,2-Dibromo-3-chloropropan	8.65	155	41987	53.17	ppb	100
76) 1,2,4-Trichlorobenzene	9.28	180	614100	53.33	ppb	100
77) Naphthalene	9.59	128	979254	55.54	ppb	100
78) Hexachloro-1,3-butadiene	9.24	225	347729	52.46	ppb	100
79) 1,2,3-Trichlorobenzene	9.76	180	497196	54.18	ppb	100
80) 1-Methylnaphthalene	10.74	142	404730	59.39	ppb	100
81) 2-Methylnaphthalene	10.59	142	484260	60.96	ppb	100

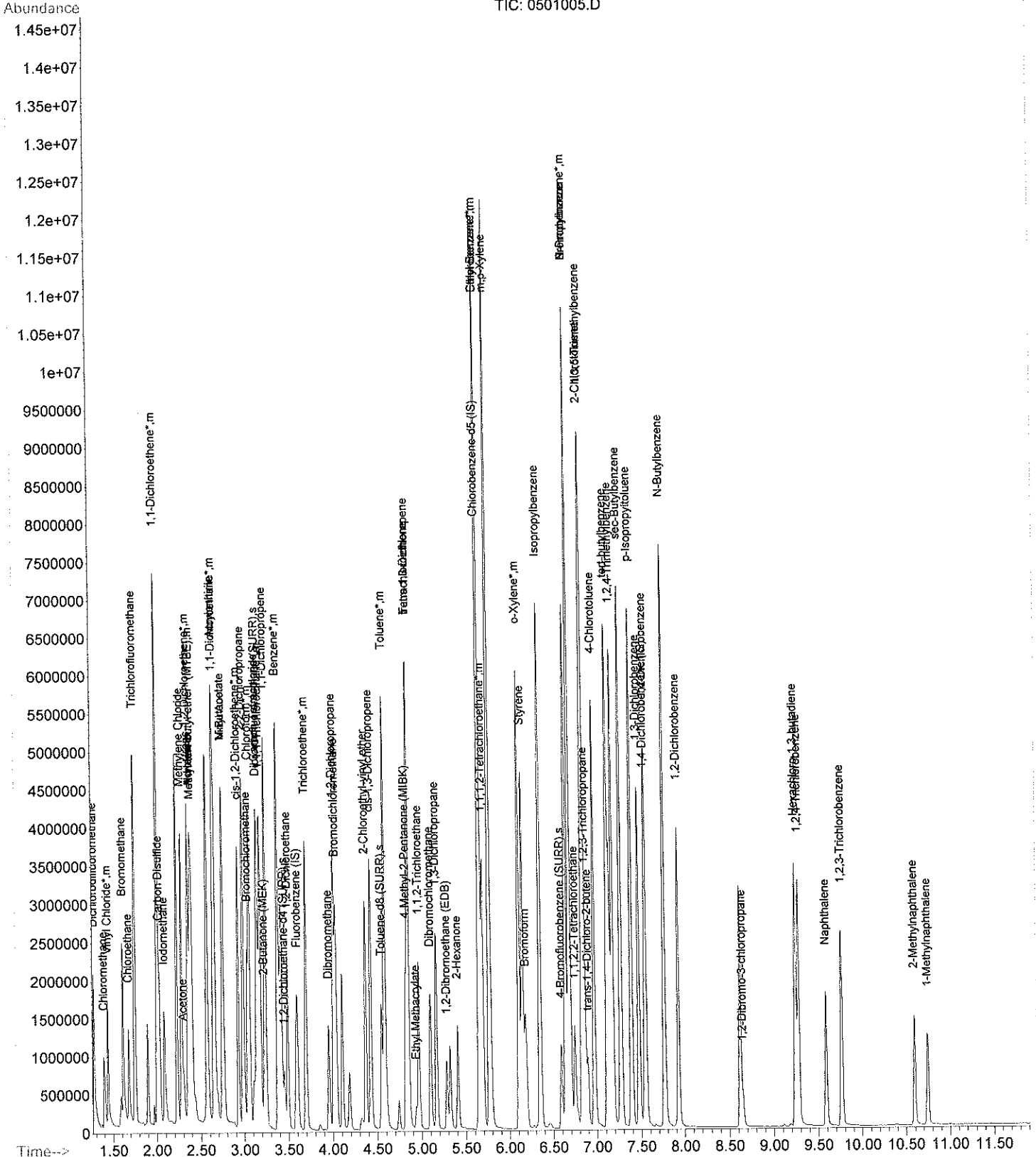
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0501005.D  
Acq On : 20 Feb 2020 12:01 pm  
Sample : 50ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 12:57 2020

Vial: 5  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0601006.D  
 Acq On : 20 Feb 2020 12:18 pm  
 Sample : 100ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:56 2020

Vial: 6  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:55:48 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	770344	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.65	117	515439	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	212942	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	290499	55.06	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	110.12%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	366775	52.68	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	105.36%
42) Toluene-d8 (SURR)	4.55	98	794206	52.31	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	104.62%
62) 4-Bromofluorobenzene (SURR)	6.59	95	310705	50.33	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	100.66%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	2407733m	96.39	ppb	
3) Chloromethane	1.41	50	1515133	102.22	ppb	# 93
4) Vinyl Chloride*	1.45	62	1863068	98.33	ppb	96
5) Bromomethane	1.62	94	1719413	88.56	ppb	100
6) Chloroethane	1.69	64	1253250	100.32	ppb	90
7) Acrolein	2.39	56	1332352	95.42	ppb	98
8) Trichlorofluoromethane	1.76	101	5034051	103.81	ppb	98
9) Acetone	2.32	43	979701	203.25	ppb	97
10) 1,1-Dichloroethene*	2.01	61	3722133	98.57	ppb	99
11) Acrylonitrile	2.65	53	3954513	94.79	ppb	99
12) Iodomethane	2.10	142	1943454	108.00	ppb	99
13) Methylene Chloride	2.29	84	1604285	89.28	ppb	97
14) Carbon Disulfide	2.04	76	2501065	97.34	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	1488830	96.85	ppb	98
16) Methyl-tert-butyl ether* (	2.41	73	3568160	101.11	ppb	# 100
17) 1,1-Dichloroethane*	2.67	63	4362347	98.07	ppb	99
18) Vinyl Acetate	2.77	43	2593597	93.14	ppb	98
19) N-Hexane	2.40	57	2585335	96.37	ppb	99
20) N-Butanol	2.76	57	1381797	99.51	ppb	97
21) 2-Butanone (MEK)	3.23	43	1060417	260.09	ppb	# 99
22) cis-1,2-Dichloroethene*	2.93	61	2982823	104.15	ppb	99
23) Bromochloromethane	3.04	128	527026	111.26	ppb	94
24) Chloroform*	3.07	83	3801589	101.29	ppb	99
25) 2-2-Dichloropropane	2.99	77	3703377	97.38	ppb	100
28) 1,2-Dichloroethane	3.50	62	2899396	102.01	ppb	100
29) 1,1,1-Trichloroethane*	3.19	97	3809600	98.24	ppb	98
30) 1,1-Dichloropropene	3.25	75	2624497	100.29	ppb	100
31) Carbon Tetrachloride	3.15	117	3431901	101.16	ppb	98
32) Benzene*	3.39	78	5354397	104.97	ppb	99
33) Dibromomethane	3.96	93	925346	102.82	ppb	99
34) 1,2-Dichloropropane	4.02	63	1394183	103.44	ppb	99
35) Trichloroethene*	3.70	95	1826153	102.63	ppb	100
36) Bromodichloromethane	4.04	83	2656379	103.76	ppb	98
37) 2-Chloroethyl-vinyl ether	4.38	63	1776062	522.19	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	2237152	104.93	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	2525886	277.84	ppb	99
40) trans-1,3-Dichloropene	4.85	75	2085814	109.74	ppb	81
41) 1,1,2-Trichloroethane	4.97	83	801559	107.13	ppb	96
43) Toluene*	4.59	91	6274521	105.57	ppb	99
44) Ethyl Methacrylate	4.94	69	180454	114.08	ppb	# 93
45) 1,3-Dichloropropane	5.17	76	1663475	107.08	ppb	99
46) 2-Hexanone	5.41	43	1838089	288.29	ppb	100
48) Dibromochloromethane	5.10	129	1296026	113.55	ppb	100
49) 1,2-Dibromoethane (EDB)	5.28	107	1020840	117.26	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0601006.D 022020RC.M Tue Feb 25 15:30:41 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0601006.D  
 Acq On : 20 Feb 2020 12:18 pm  
 Sample : 100ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:56 2020

Vial: 6  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:55:48 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	1266567	110.86	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.70	131	1268366	109.14	ppb	96
52) Chlorobenzene*	5.66	112	3893272	111.26	ppb	99
53) Ethyl Benzene*	5.67	91	8699801	119.15	ppb	98
54) m,p-Xylene	5.77	91	12792553	220.91	ppb	94
55) o-Xylene*	6.11	106	2457409	114.11	ppb	99
56) Bromoform	6.18	173	609223	122.15	ppb	99
57) Styrene	6.15	104	3947723	122.48	ppb	96
58) 1,1,2,2-Tetrachloroethane	6.75	85	683187	114.21	ppb	94
59) trans-1,4-Dichloro-2-buten	6.90	53	411529	113.77	ppb	94
60) 1,2,3-Trichloropropane	6.87	75	1532314	120.64	ppb	# 99
61) Isopropylbenzene	6.35	105	8547798	125.17	ppb	98
63) Bromobenzene	6.69	156	1215209	115.16	ppb	95
64) N-Propylbenzene*	6.69	91	10711633	113.16	ppb	100
65) 2-Chlorotoluene	6.83	91	7040619	114.17	ppb	99
66) 4-Chlorotoluene	6.97	126	1376722	115.00	ppb	98
68) 1,3,5-Trimethylbenzene	6.85	105	7248720	112.28	ppb	98
69) tert-butylbenzene	7.12	119	6474998	112.74	ppb	100
70) 1,2,4-Trimethylbenzene	7.18	105	6922556	109.87	ppb	100
71) sec-Butylbenzene	7.28	105	9828696	116.43	ppb	99
72) 1,3-Dichlorobenzene	7.48	146	2385408	111.48	ppb	98
73) 1,4-Dichlorobenzene	7.55	148	1467659	109.07	ppb	99
74) p-Isopropyltoluene	7.39	119	7385002	114.96	ppb	99
75) 1,2-Dichlorobenzene	7.93	146	2033959	112.04	ppb	98
76) N-Butylbenzene	7.76	91	8647271	114.45	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.65	155	93807	109.73	ppb	96
78) 1,2,4-Trichlorobenzene	9.28	180	1412036	114.42	ppb	98
79) Naphthalene	9.59	128	2301204	122.98	ppb	99
80) Hexachloro-1,3-butadiene	9.24	225	766658	104.56	ppb	97
81) 1,2,3-Trichlorobenzene	9.77	180	1133317	115.34	ppb	99
82) 1-Methylnaphthalene	10.74	142	909749	125.02	ppb	100
83) 2-Methylnaphthalene	10.59	142	1128052	134.74	ppb	98

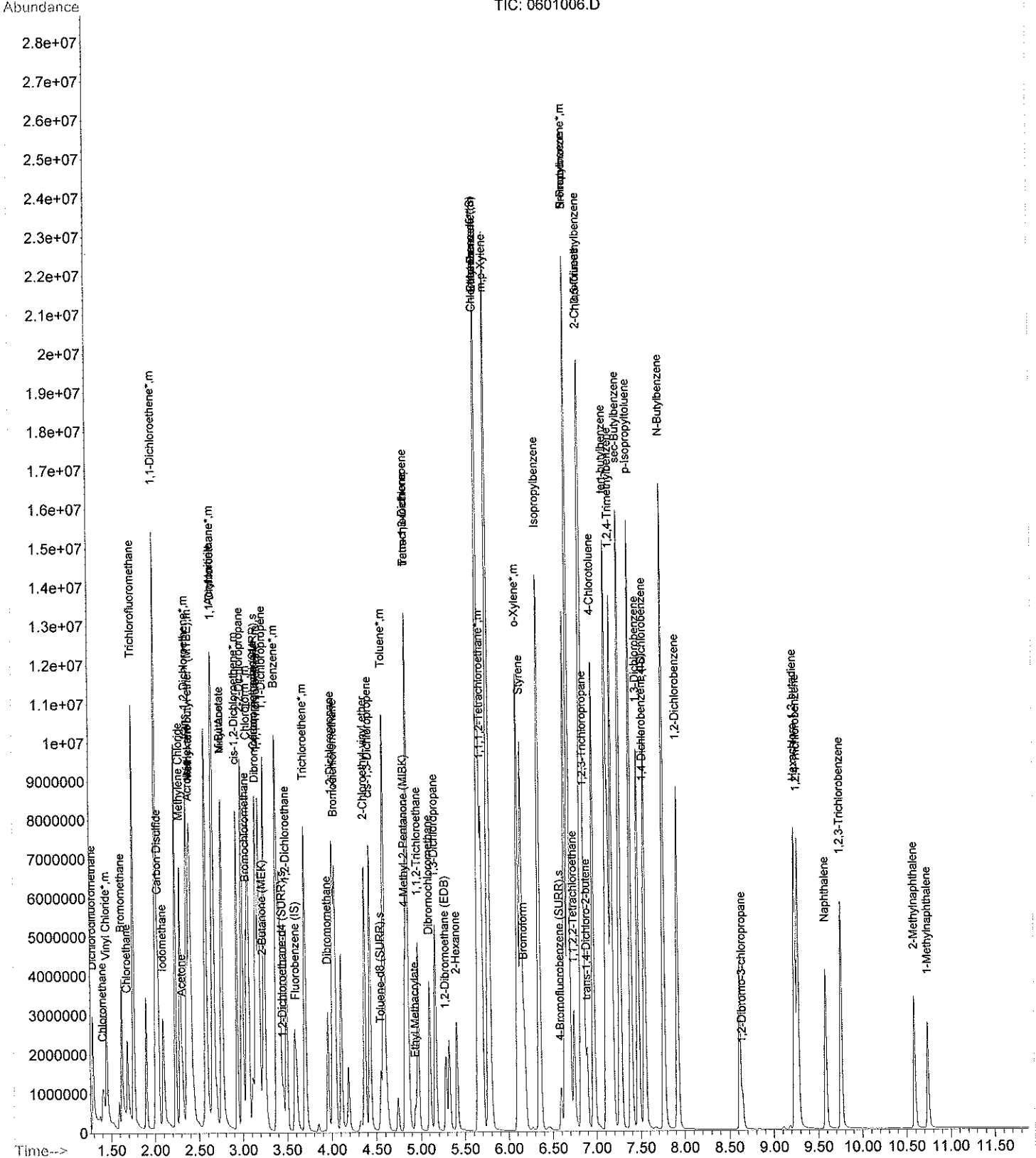
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0601006.D  
Acq On : 20 Feb 2020 12:18 pm  
Sample : 100ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 12:56 2020

Vial: 6  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0701007.D  
 Acq On : 20 Feb 2020 12:34 pm  
 Sample : 200ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:56 2020

Vial: 7  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:56:06 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	772093	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	560768	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	220560	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	284744	52.80	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	105.60%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	347921	49.41	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.82%
42) Toluene-d8 (SURR)	4.55	98	844238	54.29	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	108.58%
62) 4-Bromofluorobenzene (SURR)	6.59	95	335380	49.93	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	99.86%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	4587087m	204.22	ppb	
3) Chloromethane	1.41	50	3024795	212.41	ppb	# 94
4) Vinyl Chloride*	1.45	62	3732353	205.68	ppb	92
5) Bromomethane	1.62	94	3052326	170.25	ppb	80
6) Chloroethane	1.69	64	2274485	188.82	ppb	89
7) Acrolein	2.40	56	2455316	187.79	ppb	97
8) Trichlorofluoromethane	1.76	101	8825434	192.79	ppb	90
9) Acetone	2.31	43	1638803	347.53	ppb	99
10) 1,1-Dichloroethene*	2.01	61	7006618	198.81	ppb	98
11) Acrylonitrile	2.65	53	7516931	191.91	ppb	99
12) Iodomethane	2.09	142	3910336	226.79	ppb	99
13) Methylene Chloride	2.29	84	2980988	173.80	ppb	94
14) Carbon Disulfide	2.04	76	4982607	207.51	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	2973849	204.36	ppb	98
16) Methyl-tert-butyl ether* (	2.41	73	6518349	193.39	ppb	# 100
17) 1,1-Dichloroethane*	2.67	63	8255984	194.92	ppb	99
18) Vinyl Acetate	2.77	43	4661810	172.38	ppb	98
19) N-Hexane	2.40	57	4729469	187.49	ppb	98
20) N-Butanol	2.76	57	2495298	186.40	ppb	99
21) 2-Butanone (MEK)	3.23	43	1842087	460.14	ppb	# 98
22) cis-1,2-Dichloroethene*	2.93	61	5748433	207.02	ppb	100
23) Bromochloromethane	3.04	128	956935	202.16	ppb	91
24) Chloroform*	3.06	83	7349042	203.67	ppb	99
25) 2-2-Dichloropropane	2.99	77	7358715	204.13	ppb	99
28) 1,2-Dichloroethane	3.50	62	5228713	193.06	ppb	99
29) 1,1,1-Trichloroethane*	3.19	97	7638138	207.95	ppb	96
30) 1,1-Dichloropropene	3.25	75	5223120	208.53	ppb	99
31) Carbon Tetrachloride	3.15	117	6979692	217.56	ppb	97
32) Benzene*	3.39	78	10314439	207.75	ppb	97
33) Dibromomethane	3.96	93	1712961	196.99	ppb	97
34) 1,2-Dichloropropane	4.01	63	2761206	210.04	ppb	97
35) Trichloroethene*	3.70	95	3665009	212.55	ppb	99
36) Bromodichloromethane	4.04	83	5207748	212.38	ppb	98
37) 2-Chloroethyl-vinyl ether	4.38	63	2811206	813.03	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	4332983	208.57	ppb	95
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	4611328	523.75	ppb	99
40) trans-1,3-Dichloropene	4.85	75	4071342	221.29	ppb	77
41) 1,1,2-Trichloroethane	4.97	83	1516746	206.14	ppb	97
43) Toluene*	4.58	91	12298208	212.21	ppb	96
44) Ethyl Methacrylate	4.94	69	354644	237.26	ppb	# 100
45) 1,3-Dichloropropane	5.17	76	3170153	209.47	ppb	98
46) 2-Hexanone	5.41	43	3243773	521.96	ppb	100
48) Dibromochloromethane	5.10	129	2557381	205.99	ppb	99
49) 1,2-Dibromoethane (EDB)	5.28	107	1900103	197.80	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0701007.D 022020RC.M Tue Feb 25 15:30:58 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0701007.D  
 Acq On : 20 Feb 2020 12:34 pm  
 Sample : 200ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:56 2020

Vial: 7  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:56:06 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	2706979	215.17	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.70	131	2683123	211.69	ppb	98
52) Chlorobenzene*	5.66	112	8446944	220.84	ppb	97
53) Ethyl Benzene*	5.67	91	14260604	176.18	ppb #	88
54) m,p-Xylene	5.77	91	17328213	274.14	ppb #	60
55) o-Xylene*	6.11	106	5128216	216.71	ppb	86
56) Bromoform	6.18	173	1176094	214.15	ppb	99
57) Styrene	6.15	104	8008079	223.90	ppb	94
58) 1,1,2,2-Tetrachloroethane	6.75	85	1260833	192.22	ppb	94
59) trans-1,4-Dichloro-2-buten	6.90	53	765284	198.94	ppb	98
60) 1,2,3-Trichloropropane	6.87	75	2875929	206.45	ppb #	92
61) Isopropylbenzene	6.35	105	13717836	177.80	ppb #	87
63) Bromobenzene	6.69	156	2551038	218.74	ppb	90
64) N-Propylbenzene*	6.69	91	14724490	143.81	ppb #	82
65) 2-Chlorotoluene	6.83	91	13023295	195.65	ppb	96
66) 4-Chlorotoluene	6.97	126	2845773	216.50	ppb	79
68) 1,3,5-Trimethylbenzene	6.85	105	12708202	188.01	ppb	90
69) tert-butylbenzene	7.12	119	12932744	213.83	ppb	99
70) 1,2,4-Trimethylbenzene	7.18	105	12445066	189.58	ppb	90
71) sec-Butylbenzene	7.27	105	14074536	159.65	ppb #	88
72) 1,3-Dichlorobenzene	7.47	146	5030141	221.79	ppb	98
73) 1,4-Dichlorobenzene	7.55	148	3102540	217.83	ppb	98
74) p-Isopropyltoluene	7.39	119	12379322	184.13	ppb	89
75) 1,2-Dichlorobenzene	7.93	146	4237854	219.84	ppb	97
76) N-Butylbenzene	7.76	91	13435716	171.03	ppb #	76
77) 1,2-Dibromo-3-chloropropan	8.65	155	172716	190.80	ppb	94
78) 1,2,4-Trichlorobenzene	9.28	180	2897315	220.77	ppb	99
79) Naphthalene	9.59	128	4347207	216.90	ppb	99
80) Hexachloro-1,3-butadiene	9.24	225	1631065	214.13	ppb	99
81) 1,2,3-Trichlorobenzene	9.76	180	2237192	213.73	ppb	100
82) 1-Methylnaphthalene	10.74	142	1735583	224.32	ppb	98
83) 2-Methylnaphthalene	10.59	142	2259356	252.26	ppb	100



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
 Acq On : 20 Feb 2020 12:51 pm  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Fluorobenzene (IS)	1.000	1.000	0.0	111	0.00
2	Dichlorodifluoromethane	1.414	1.510	-6.8	110	0.00
3	Chloromethane	0.881	0.918	-4.2	115	0.00
4 m	Vinyl Chloride*	1.139	1.176	-3.2	108	0.00
5	Bromomethane	1.088	1.141	-4.9	112	0.00
6	Chloroethane	0.741	0.783	-5.7	110	0.00
7	Acrolein	0.789	0.870	-10.3	113	0.00
8	Trichlorofluoromethane	2.863	3.140	-9.7	113	0.00
9	Acetone	0.248	0.245	1.2	101	0.00
10 m	1,1-Dichloroethene*	2.171	2.282	-5.1	108	0.00
11	Acrylonitrile	2.304	2.454	-6.5	110	0.00
12	Iodomethane	1.136	1.208	-6.3	112	0.00
13	Methylene Chloride	1.066	1.009	5.3	107	0.00
14	Carbon Disulfide	1.458	1.554	-6.6	112	0.00
15 m	trans-1,2-Dichloroethene*	0.889	0.952	-7.1	112	0.00
16 m	Methyl-tert-butyl ether* (M	2.075	2.299	-10.8	113	0.00
17 m	1,1-Dichloroethane*	2.598	2.767	-6.5	112	0.00
18	Vinyl Acetate	1.624	1.630	-0.4	109	0.00
19	N-Hexane	1.522	1.691	-11.1	111	0.00
20	N-Butanol	0.825	0.918	-11.3	114	0.00
21	2-Butanone (MEK)	0.251	0.275	-9.6	112	0.00
22 m	cis-1,2-Dichloroethene*	1.721	1.837	-6.7	112	0.00
23	Bromochloromethane	0.297	0.326	-9.8	113	0.00
24 m	Chloroform*	2.235	2.313	-3.5	109	0.00
25	2-2-Dichloropropane	2.203	2.253	-2.3	109	0.00
26 s	Dibromofluoromethane (SURR)	0.349	0.344	1.4	104	0.00
27 s	1,2-Dichloroethane-d4 (SURR)	0.452	0.448	0.9	104	0.00
28	1,2-Dichloroethane	1.661	1.754	-5.6	111	0.00
29 m	1,1,1-Trichloroethane*	2.233	2.287	-2.4	107	0.00
30	1,1-Dichloropropene	1.534	1.662	-8.3	110	0.00
31	Carbon Tetrachloride	1.889	1.931	-2.2	101	0.00
32 m	Benzene*	3.116	3.353	-7.6	114	0.00
33	Dibromomethane	0.542	0.571	-5.4	111	0.00
34	1,2-Dichloropropane	0.828	0.889	-7.4	112	0.00
35 m	Trichloroethene*	1.073	1.136	-5.9	113	0.00
36	Bromodichloromethane	1.513	1.635	-8.1	114	0.00
37	2-Chloroethyl-vinyl ether	0.228	0.230	-0.9	104	0.00
38	cis-1,3-Dichloropropene	1.296	1.352	-4.3	107	0.00
39	4-Methyl-2-Pentanone (MIBK)	0.596	0.644	-8.1	114	0.00
40	trans-1,3-Dichloropene	1.150	1.273	-10.7	116	0.00
41	1,1,2-Trichloroethane	0.466	0.502	-7.7	110	0.00
42 s	Toluene-d8 (SURR)	0.994	1.006	-1.2	109	0.00
43 m	Toluene*	3.666	3.953	-7.8	118	0.00
44	Ethyl Methacrylate	0.106	0.107	-0.9	110	0.00
45	1,3-Dichloropropane	0.956	1.055	-10.4	113	0.00
46	2-Hexanone	0.420	0.456	-8.6	112	0.00
47	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	111	0.00
48	Dibromochloromethane	1.112	1.250	-12.4	113	0.00
49	1,2-Dibromoethane (EDB)	0.862	0.955	-10.8	113	0.00
50	Tetrachloroethene	1.135	1.224	-7.8	116	0.00
51 m	1,1,1,2-Tetrachloroethane*	1.140	1.204	-5.6	114	0.00
52 m	Chlorobenzene*	3.454	3.619	-4.8	111	0.00
53 m	Ethyl Benzene*	7.238	7.924	-9.5	112	0.00
54	m,p-Xylene	6.100	6.208	-1.8	109	0.00
55 m	o-Xylene*	2.131	2.340	-9.8	113	0.00
56	Bromoform	0.480	0.560	-16.7	116	0.00
57	Styrene	3.252	3.511	-8.0	115	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
 Acq On : 20 Feb 2020 12:51 pm  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
58	1,1,2,2-Tetrachloroethane	0.589	0.657	-11.5	122	0.00
59	trans-1,4-Dichloro-2-butene	0.339	0.377	-11.2	109	0.00
60	1,2,3-Trichloropropane	1.127	1.316	-16.8	122	0.00
61	Isopropylbenzene	6.894	7.608	-10.4	108	0.00
62 s	4-Bromofluorobenzene (SURR)	0.589	0.583	1.0	106	0.00
63	Bromobenzene	1.052	1.112	-5.7	115	0.00
64 m	N-Propylbenzene*	9.109	9.829	-7.9	111	0.00
65	2-Chlorotoluene	5.913	6.394	-8.1	111	0.00
66	4-Chlorotoluene	1.185	1.270	-7.2	115	0.00
67	1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	115	0.00
68	1,3,5-Trimethylbenzene	15.331	15.946	-4.0	112	0.00
69	tert-butylbenzene	13.767	14.230	-3.4	113	0.00
70	1,2,4-Trimethylbenzene	14.907	15.949	-7.0	116	0.00
71	sec-Butylbenzene	20.421	21.647	-6.0	111	0.00
72	1,3-Dichlorobenzene	5.246	5.378	-2.5	114	0.00
73	1,4-Dichlorobenzene	3.299	3.431	-4.0	117	0.00
74	p-Isopropyltoluene	15.314	15.919	-4.0	112	0.00
75	1,2-Dichlorobenzene	4.457	4.662	-4.6	116	0.00
76	N-Butylbenzene	17.865	19.591	-9.7	111	0.00
77	1,2-Dibromo-3-chloropropane	0.207	0.241	-16.4	126	0.00
78	1,2,4-Trichlorobenzene	3.012	3.250	-7.9	117	0.00
79	Naphthalene	4.613	4.729	-2.5	106	0.00
80	Hexachloro-1,3-butadiene	1.734	1.867	-7.7	118	0.00
81	1,2,3-Trichlorobenzene	2.401	2.826	-17.7	125	0.00
82	1-Methylnaphthalene	1.990	2.000	-0.5	109	0.00
83	2-Methylnaphthalene	2.339	2.757	-17.9	125	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
 Acq On : 20 Feb 2020 12:51 pm  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 21 15:07 2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	823019	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	540370	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	220355	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	283197	49.25	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	98.50%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	368649	49.50	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	99.00%
42) Toluene-d8 (SURR)	4.55	98	828317	50.64	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	101.28%
62) 4-Bromofluorobenzene (SURR)	6.59	95	314956	49.47	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	98.94%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	1242589	53.39	ppb	91
3) Chloromethane	1.40	50	755198	52.08	ppb	99
4) Vinyl Chloride*	1.44	62	968255	51.62	ppb	100
5) Bromomethane	1.62	94	939146	52.46	ppb	98
6) Chloroethane	1.69	64	644051	52.80	ppb	100
7) Acrolein	2.38	56	716115	55.15	ppb	98
8) Trichlorofluoromethane	1.76	101	2584311	54.83	ppb	100
9) Acetone	2.31	43	503883	123.22	ppb	99
10) 1,1-Dichloroethene*	2.01	61	1877988	52.55	ppb	99
11) Acrylonitrile	2.65	53	2019519	53.26	ppb	98
12) Iodomethane	2.09	142	993827	53.15	ppb	99
13) Methylene Chloride	2.29	84	830155	47.33	ppb	99
14) Carbon Disulfide	2.04	76	1278603	53.27	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	783282	53.50	ppb	97
16) Methyl-tert-butyl ether* (	2.41	73	1892172	55.39	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	2277094	53.26	ppb	99
18) Vinyl Acetate	2.76	43	1341870	50.20	ppb	100
19) N-Hexane	2.39	57	1391500	55.55	ppb	99
20) N-Butanol	2.76	57	755138	55.60	ppb	99
21) 2-Butanone (MEK)	3.22	43	566076	136.76	ppb	# 97
22) cis-1,2-Dichloroethene*	2.93	61	1512230	53.38	ppb	99
23) Bromochloromethane	3.04	128	268161	54.88	ppb	93
24) Chloroform*	3.06	83	1903641	51.74	ppb	100
25) 2-2-Dichloropropane	2.99	77	1854625	51.15	ppb	99
28) 1,2-Dichloroethane	3.49	62	1443740	52.80	ppb	99
29) 1,1,1-Trichloroethane*	3.19	97	1881843	51.20	ppb	98
30) 1,1-Dichloropropene	3.25	75	1368161	54.18	ppb	100
31) Carbon Tetrachloride	3.15	117	1588861	51.10	ppb	97
32) Benzene*	3.38	78	2759826	53.80	ppb	99
33) Dibromomethane	3.96	93	469546	52.64	ppb	94
34) 1,2-Dichloropropane	4.01	63	731876	53.68	ppb	96
35) Trichloroethene*	3.70	95	934731	52.92	ppb	99
36) Bromodichloromethane	4.04	83	1345435	54.02	ppb	100
37) 2-Chloroethyl-vinyl ether	4.37	63	757621	201.80	ppb	98
38) cis-1,3-Dichloropropene	4.43	75	1112510	52.13	ppb	96
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	1324312	135.03	ppb	97
40) trans-1,3-Dichloropene	4.85	75	1047692	55.32	ppb	79
41) 1,1,2-Trichloroethane	4.97	83	413111	53.83	ppb	97
43) Toluene*	4.59	91	3253356	53.92	ppb	99
44) Ethyl Methacrylate	4.94	69	88235	50.42	ppb	# 99
45) 1,3-Dichloropropane	5.17	76	868271	55.21	ppb	100
46) 2-Hexanone	5.41	43	938806	135.68	ppb	98
48) Dibromochloromethane	5.10	129	675370	56.19	ppb	99
49) 1,2-Dibromoethane (EDB)	5.28	107	516217	55.42	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0801008.D 022020RC.M Tue Feb 25 15:31:12 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
 Acq On : 20 Feb 2020 12:51 pm  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 21 15:07 2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	661526	53.92	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.69	131	650716	52.82	ppb	98
52) Chlorobenzene*	5.66	112	1955501	52.39	ppb	98
53) Ethyl Benzene*	5.66	91	4281800	54.74	ppb	99
54) m,p-Xylene	5.77	91	6709447	101.78	ppb	99
55) o-Xylene*	6.11	106	1264585	54.90	ppb	96
56) Bromoform	6.18	173	302633	58.32	ppb	99
57) Styrene	6.14	104	1897456	54.00	ppb	98
58) 1,1,2,2-Tetrachloroethane	6.74	85	354996	55.76	ppb	91
59) trans-1,4-Dichloro-2-buten	6.89	53	203838	55.59	ppb	99
60) 1,2,3-Trichloropropane	6.87	75	711308m	58.38	ppb	
61) Isopropylbenzene	6.35	105	4111265	55.18	ppb	100
63) Bromobenzene	6.68	156	600767	52.82	ppb	94
64) N-Propylbenzene*	6.69	91	5311421	53.96	ppb	100
65) 2-Chlorotoluene	6.83	91	3455115	54.07	ppb	99
66) 4-Chlorotoluene	6.97	126	686382	53.58	ppb	95
68) 1,3,5-Trimethylbenzene	6.84	105	3513804	52.01	ppb	100
69) tert-butylbenzene	7.12	119	3135743	51.68	ppb	100
70) 1,2,4-Trimethylbenzene	7.18	105	3514509	53.49	ppb	99
71) sec-Butylbenzene	7.27	105	4769950	53.00	ppb	100
72) 1,3-Dichlorobenzene	7.47	146	1185129	51.26	ppb	100
73) 1,4-Dichlorobenzene	7.55	148	756005	52.00	ppb	98
74) p-Isopropyltoluene	7.39	119	3507921	51.98	ppb	99
75) 1,2-Dichlorobenzene	7.93	146	1027397	52.30	ppb	98
76) N-Butylbenzene	7.76	91	4316915	54.83	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.65	155	53030	58.24	ppb	97
78) 1,2,4-Trichlorobenzene	9.28	180	716132	53.94	ppb	97
79) Naphthalene	9.59	128	1042104	51.27	ppb	
80) Hexachloro-1,3-butadiene	9.24	225	411323	53.82	ppb	98
81) 1,2,3-Trichlorobenzene	9.76	180	622707	58.86	ppb	99
82) 1-Methylnaphthalene	10.74	142	440652	50.23	ppb	
83) 2-Methylnaphthalene	10.59	142	607467	58.93	ppb	

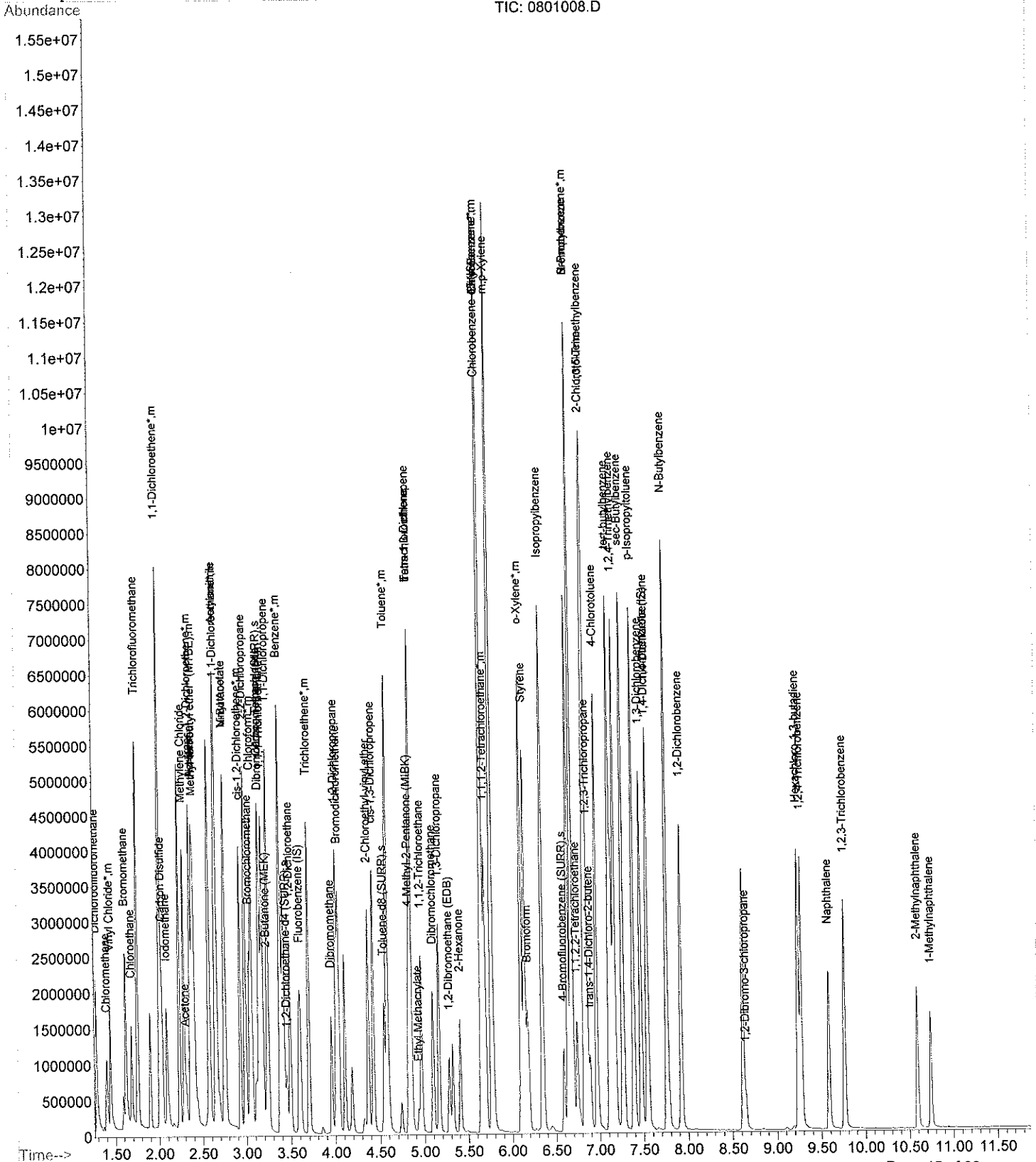
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
Acq On : 20 Feb 2020 12:51 pm  
Sample : 50ppb ICV 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 21 15:07 2020

Vial: 8  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration







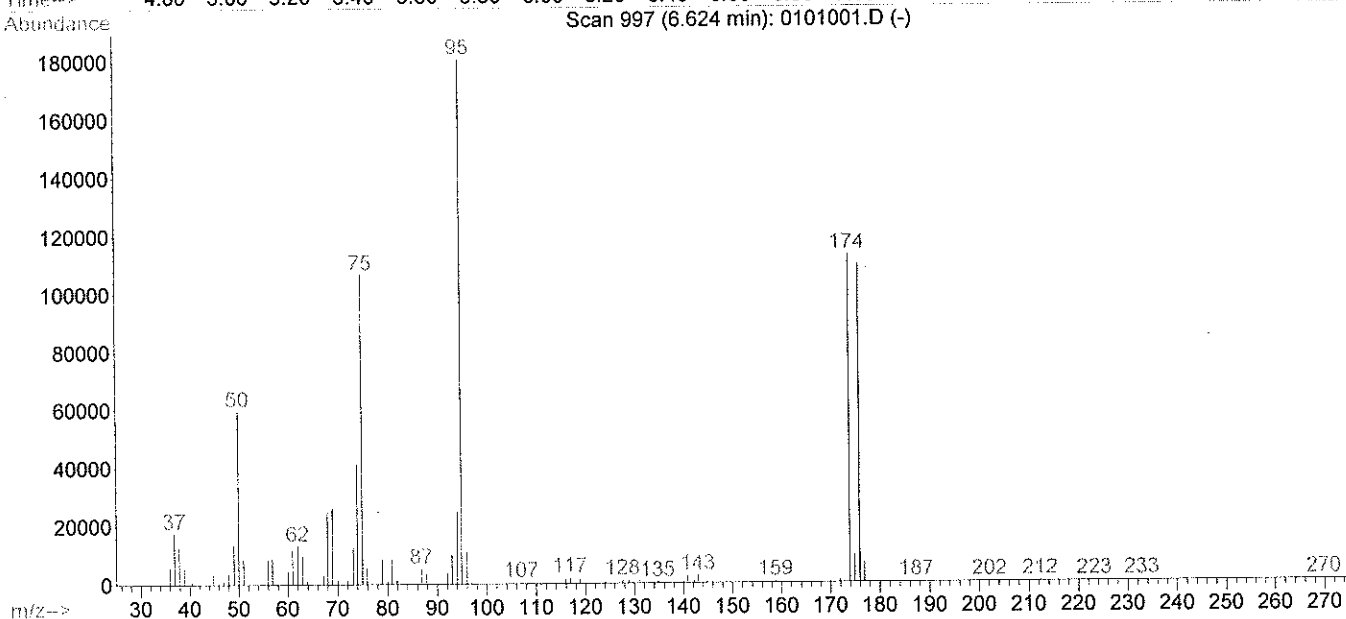
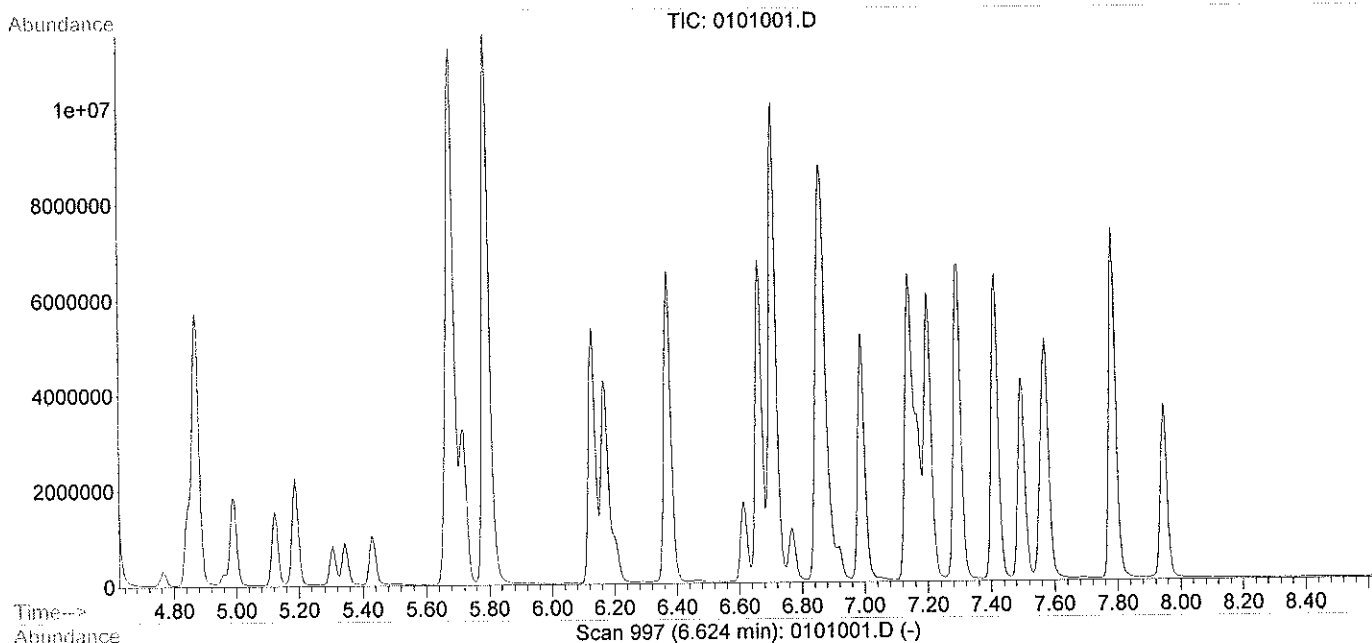
ENVISION Laboratories, Inc.  
1439 Sadler Circle West Drive  
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Tel: 317.351.8632  
Fax: 317.351.8639  
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## 8260 VOC Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

BFB

Data File : C:\HPCHEM\1\DATA\022520B\0101001.D Vial: 1  
Acq On : 25 Feb 2020 10:11 am Operator: gjd  
Sample : BFB/CCV 50ppb Inst : VOC 1  
Misc : 092319 VOC1 curve, 8260 ical Multiplr: 1.00  
MS Integration Params: rteint.p  
Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration



Spectrum Information: Scan 997

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	33.0	59607	PASS
75	95	30	60	59.1	106676	PASS
95	95	100	100	100.0	180522	PASS
96	95	5	9	6.1	10972	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.5	112872	PASS
175	174	5	9	8.4	9466	PASS
176	174	95	101	97.0	109526	PASS
177	176	4	9	6.4	7017	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022520B\0201002.D  
 Acq On : 25 Feb 2020 10:28 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 Fluorobenzene (IS)	1.000	1.000	0.0	112	0.01
2 Dichlorodifluoromethane	1.414	1.528	-8.1	112	0.02
3 Chloromethane	0.881	0.860	2.4	109	0.02
4 m Vinyl Chloride*	1.139	1.177	-3.3	109	0.02
5 Bromomethane	1.088	1.150	-5.7	113	0.02
6 Chloroethane	0.741	0.785	-5.9	111	0.02
7 Acrolein	0.789	0.819	-3.8	107	0.02
8 Trichlorofluoromethane	2.863	3.229	-12.8	117	0.02
9 Acetone	0.248	0.257	-3.6	107	0.02
10 m 1,1-Dichloroethene*	2.171	2.333	-7.5	111	0.02
11 Acrylonitrile	2.304	2.428	-5.4	110	0.02
12 Iodomethane	1.136	1.183	-4.1	110	0.02
13 Methylene Chloride	1.066	1.047	1.8	112	0.02
14 Carbon Disulfide	1.458	1.533	-5.1	111	0.02
15 m trans-1,2-Dichloroethene*	0.889	0.930	-4.6	110	0.02
16 m Methyl-tert-butyl ether* (M	2.075	2.068	0.3	102	0.02
17 m 1,1-Dichloroethane*	2.598	2.708	-4.2	110	0.02
18 Vinyl Acetate	1.624	1.522	6.3	102	0.02
19 N-Hexane	1.522	1.576	-3.5	104	0.02
20 N-Butanol	0.825	0.843	-2.2	105	0.02
21 2-Butanone (MEK)	0.251	0.238	5.2	97	0.02
22 m cis-1,2-Dichloroethene*	1.721	1.856	-7.8	113	0.02
23 Bromochloromethane	0.297	0.347	-16.8	121	0.02
24 m Chloroform*	2.235	2.412	-7.9	115	0.02
25 2-2-Dichloropropane	2.203	2.384	-8.2	116	0.02
26 s Dibromofluoromethane (SURR)	0.349	0.359	-2.9	109	0.02
27 s 1,2-Dichloroethane-d4 (SURR)	0.452	0.478	-5.8	112	0.02
28 1,2-Dichloroethane	1.661	1.625	2.2	104	0.01
29 m 1,1,1-Trichloroethane*	2.233	2.370	-6.1	112	0.02
30 1,1-Dichloropropene	1.534	1.604	-4.6	107	0.02
31 Carbon Tetrachloride	1.889	2.225	-17.8	117	0.02
32 m Benzene*	3.116	3.101	0.5	106	0.01
33 Dibromomethane	0.542	0.541	0.2	106	0.01
34 1,2-Dichloropropane	0.828	0.840	-1.4	106	0.00
35 m Trichloroethene*	1.073	1.095	-2.1	110	0.01
36 Bromodichloromethane	1.513	1.556	-2.8	110	0.00
37 2-Chloroethyl-vinyl ether	0.228	0.240	-5.3	109	0.00
38 cis-1,3-Dichloropropene	1.296	1.283	1.0	103	0.00
39 4-Methyl-2-Pentanone (MIBK)	0.596	0.526	11.7	94	0.00
40 trans-1,3-Dichloropene	1.150	1.127	2.0	103	0.00
41 1,1,2-Trichloroethane	0.466	0.450	3.4	100	0.00
42 s Toluene-d8 (SURR)	0.994	1.085	-9.2	118	0.00
43 m Toluene*	3.666	3.799	-3.6	114	0.00
44 Ethyl Methacrylate	0.106	0.092	13.2	95	0.00
45 1,3-Dichloropropane	0.956	0.938	1.9	101	0.00
46 2-Hexanone	0.420	0.391	6.9	97	0.00
47 Chlorobenzene-d5 (IS)	1.000	1.000	0.0	117	0.00
48 Dibromochloromethane	1.112	1.113	-0.1	106	0.00
49 1,2-Dibromoethane (EDB)	0.862	0.831	3.6	104	0.00
50 Tetrachloroethene	1.135	1.118	1.5	112	0.00
51 m 1,1,1,2-Tetrachloroethane*	1.140	1.120	1.8	111	0.00
52 m Chlorobenzene*	3.454	3.361	2.7	109	-0.01
53 m Ethyl Benzene*	7.238	7.421	-2.5	111	0.00
54 m,p-Xylene	6.100	5.925	2.9	109	0.00
55 m o-Xylene*	2.131	2.154	-1.1	110	0.00
56 Bromoform	0.480	0.500	-4.2	108	0.00
57 Styrene	3.252	3.180	2.2	110	-0.01

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022520B\0201002.D  
 Acq On : 25 Feb 2020 10:28 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
58	1,1,2,2-Tetrachloroethane	0.589	0.544	7.6	106	-0.01
59	trans-1,4-Dichloro-2-butene	0.339	0.333	1.8	101	-0.01
60	1,2,3-Trichloropropane	1.127	1.017	9.8	99	-0.01
61	Isopropylbenzene	6.894	7.227	-4.8	108	0.00
62 s	4-Bromofluorobenzene (SURR)	0.589	0.565	4.1	108	-0.01
63	Bromobenzene	1.052	1.052	0.0	115	-0.01
64 m	N-Propylbenzene*	9.109	9.551	-4.9	113	-0.01
65	2-Chlorotoluene	5.913	6.010	-1.6	109	-0.01
66	4-Chlorotoluene	1.185	1.236	-4.3	117	0.00
67	1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	120	-0.01
68	1,3,5-Trimethylbenzene	15.331	15.234	0.6	111	-0.01
69	tert-butylbenzene	13.767	13.569	1.4	113	0.00
70	1,2,4-Trimethylbenzene	14.907	14.995	-0.6	114	0.00
71	sec-Butylbenzene	20.421	20.838	-2.0	112	0.00
72	1,3-Dichlorobenzene	5.246	5.056	3.6	112	0.00
73	1,4-Dichlorobenzene	3.299	3.136	4.9	112	-0.01
74	p-Isopropyltoluene	15.314	15.160	1.0	111	-0.01
75	1,2-Dichlorobenzene	4.457	4.236	5.0	110	-0.01
76	N-Butylbenzene	17.865	18.690	-4.6	111	-0.01
77	1,2-Dibromo-3-chloropropane	0.207	0.177	14.5	97	-0.02
78	1,2,4-Trichlorobenzene	3.012	3.005	0.2	112	-0.02
79	Naphthalene	4.613	4.632	-0.4	109	-0.01
80	Hexachloro-1,3-butadiene	1.734	1.737	-0.2	115	-0.01
81	1,2,3-Trichlorobenzene	2.401	2.434	-1.4	113	-0.01
82	1-Methylnaphthalene	1.990	1.923	3.4	109	0.00
83	2-Methylnaphthalene	2.339	2.244	4.1	107	-0.01

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022520B\0201002.D  
 Acq On : 25 Feb 2020 10:28 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 10:52 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.62	96	828381	50.00	ppb	0.01
47) Chlorobenzene-d5 (IS)	5.64	117	567935	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.53	152	229837	50.00	ppb	-0.01

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.17	113	297653	51.43	ppb	0.02
Spiked Amount	50.000	Range	54 - 140	Recovery	=	102.86%
27) 1,2-Dichloroethane-d4 (SUR)	3.47	65	395645	52.78	ppb	0.02
Spiked Amount	50.000	Range	54 - 138	Recovery	=	105.56%
42) Toluene-d8 (SURR)	4.55	98	899170	54.61	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	109.22%
62) 4-Bromofluorobenzene (SURR)	6.58	95	320820	47.94	ppb	-0.01
Spiked Amount	50.000	Range	69 - 131	Recovery	=	95.88%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	1265837	54.04	ppb	90
3) Chloromethane	1.42	50	712231	48.80	ppb	99
4) Vinyl Chloride*	1.46	62	975308	51.66	ppb	99
5) Bromomethane	1.64	94	952442	52.86	ppb	98
6) Chloroethane	1.70	64	650012	52.94	ppb	98
7) Acrolein	2.41	56	678608	51.92	ppb	99
8) Trichlorofluoromethane	1.77	101	2674986	56.39	ppb	99
9) Acetone	2.33	43	533229	129.56	ppb	99
10) 1,1-Dichloroethene*	2.03	61	1932721	53.73	ppb	99
11) Acrylonitrile	2.67	53	2011333	52.70	ppb	99
12) Iodomethane	2.11	142	980019	52.08	ppb	99
13) Methylene Chloride	2.31	84	866989	49.11	ppb	97
14) Carbon Disulfide	2.06	76	1269525	52.55	ppb	# 100
15) trans-1,2-Dichloroethene*	2.38	96	770169	52.26	ppb	95
16) Methyl-tert-butyl ether* (	2.43	73	1713076	49.83	ppb	# 100
17) 1,1-Dichloroethane*	2.69	63	2243468	52.13	ppb	99
18) Vinyl Acetate	2.78	43	1260758	46.86	ppb	99
19) N-Hexane	2.41	57	1305509	51.78	ppb	98
20) N-Butanol	2.78	57	697955	51.06	ppb	98
21) 2-Butanone (MEK)	3.24	43	493778	118.52	ppb	# 99
22) cis-1,2-Dichloroethene*	2.95	61	1537714	53.93	ppb	98
23) Bromochloromethane	3.06	128	287179	58.40	ppb	88
24) Chloroform*	3.08	83	1998102	53.95	ppb	100
25) 2-2-Dichloropropane	3.01	77	1975084	54.12	ppb	99
28) 1,2-Dichloroethane	3.50	62	1346048	48.91	ppb	99
29) 1,1,1-Trichloroethane*	3.20	97	1963036	53.06	ppb	98
30) 1,1-Dichloropropene	3.26	75	1328555	52.27	ppb	100
31) Carbon Tetrachloride	3.16	117	1843138	58.90	ppb	99
32) Benzene*	3.40	78	2568923	49.76	ppb	99
33) Dibromomethane	3.97	93	448318	49.93	ppb	98
34) 1,2-Dichloropropane	4.02	63	695618	50.69	ppb	99
35) Trichloroethene*	3.71	95	907065	51.02	ppb	99
36) Bromodichloromethane	4.04	83	1288692	51.41	ppb	99
37) 2-Chloroethyl-vinyl ether	4.37	63	793990m	210.11	ppb	
38) cis-1,3-Dichloropropene	4.43	75	1063201	49.50	ppb	98
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	1089225	110.34	ppb	97
40) trans-1,3-Dichloropene	4.85	75	933226	48.96	ppb	81
41) 1,1,2-Trichloroethane	4.97	83	372888	48.28	ppb	98
43) Toluene*	4.58	91	3147358	51.82	ppb	99
44) Ethyl Methacrylate	4.94	69	76072	43.19	ppb	# 93
45) 1,3-Dichloropropane	5.17	76	776922	49.08	ppb	100
46) 2-Hexanone	5.40	43	810506	116.38	ppb	98
48) Dibromochloromethane	5.10	129	632162	50.04	ppb	99
49) 1,2-Dibromoethane (EDB)	5.28	107	472195	48.23	ppb	99

(#) = qualifier out of range (m) = manual integration  
 0201002.D 022020RC.M Tue Feb 25 13:15:12 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022520B\0201002.D  
 Acq On : 25 Feb 2020 10:28 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 10:52 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	634734	49.22	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.69	131	636312	49.14	ppb	98
52) Chlorobenzene*	5.65	112	1908588	48.65	ppb	99
53) Ethyl Benzene*	5.65	91	4214426	51.26	ppb	99
54) m,p-Xylene	5.76	91	6729752	97.13	ppb	99
55) o-Xylene*	6.10	106	1223385	50.54	ppb	99
56) Bromoform	6.18	173	284147	52.10	ppb	99
57) Styrene	6.14	104	1806171	48.90	ppb	97
58) 1,1,2,2-Tetrachloroethane	6.74	85	308852	46.16	ppb	95
59) trans-1,4-Dichloro-2-buten	6.89	53	188995	49.04	ppb	100
60) 1,2,3-Trichloropropane	6.86	75	577392	45.09	ppb #	93
61) Isopropylbenzene	6.34	105	4104607	52.41	ppb	100
63) Bromobenzene	6.68	156	597499	49.99	ppb	95
64) N-Propylbenzene*	6.68	91	5424121	52.43	ppb	99
65) 2-Chlorotoluene	6.82	91	3413388	50.82	ppb	99
66) 4-Chlorotoluene	6.96	126	701903	52.14	ppb	94
68) 1,3,5-Trimethylbenzene	6.84	105	3501360	49.68	ppb	99
69) tert-butylbenzene	7.11	119	3118620	49.28	ppb	99
70) 1,2,4-Trimethylbenzene	7.17	105	3446405	50.29	ppb	100
71) sec-Butylbenzene	7.26	105	4789311	51.02	ppb	99
72) 1,3-Dichlorobenzene	7.47	146	1161964	48.18	ppb	99
73) 1,4-Dichlorobenzene	7.54	148	720700	47.52	ppb	96
74) p-Isopropyltoluene	7.38	119	3484403	49.50	ppb	99
75) 1,2-Dichlorobenzene	7.91	146	973597	47.52	ppb	99
76) N-Butylbenzene	7.75	91	4295755	52.31	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.63	155	40758	42.92	ppb	94
78) 1,2,4-Trichlorobenzene	9.26	180	690743	49.88	ppb	99
79) Naphthalene	9.58	128	1064641	50.21	ppb	99
80) Hexachloro-1,3-butadiene	9.23	225	399128	50.07	ppb	97
81) 1,2,3-Trichlorobenzene	9.75	180	559474	50.70	ppb	98
82) 1-Methylnaphthalene	10.74	142	441867	48.29	ppb	99
83) 2-Methylnaphthalene	10.58	142	515800	47.97	ppb	97

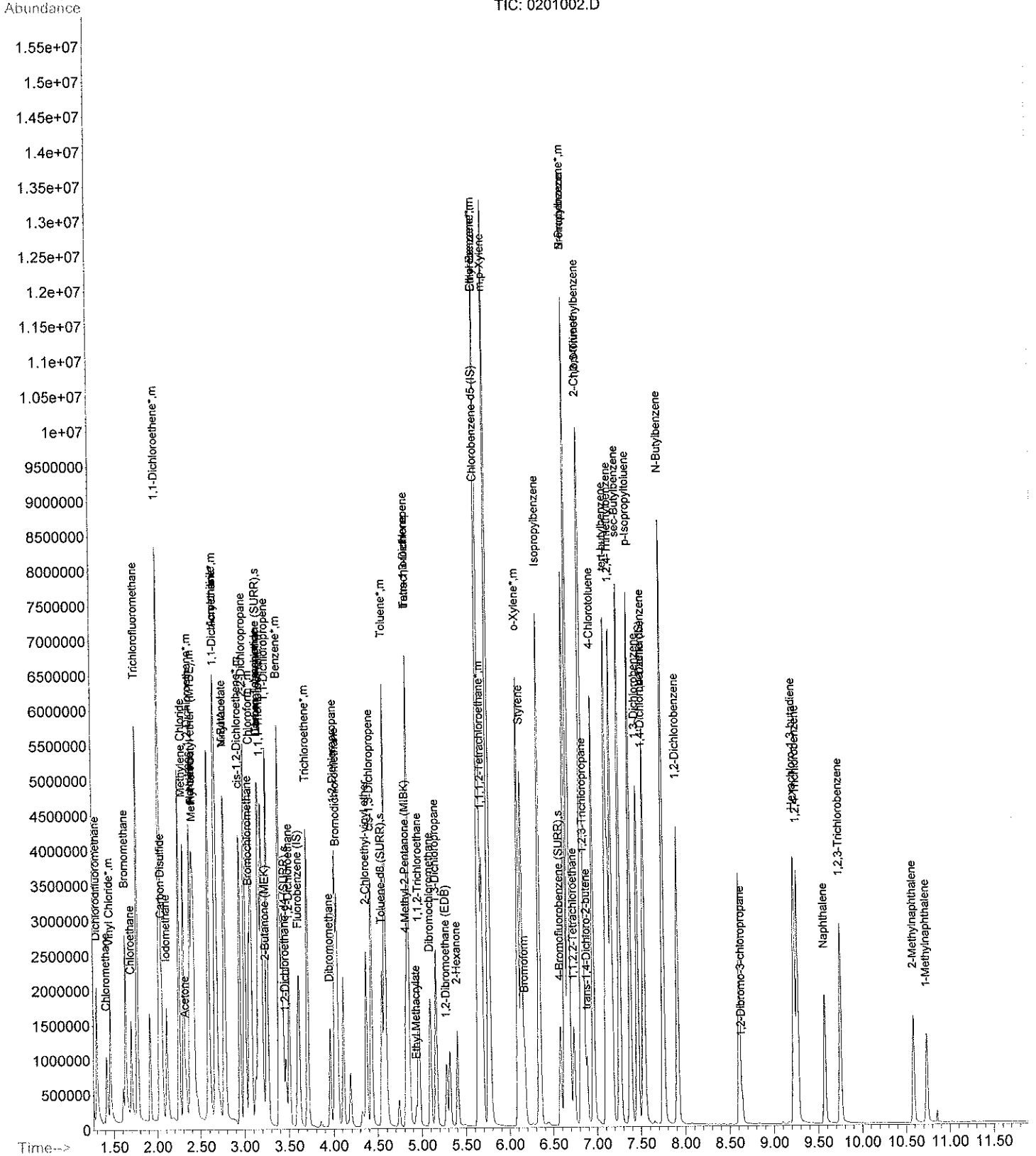
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022520B\0201002.D  
Acq On : 25 Feb 2020 10:28 am  
Sample : BFB/CCV 50ppb  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 25 10:52 2020

Vial: 2  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\022520B\0201002.D  
 Tune Time : 25 Feb 2020 10:28 am

Daily Calibration File : C:\HPCHEM\1\DATA\022520B\0201002.D

828381 567935 229837

File	Sample	Surrogate Recovery %				Internal Standard Responses		
0301003.D	LCS 50pp	116	111	116	108	828106	542655	211086
0401004.D	MB	100	102	98	97	879960	537083	185499
0501005.D	2676 ru	108	99	98	98	803939	482003	157956

t - fails 12hr time check \* - fails criteria

Created: Tue Feb 25 15:27:29 2020 VOC 1





ENVision Laboratories, Inc.  
1439 Sadler Circle West Drive  
Indianapolis, IN 46239  
Tel: 317.351.8632  
Fax: 317.351.8639  
[www.envisionlaboratories.com](http://www.envisionlaboratories.com)

## 8260 VOC Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022520B\0401004.D  
 Acq On : 25 Feb 2020 11:01 am  
 Sample : MB  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 13:14 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	879960	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	537083	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.53	152	185499	50.00	ppb	0.00

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.16	113	308140	50.12	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	100.24%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	404694	50.82	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	101.64%
42) Toluene-d8 (SURR)	4.55	98	857977	49.06	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	98.12%
62) 4-Bromofluorobenzene (SURR)	6.59	95	306179	48.38	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	96.76%

Target Compounds Qvalue

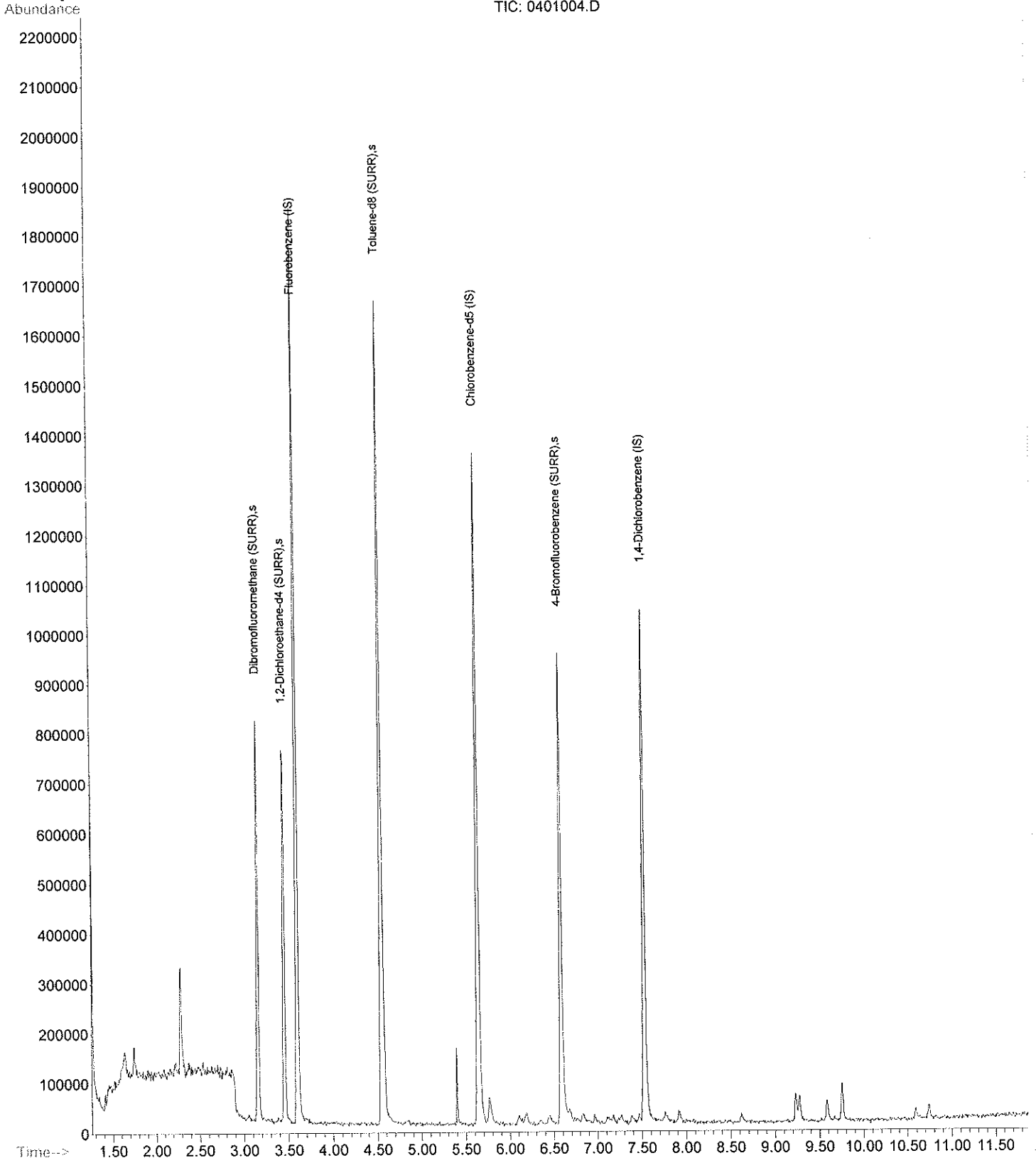
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022520B\0401004.D  
Acq On : 25 Feb 2020 11:01 am  
Sample : MB  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 25 13:14 2020

Vial: 4  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022520B\0301003.D  
 Acq On : 25 Feb 2020 10:45 am  
 Sample : LCS 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 11:01 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	828106	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	542655	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.53	152	211086	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	335213	57.94	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	115.88%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	416244	55.54	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	111.08%
42) Toluene-d8 (SURR)	4.55	98	951632	57.82	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	115.64%
62) 4-Bromofluorobenzene (SURR)	6.58	95	346750	54.23	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	108.46%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1217469	51.99	ppb	
3) Chloromethane	1.41	50	777210	53.27	ppb	# 94
4) Vinyl Chloride*	1.45	62	960454	50.89	ppb	95
5) Bromomethane	1.62	94	958238	53.20	ppb	99
6) Chloroethane	1.69	64	589479	48.03	ppb	97
7) Acrolein	2.39	56	663097	50.75	ppb	99
8) Trichlorofluoromethane	1.75	101	2497070	52.66	ppb	100
9) Acetone	2.31	43	530103	128.84	ppb	99
10) 1,1-Dichloroethene*	2.01	61	1841721	51.22	ppb	99
11) Acrylonitrile	2.65	53	1950440	51.12	ppb	100
12) Iodomethane	2.09	142	975497	51.85	ppb	99
13) Methylene Chloride	2.29	84	835511	47.34	ppb	95
14) Carbon Disulfide	2.04	76	1228304	50.86	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	757974	51.45	ppb	97
16) Methyl-tert-butyl ether* (	2.41	73	1773828	51.61	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	2207718	51.32	ppb	99
18) Vinyl Acetate	2.77	43	1321935	49.15	ppb	100
19) N-Hexane	2.39	57	1310842	52.01	ppb	100
20) N-Butanol	2.75	57	679555	49.73	ppb	98
21) 2-Butanone (MEK)	3.22	43	517603	124.28	ppb	# 98
22) cis-1,2-Dichloroethene*	2.93	61	1405678	49.31	ppb	99
23) Bromochloromethane	3.03	128	252519	51.36	ppb	94
24) Chloroform*	3.06	83	1835364	49.57	ppb	99
25) 2-2-Dichloropropane	2.99	77	1822983	49.97	ppb	100
28) 1,2-Dichloroethane	3.49	62	1358948	49.40	ppb	99
29) 1,1,1-Trichloroethane*	3.18	97	1851143	50.05	ppb	99
30) 1,1-Dichloropropene	3.24	75	1299570	51.14	ppb	100
31) Carbon Tetrachloride	3.15	117	1700837	54.37	ppb	98
32) Benzene*	3.38	78	2564990	49.70	ppb	98
33) Dibromomethane	3.95	93	436617	48.64	ppb	97
34) 1,2-Dichloropropane	4.01	63	677539	49.39	ppb	98
35) Trichloroethene*	3.70	95	889331	50.04	ppb	99
36) Bromodichloromethane	4.04	83	1256729	50.15	ppb	100
37) 2-Chloroethyl-vinyl ether	4.37	63	790368	209.23	ppb	98
38) cis-1,3-Dichloropropene	4.42	75	1056203	49.19	ppb	99
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	1153448	116.88	ppb	97
40) trans-1,3-Dichloropene	4.85	75	958085	50.28	ppb	98
41) 1,1,2-Trichloroethane	4.97	83	384414	49.78	ppb	98
43) Toluene*	4.58	91	3023792	49.80	ppb	99
44) Ethyl Methacrylate	4.93	69	80697	45.83	ppb	# 93
45) 1,3-Dichloropropane	5.16	76	792649	50.09	ppb	99
46) 2-Hexanone	5.40	43	858082	123.25	ppb	99
48) Dibromochloromethane	5.09	129	608157	50.38	ppb	98
49) 1,2-Dibromoethane (EDB)	5.28	107	482728	51.60	ppb	99

Data File : C:\HPCHEM\1\DATA\022520B\0301003.D  
 Acq On : 25 Feb 2020 10:45 am  
 Sample : LCS 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 11:01 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	633380	51.41	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.69	131	647031	52.30	ppb	100
52) Chlorobenzene*	5.65	112	1882052	50.21	ppb	99
53) Ethyl Benzene*	5.66	91	4086346	52.02	ppb	99
54) m,p-Xylene	5.77	91	6465423	97.66	ppb	99
55) o-Xylene*	6.10	106	1210952	52.35	ppb	96
56) Bromoform	6.18	173	289136	55.48	ppb	97
57) Styrene	6.14	104	1821012	51.60	ppb	97
58) 1,1,2,2-Tetrachloroethane	6.74	85	307187	48.05	ppb	94
59) trans-1,4-Dichloro-2-buten	6.89	53	191560	52.02	ppb	95
60) 1,2,3-Trichloropropane	6.86	75	589027	48.14	ppb #	90
61) Isopropylbenzene	6.34	105	3994088	53.38	ppb	100
63) Bromobenzene	6.68	156	584734	51.20	ppb	92
64) N-Propylbenzene*	6.68	91	5163105	52.23	ppb	99
65) 2-Chlorotoluene	6.83	91	3323892	51.80	ppb	99
66) 4-Chlorotoluene	6.96	126	670370	52.11	ppb	94
68) 1,3,5-Trimethylbenzene	6.84	105	3373023	52.11	ppb	100
69) tert-butylbenzene	7.11	119	3078992	52.98	ppb	98
70) 1,2,4-Trimethylbenzene	7.17	105	3403247	54.08	ppb	99
71) sec-Butylbenzene	7.27	105	4670207	54.17	ppb	99
72) 1,3-Dichlorobenzene	7.47	146	1143999	51.65	ppb	99
73) 1,4-Dichlorobenzene	7.55	148	725673	52.10	ppb	97
74) p-Isopropyltoluene	7.39	119	3437046	53.16	ppb	100
75) 1,2-Dichlorobenzene	7.92	146	971038	51.60	ppb	98
76) N-Butylbenzene	7.76	91	4148458	55.00	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.64	155	41544	47.63	ppb	94
78) 1,2,4-Trichlorobenzene	9.27	180	708015	55.67	ppb	98
79) Naphthalene	9.58	128	1036634	53.24	ppb	100
80) Hexachloro-1,3-butadiene	9.23	225	393524	53.75	ppb	98
81) 1,2,3-Trichlorobenzene	9.75	180	558617	55.12	ppb	100
82) 1-Methylnaphthalene	10.73	142	413783	49.24	ppb	99
83) 2-Methylnaphthalene	10.59	142	480944	48.70	ppb	100

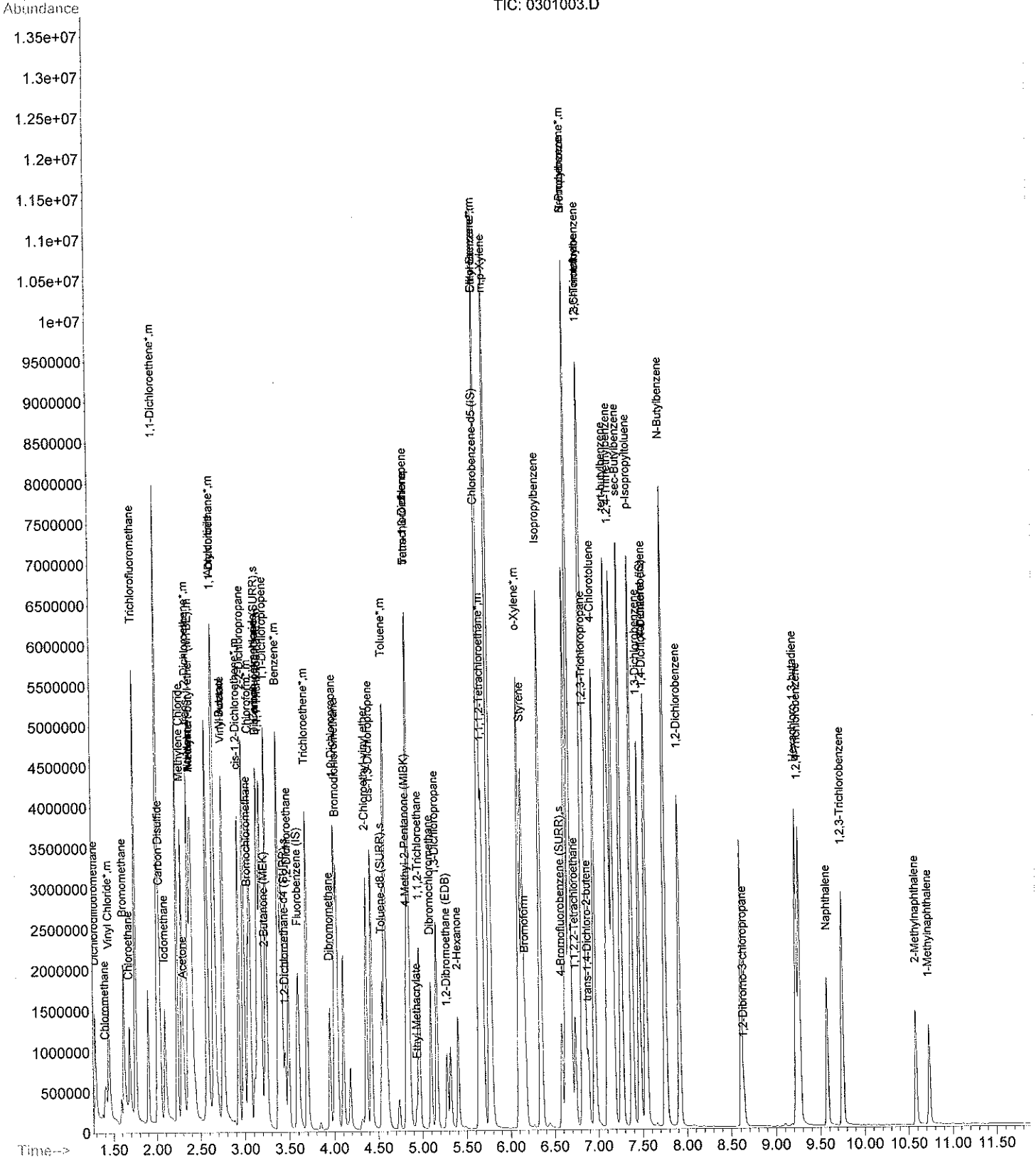
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022520B\0301003.D  
Acq On : 25 Feb 2020 10:45 am  
Sample : LCS 50ppb  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 25 11:01 2020

Vial: 3  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration





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## 8260 VOC

- Raw Sample Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022520B\0501005.D  
 Acq On : 25 Feb 2020 11:18 am  
 Sample : 2676 rush  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 13:16 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	803939	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.63	117	482003	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.53	152	157956	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.15	113	303258	53.99	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	107.98%
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	359637	49.43	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.86%
42) Toluene-d8 (SURR)	4.54	98	782653	48.98	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	97.96%
62) 4-Bromofluorobenzene (SURR)	6.58	95	276977	48.77	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	97.54%

Target Compounds

Qvalue



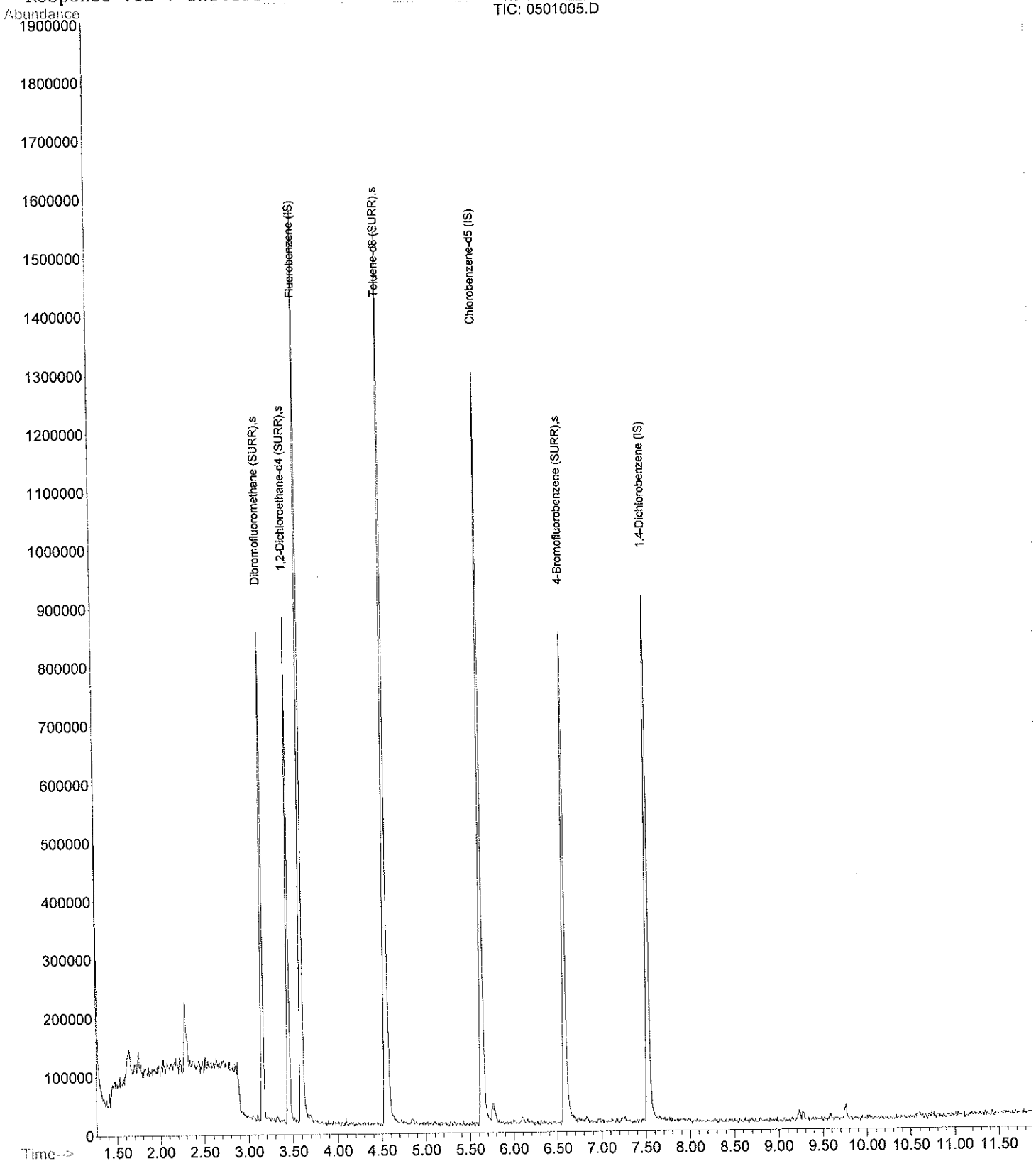
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022520B\0501005.D  
Acq On : 25 Feb 2020 11:18 am  
Sample : 2676 rush  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 25 13:16 2020

Vial: 5  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration





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Mr. Chuck Goodwin  
Ramboll  
One Indiana Square  
Suite 2335  
Indianapolis, IN 46204

February 26, 2020

ENVision Project Number: 2020-414  
Client Project Name: Reed Manufacturing

Dear Mr. Goodwin,

Please find the attached analytical report for the samples received February 25, 2020. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1. All soils collected via Method 5035A are frozen at the laboratory upon receipt.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is fluid and cursive, with the first letters of "David" and "Norris" being capitalized and prominent.

David Norris

Client Services Manager  
ENVision Laboratories, Inc.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-414

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5035A  
**Analytical Batch:** 022620VS

**Client Sample ID:** BACKFILL-2      **Sample Collection Date/Time:** 2/25/20 15:12  
**Envision Sample Number:** 20-2756      **Sample Received Date/Time:** 2/25/20 16:39  
**Sample Matrix:** soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.104	0.104	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.052	0.052	
2-Butanone (MEK)	< 0.010	0.010	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.052	0.052	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00029	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.104	0.104	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.010	0.010	
2-Hexanone	< 0.010	0.010	
Iodomethane	< 0.010	0.010	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.010	0.010	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.010	0.010	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.010	0.010	
Dibromofluoromethane (surrogate)	110%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	2-26-20/11:28		
Analyst Initials	gjd		

Percent Solids: 96%

All results reported on dry weight basis.



**Client Name:** RAMBOLL  
**Project ID:** REED MANUFACTURING  
**Client Project Manager:** CHUCK GOODWIN  
**ENVision Project Number:** 2020-414

**Client Sample ID:** BACKFILL-2      **Sample Collection Date/Time:** 2/25/20 15:12  
**Envision Sample Number:** 20-2756      **Sample Received Date/Time:** 2/25/20 16:39  
**Sample Matrix:** soil

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	4.0%		EPA 1684
Percent Solids	96.0%		EPA 1684
Analysis Date:	2/26/20		
Analyst Initials	jc		



**EPA 8260 Quality Control Data**

ENVision Batch Number: 022620VS

<b><u>Method Blank (MB):</u></b>	<b><u>MB Results (ug/kg)</u></b>	<b><u>Rep Lim (ug/kg)</u></b>	<b><u>Flag</u></b>
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



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**8260 QC Continued...**

<u>Method Blank (MB)</u>	<u>MB Results (ug/kg)</u>	<u>Rep Lim (ug/kg)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	100%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	2-26-20/11:11		
Analyst Initials	gjd		



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8260 QC Continued...

<u>LCS/LCSD:</u>	<u>LCS Results (ug/kg)</u>	<u>LCS/LCSD Conc. (ug/kg)</u>	<u>LCSD Result (ug/kg)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	50.7	50	49.6	101%	99%	2.2	
1,1-Dichloroethene	52.1	50	47.8	104%	96%	8.6	
trans-1,2-Dichloroethene	52.5	50	51.0	105%	102%	2.9	
Methyl-tert-butyl ether	50.9	50	47.6	102%	95%	6.7	
1,1-Dichloroethane	50.9	50	49.1	102%	98%	3.6	
cis-1,2-Dichloroethene	49.3	50	46.5	99%	93%	5.8	
Chloroform	48.5	50	46.0	97%	92%	5.3	
1,1,1-Trichloroethane	51.6	50	48.0	103%	96%	7.2	
Benzene	48.5	50	45.1	97%	90%	7.3	
Trichloroethene	49.9	50	45.3	100%	91%	9.7	
Toluene	50.2	50	45.6	100%	91%	9.6	
1,1,1,2-Tetrachloroethane	49.1	50	47.6	98%	95%	3.1	
Chlorobenzene	48.7	50	45.9	97%	92%	5.9	
Ethylbenzene	51.2	50	48.3	102%	97%	5.8	
o-Xylene	48.4	50	48.3	97%	97%	0.2	
n-Propylbenzene	51.1	50	48.3	102%	97%	5.6	
Dibromofluoromethane (surrogate)	116%		111%				
1,2-Dichloroethane-d4 (surrogate)	116%		109%				
Toluene-d8 (surrogate)	115%		112%				
4-bromofluorobenzene (surrogate)	109%		113%				
Analysis Date/Time:	2-26-20/10:37		2-26-20/10:54				
Analyst Initials	gjd		gjd				





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**Flag Number**

1

**Comments**

Reported value is below the reporting limit but above the MDL.



## 5035 CHECK-IN SHEET

Client Name: RAMBOLL

ENVision project#: 2020-414

Cooler Temp: 4 °C

Method 5035A used: YES X NO

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES X NO

5035A samples were received within 48 hrs of collection: YES X NO

5035A samples were frozen within 48 hrs of collection by lab: YES X NO   
If NO, did client freeze samples? YES  NO

**5035A Table A.1 Reference:**

Sample is extruded into an empty sealed vial and cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$  for no more than 48 hours then frozen to  $< -7^{\circ}\text{C}$  upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES X NO

**5035A Table A.1 Reference:**

Sample is extruded into an empty sealed vial and cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$  for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: LISA LAWSON 02-25-20



ENVision Laboratories, Inc.  
 1439 Sadlier Circle West Drive  
 Indianapolis, IN 46239  
 Tel: 317.351.8632  
 Fax: 317.351.8639  
 www.envisionlaboratories.com

8260 VOC  
Package Review

ENVision Project#: 2020-414

- Sequence Log
- 8260 Soil / Water Limits

Initial Calibration Data

Calibration Curve: 022020RC VOC 1 ✓

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary

Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- NA Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Raw Sample Data (if applicable – Level IV)

*The contents of this Level QA/QC package have been reviewed for completeness and compliance with method requirements.*

QA Manager Signature of approval: Cheryl Cum



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## 8260 VOC

- Sequence Log
- 8260 Soil / Water Limits

# Injection Log

Directory: C:\HPCHEM\1\DATA\022620

VOC  
Soil  
"RCG"

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	26 Feb 2020 10:20
2	2	0201002.D	1.	BFB/CCV 50ppb	092319 VOC1 curve, 8260 ical	26 Feb 2020 10:37
3	3	0301003.D	1.	LCS 50ppb	092319 VOC1 curve, 8260 ical	26 Feb 2020 10:54
4	4	0401004.D	1.	MB	092319 VOC1 curve, 8260 ical	26 Feb 2020 11:11
5	5	0501005.D	1.	2756 rush ✓	092319 VOC1 curve, 8260 ical	26 Feb 2020 11:28
6		0601006.D	1.			



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8260 Volatiles Statistical Control Limits - Effective 11/2016

Surrogate	Water Limits % Rec.	Soil Limits % Rec.
Dibromofluoromethane (surrogate)	73-125	72-128
1,2-Dichloroethane-d4 (surrogate)	74-124	71-129
Toluene-d8 (surrogate)	73-126	70-128
4-bromofluorobenzene (surrogate)	75-125	74-127

LCS	Water Limits % Rec.	Soil Limits % Rec.
Vinyl Chloride	79-127	76-132
1,1-Dichloroethene	79-122	75-123
trans-1,2-Dichloroethene	79-125	72-123
Methyl-tert-butyl-ether	71-122	75-128
1,1-Dichloroethane	78-120	72-122
cis-1,2-Dichloroethene	78-121	76-122
Chloroform	77-120	79-125
1,1,1-Trichloroethane	72-122	75-129
Benzene	78-127	72-126
Trichloroethene	79-120	72-122
Toluene	79-122	73-120
1,1,1,2-Tetrachloroethane	76-121	72-121
Chlorobenzene	79-125	73-127
Ethylbenzene	79-122	74-125
o-Xylene	78-122	79-129
N-propylbenzene	78-125	76-128

MS/MSD	Water Limits % Rec.	Soil Limits % Rec.
Vinyl Chloride	78-12	72-136
1,1-Dichloroethene	79-123	73-127
trans-1,2-Dichloroethene	79-125	62-129
Methyl-tert-butyl-ether	71-122	64-124
1,1-Dichloroethane	77-124	71-123
cis-1,2-Dichloroethene	79-122	78-127
Chloroform	79-121	69-122
1,1,1-Trichloroethane	70-122	69-122
Benzene	78-130	78-127
Trichloroethene	78-124	79-122
Toluene	78-126	65-147
1,1,1,2-Tetrachloroethane	79-120	71-121
Chlorobenzene	79-123	75-113
Ethylbenzene	78-120	72-114
o-Xylene	77-122	75-126
N-propylbenzene	77-120	74-122



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## 8260 VOC Initial Calibration Data

- Tune
- Initial Calibration Summary
- Initial Calibration Quant Reports
- Initial Calibration Verification Summary



# Injection Log

Directory: C:\HPCHEM\1\DATA\022020C  
 022020RC - VOC1

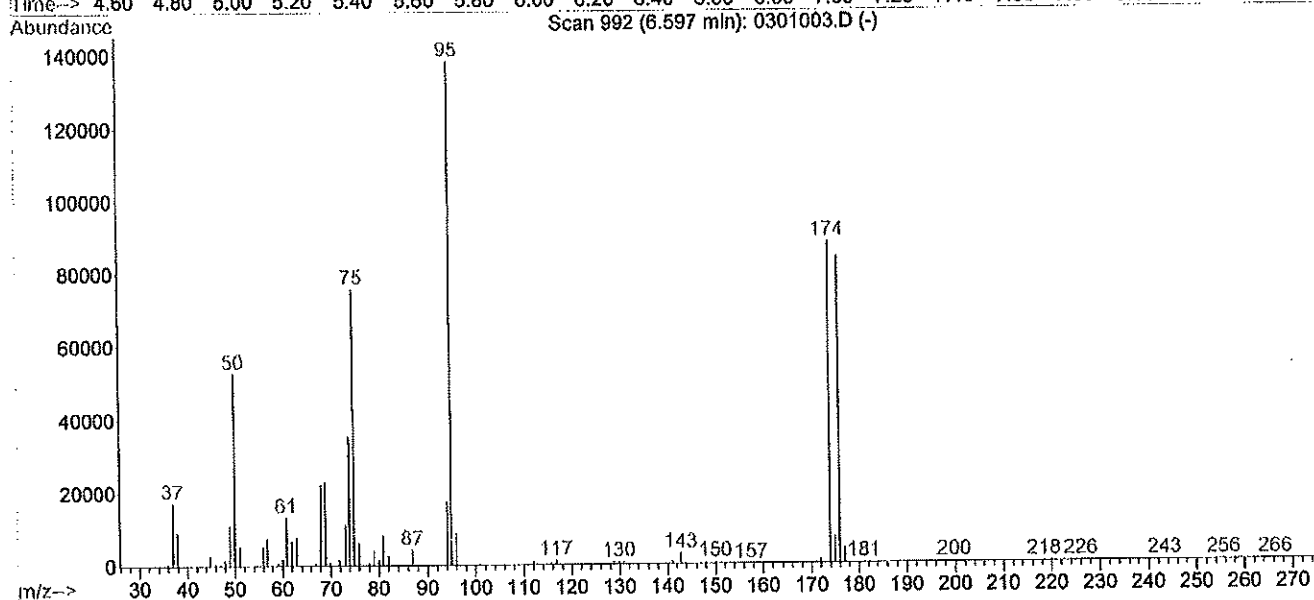
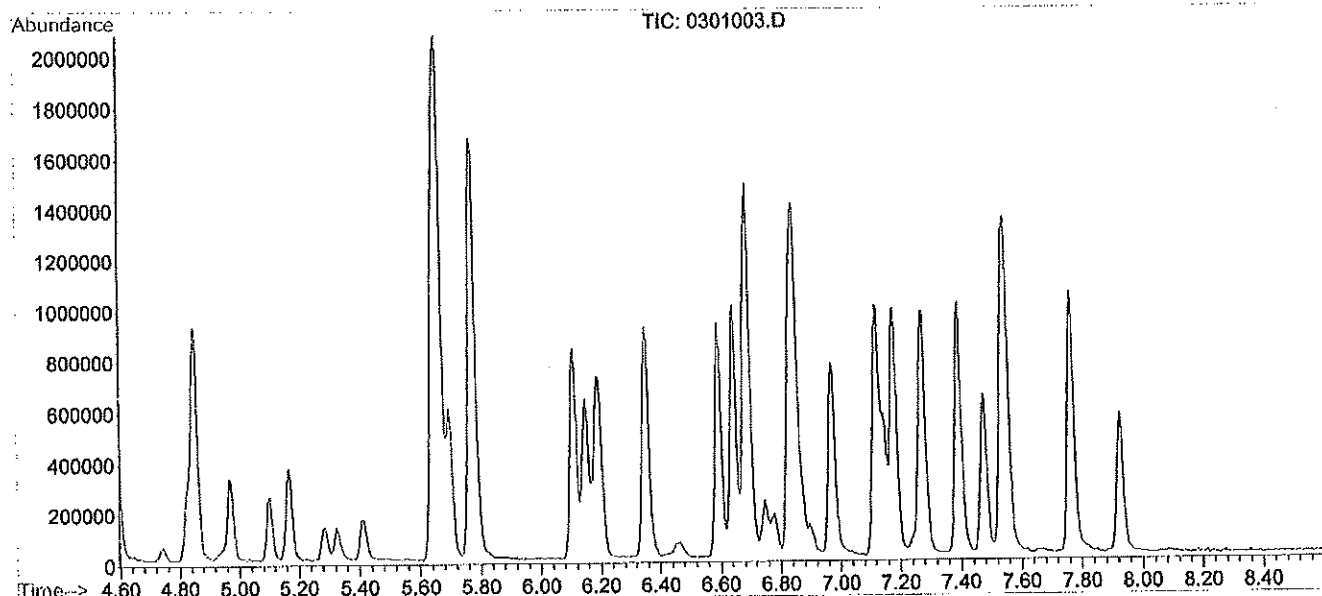
8260 CURVE

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0101001.D	1.	1ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 10:54
2	2	0201002.D	1.	5ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 11:10
3	3	0301003.D	1.	10ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 11:27
4	4	0401004.D	1.	20ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 11:44
5	5	0501005.D	1.	50ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 12:01
6	6	0601006.D	1.	100ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 12:18
7	7	0701007.D	1.	200ppb 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 12:34
8	8	0801008.D	1.	50ppb ICV 8260 ical	092319 VOC1 curve, 8260 ical	20 Feb 2020 12:51
9	9	0901009.D	1.	MB	092319 VOC1 curve, 8260 ical	20 Feb 2020 13:08
10	10	1001010.D	1.	2405	092319 VOC1 curve, 8260 ical	20 Feb 2020 13:25
11	11	1101011.D	1.	2285	092319 VOC1 curve, 8260 ical	20 Feb 2020 13:42
12	12	1201012.D	1.	2286	092319 VOC1 curve, 8260 ical	20 Feb 2020 13:59
13	13	1301013.D	1.	2287	092319 VOC1 curve, 8260 ical	20 Feb 2020 14:16
14	14	1401014.D	1.	2288	092319 VOC1 curve, 8260 ical	20 Feb 2020 14:33
15	15	1501015.D	1.	2289	092319 VOC1 curve, 8260 ical	20 Feb 2020 14:50
16	16	1601016.D	1.	2290	092319 VOC1 curve, 8260 ical	20 Feb 2020 15:06
17	17	1701017.D	1.	2291	092319 VOC1 curve, 8260 ical	20 Feb 2020 15:23
18	18	1801018.D	1.	2292	092319 VOC1 curve, 8260 ical	20 Feb 2020 15:40
19	19	1901019.D	1.	2293	092319 VOC1 curve, 8260 ical	20 Feb 2020 15:57
20	20	2001020.D	1.	2294	092319 VOC1 curve, 8260 ical	20 Feb 2020 16:14
21	21	2101021.D	1.	2295	092319 VOC1 curve, 8260 ical	20 Feb 2020 16:31
22	22	2201022.D	1.	2296	092319 VOC1 curve, 8260 ical	20 Feb 2020 16:48
23	23	2301023.D	1.	2343	092319 VOC1 curve, 8260 ical	20 Feb 2020 17:04
24	24	2401024.D	1.	2344	092319 VOC1 curve, 8260 ical	20 Feb 2020 17:21
25	25	2501025.D	1.	2345	092319 VOC1 curve, 8260 ical	20 Feb 2020 17:38
26	26	2601026.D	1.	2346	092319 VOC1 curve, 8260 ical	20 Feb 2020 17:55
27	27	2701027.D	1.	2347	092319 VOC1 curve, 8260 ical	20 Feb 2020 18:12
28	28	2801028.D	1.	2348	092319 VOC1 curve, 8260 ical	20 Feb 2020 18:29
29	29	2901029.D	1.	2349	092319 VOC1 curve, 8260 ical	20 Feb 2020 18:45

BFB

Data File : C:\HPCHEM\1\DATA\022020C\0301003.D  
Acq On : 20 Feb 2020 11:27 am  
Sample : 10ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration

Vial: 3  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00



Spectrum Information: Scan 992

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	38.2	52725	PASS
75	95	30	60	54.8	75758	PASS
95	95	100	100	100.0	138153	PASS
96	95	5	9	6.5	9046	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.8	88168	PASS
175	174	5	9	8.2	7262	PASS
176	174	95	101	95.2	83928	PASS
177	176	4	9	5.0	4209	PASS

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration

Calibration Files  
 20 =0401004.D 50 =0501005.D 100 =0601006.D  
 200 =0701007.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
-----ISTD-----								
1) Fluorobenzene (IS)								
2) Dichlorodifluoromet	1.463	1.524	1.563	1.485	1.197	1.251	1.414	10.73
3) Chloromethane	0.866	0.884	0.983	0.979	0.862	0.710	0.881	11.36
4) m Vinyl Chloride*	1.090	1.209	1.209	1.209	1.140	0.980	1.139	8.07
5) Bromomethane	1.047	1.135	1.116	0.988	1.257	0.982	1.088	9.57
6) Chloroethane	0.710	0.789	0.813	0.736	0.766	0.631	0.741	8.78
7) Acrolein	0.757	0.857	0.865	0.795	0.775	0.684	0.789	8.54
8) Trichlorofluorometh	2.819	3.090	3.267	2.858	2.678	2.467	2.863	9.97
9) Acetone	0.250	0.268	0.254	0.251	0.249	0.218	0.248	6.67
10) m 1,1-Dichloroethene*	2.098	2.345	2.416	2.269	1.994	1.905	2.171	9.38
11) Acrylonitrile	2.245	2.470	2.567	2.434	2.118	1.989	2.304	9.72
12) Iodomethane	0.969	1.197	1.261	1.266	1.130	0.992	1.136	11.49
13) Methylene Chloride	1.013	1.047	1.041	0.965	1.265	1.063	1.066	9.69
14) Carbon Disulfide	1.343	1.539	1.623	1.613	1.432	1.198	1.458	11.45
15) m trans-1,2-Dichloroe	0.842	0.943	0.966	0.963	0.872	0.750	0.889	9.55
16) m Methyl-tert-butyl e	1.916	2.254	2.316	2.111	1.987	1.868	2.075	8.81
17) m 1,1-Dichloroethane*	2.450	2.749	2.831	2.673	2.584	2.297	2.598	7.62
18) Vinyl Acetate	1.530	1.660	1.683	1.509	1.792	1.568	1.624	6.64
19) N-Hexane	1.454	1.695	1.678	1.531	1.409	1.362	1.522	9.16
20) N-Butanol	0.755	0.893	0.897	0.808	0.844	0.754	0.825	7.75
21) 2-Butanone (MEK)	0.242	0.273	0.275	0.239	0.269	0.210	0.251	10.27
22) m cis-1,2-Dichloroeth	1.580	1.827	1.936	1.861	1.675	1.447	1.721	10.85
23) Bromochloromethane	0.283	0.321	0.342	0.310	0.270	0.256	0.297	11.10
24) m Chloroform*	2.124	2.351	2.467	2.380	2.140	1.950	2.235	8.74
25) 2-2-Dichloropropane	2.074	2.297	2.404	2.383	2.085	1.974	2.203	8.24
26) s Dibromofluoromethan	0.358	0.368	0.338	0.343	0.349	0.340	0.349	3.35
27) s 1,2-Dichloroethane-	0.453	0.478	0.450	0.451	0.449	0.435	0.452	3.11
28) 1,2-Dichloroethane	1.538	1.753	1.882	1.693	1.655	1.445	1.661	9.32
29) m 1,1,1-Trichloroetha	2.122	2.373	2.473	2.473	2.062	1.895	2.233	10.79
30) 1,1-Dichloropropene	1.485	1.681	1.703	1.691	1.338	1.308	1.534	11.92
31) Carbon Tetrachlorid	1.875	2.116	2.228	1.936	1.645	1.534	1.889	14.09
32) m Benzene*	2.874	3.265	3.475	3.340	3.033	2.710	3.116	9.43
33) Dibromomethane	0.513	0.573	0.601	0.555	0.556	0.455	0.542	9.45
34) 1,2-Dichloropropane	0.801	0.881	0.905	0.894	0.754	0.734	0.828	9.06
35) m Trichloroethene*	1.010	1.112	1.185	1.187	1.029	0.916	1.073	10.02
36) Bromodichloromethan	1.416	1.585	1.724	1.686	1.406	1.260	1.513	11.98
37) 2-Chloroethyl-vinyl	0.214	0.246	0.223	0.228	0.238	0.220	0.228	5.20
38) cis-1,3-Dichloropro	1.215	1.396	1.452	1.403	1.190	1.124	1.296	10.53
39) 4-Methyl-2-Pentanon	0.506	0.627	0.656	0.597	0.602	0.587	0.596	8.45
40) trans-1,3-Dichlorop	1.042	1.220	1.354	1.318	1.005	0.964	1.150	14.65
41) 1,1,2-Trichloroetha	0.438	0.505	0.520	0.491	0.422	0.421	0.466	9.52
42) s Toluene-d8 (SURR)	0.992	1.024	0.966	0.964	0.984	1.032	0.994	2.90
43) m Toluene*	3.441	3.726	4.073	3.982	3.527	3.246	3.666	8.75
44) Ethyl Methacrylate	0.086	0.108	0.117	0.115	0.105	0.106	0.106	10.30
45) 1,3-Dichloropropane	0.873	1.035	1.080	1.026	0.922	0.797	0.956	11.44
46) 2-Hexanone	0.355	0.452	0.477	0.420	0.405	0.413	0.420	10.01
-----ISTD-----								
47) Chlorobenzene-d5 (IS)								
48) Dibromochloromethan	1.051	1.228	1.257	1.140	1.015	0.983	1.112	10.27
49) 1,2-Dibromoethane (	0.792	0.938	0.990	0.847	0.828	0.776	0.862	9.81
50) Tetrachloroethene	1.063	1.171	1.229	1.207	1.135	1.008	1.135	7.55
51) m 1,1,1,2-Tetrachloro	1.021	1.177	1.230	1.196	1.150	1.064	1.140	7.09
52) m Chlorobenzene*	3.141	3.626	3.777	3.766	3.329	3.085	3.454	8.98
53) m Ethyl Benzene*	6.829	7.857	8.439	6.358	7.378	6.567	7.238	11.12
54) m,p-Xylene	5.459	6.339	6.205	5.423	6.877	6.296	6.100	9.21
55) m o-Xylene*	2.079	2.303	2.384	2.286	1.936	1.800	2.131	10.86
56) Bromoform	0.446	0.540	0.494	0.524	0.455	0.421	0.480	9.76
57) Styrene	2.975	3.396	3.829	3.570	2.996	2.743	3.252	12.73
58) 1,1,2,2-Tetrachloro	0.547	0.601	0.663	0.562	0.606	0.556	0.589	7.38
59) trans-1,4-Dichloro-	0.313	0.386	0.399	0.341	0.322	0.275	0.339	13.80

Response Factor Report VOC 1

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration

Calibration Files  
 20 =0401004.D 50 =0501005.D 100 =0601006.D  
 200 =0701007.D 5 =0201002.D 10 =0301003.D

Compound	20	50	100	200	5	10	Avg	%RSD
60) 1,2,3-Trichloroprop	1.195	1.201	1.098	1.015	1.075	1.180	1.127	6.78
61) Isopropylbenzene	6.597	7.863	8.292	6.116	6.544	5.956	6.894	13.90
62) s 4-Bromofluorobenzen	0.624	0.612	0.564	0.527	0.615	0.594	0.589	6.32
63) Bromobenzene	0.956	1.075	1.179	1.137	1.082	0.885	1.052	10.56
64) m N-Propylbenzene*	0.864	0.990	1.039	0.879	0.908	0.785	0.911	E1 10.03
65) 2-Chlorotoluene	5.476	6.434	6.830	5.806	5.595	5.337	5.913	10.00
66) 4-Chlorotoluene	1.094	1.236	1.335	1.269	1.105	1.072	1.185	9.21
-----ISTD-----								
67) 1,4-Dichlorobenzene (								
68) 1,3,5-Trimethylbenz	1.470	1.647	1.702	1.440	1.471	1.468	1.533	E1 7.27
69) tert-butylbenzene	1.264	1.450	1.520	1.466	1.284	1.276	1.377	E1 8.31
70) 1,2,4-Trimethylbenz	1.438	1.584	1.625	1.411	1.445	1.442	1.491	E1 6.04
71) sec-Butylbenzene	1.961	2.239	2.308	1.822	1.993	1.930	2.042	E1 9.28
72) 1,3-Dichlorobenzene	4.828	5.449	5.601	5.702	5.002	4.895	5.246	7.29
73) 1,4-Dichlorobenzene	3.023	3.382	3.446	3.517	3.154	3.273	3.299	5.65
74) p-Isopropyltoluene	1.469	1.645	1.734	1.403	1.477	1.460	1.531	E1 8.38
75) 1,2-Dichlorobenzene	4.192	4.641	4.776	4.804	4.112	4.220	4.457	7.10
76) N-Butylbenzene	1.786	2.031	2.030	1.523	1.676	1.673	1.786	E1 11.58
77) 1,2-Dibromo-3-chlor	0.217	0.220	0.220	0.196	0.189	0.198	0.207	6.76
78) 1,2,4-Trichlorobenz	2.627	3.213	3.316	3.284	2.903	2.732	3.012	9.91
79) Naphthalene	4.149	5.123	5.403	4.927	4.004	4.068	4.613	13.25
80) Hexachloro-1,3-buta	1.653	1.819	1.800	1.849	1.710	1.574	1.734	6.19
81) 1,2,3-Trichlorobenz	2.213	2.601	2.661	2.536	2.286	2.106	2.401	9.53
82) 1-Methylnaphthalene	1.647	2.118	2.136	1.967	2.056	2.019	1.990	9.01
83) 2-Methylnaphthalene	1.780	2.534	2.649	2.561	2.182	2.330	2.339	13.79

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0101001.D  
 Acq On : 20 Feb 2020 10:54 am  
 Sample : 1ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 15:29 2020

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	742029	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	441144	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	166344	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.15	113	247708	47.78	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	95.56%		
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	338117	50.35	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	100.70%		
42) Toluene-d8 (SURR)	4.55	98	731998	49.63	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	99.26%		
62) 4-Bromofluorobenzene (SURR)	6.59	95	275596	53.02	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery =	106.04%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	21714	1.03	ppb	97
3) Chloromethane	1.40	50	21870	1.67	ppb	# 92
4) Vinyl Chloride*	1.44	62	19445	1.15	ppb	# 62
5) Bromomethane	1.62	94	35215	2.18	ppb	# 65
6) Chloroethane	1.68	64	14923	1.36	ppb	84
7) Acrolein	2.39	56	13695	1.17	ppb	# 45
8) Trichlorofluoromethane	1.75	101	49022	1.15	ppb	# 94
9) Acetone	2.30	43	116487	31.60	ppb	97
10) 1,1-Dichloroethene*	2.00	61	37552	1.17	ppb	88
11) Acrylonitrile	2.65	53	43922	1.28	ppb	96
12) Iodomethane	2.08	142	17008m	1.01	ppb	
13) Methylene Chloride	2.28	84	46386	2.93	ppb	94
14) Carbon Disulfide	2.04	76	29460	1.36	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	18126	1.37	ppb	89
16) Methyl-tert-butyl ether* (	2.41	73	41249	1.34	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	50758	1.32	ppb	95
18) Vinyl Acetate	2.76	43	49461	2.05	ppb	# 89
19) N-Hexane	2.39	57	29828	1.32	ppb	94
20) N-Butanol	2.76	57	15069	1.23	ppb	# 66
21) 2-Butanone (MEK)	3.23	43	18369	4.92	ppb	# 80
22) cis-1,2-Dichloroethene*	2.93	61	29224	1.14	ppb	89
23) Bromochloromethane	3.03	128	5186	1.18	ppb	97
24) Chloroform*	3.06	83	44370	1.34	ppb	99
25) 2-2-Dichloropropane	2.98	77	36899	1.13	ppb	93
28) 1,2-Dichloroethane	3.49	62	31606	1.28	ppb	99
29) 1,1,1-Trichloroethane*	3.18	97	39305	1.19	ppb	99
30) 1,1-Dichloropropene	3.24	75	24050	1.06	ppb	94
31) Carbon Tetrachloride	3.15	117	31650	1.13	ppb	97
32) Benzene*	3.38	78	54691	1.18	ppb	91
33) Dibromomethane	3.96	93	10210	1.27	ppb	97
34) 1,2-Dichloropropane	4.01	63	15645	1.27	ppb	85
35) Trichloroethene*	3.69	95	20426	1.28	ppb	95
36) Bromodichloromethane	4.04	83	29154	1.30	ppb	# 99
37) 2-Chloroethyl-vinyl ether	4.37	63	13013	3.84	ppb	96
38) cis-1,3-Dichloropropene	4.43	75	19573m	1.02	ppb	
39) 4-Methyl-2-Pentanone (MIBK	4.82	43	23642	2.67	ppb	# 94
40) trans-1,3-Dichloropene	4.85	75	18767m	1.10	ppb	
41) 1,1,2-Trichloroethane	4.97	83	8382	1.21	ppb	90
43) Toluene*	4.59	91	91587	1.68	ppb	98
44) Ethyl Methacrylate	4.93	69	1758	1.11	ppb	# 37
45) 1,3-Dichloropropane	5.17	76	16967	1.20	ppb	# 92
46) 2-Hexanone	5.41	43	14454	2.32	ppb	# 51
48) Dibromochloromethane	5.10	129	12411	1.26	ppb	97
49) 1,2-Dibromoethane (EDB)	5.28	107	8359	1.10	ppb	# 96

(#) = qualifier out of range (m) = manual integration  
 0101001.D 022020RC.M Tue Feb 25 15:30:08 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0101001.D  
 Acq On : 20 Feb 2020 10:54 am  
 Sample : 1ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 25 15:29 2020

Vial: 1  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.84	166	16421	1.64	ppb	89
51) 1,1,1,2-Tetrachloroethane*	5.69	131	13022	1.29	ppb	93
52) Chlorobenzene*	5.66	112	36688	1.20	ppb #	75
53) Ethyl Benzene*	5.66	91	90722	1.42	ppb #	84
54) m,p-Xylene	5.77	91	172752	3.21	ppb	99
55) o-Xylene*	6.11	106	23995	1.28	ppb	97
56) Bromoform	6.18	173	5679	1.34	ppb #	81
57) Styrene	6.14	104	30456	1.06	ppb	89
58) 1,1,2,2-Tetrachloroethane	6.75	85	7039	1.35	ppb #	95
59) trans-1,4-Dichloro-2-buten	6.89	53	3311	1.11	ppb	91
60) 1,2,3-Trichloropropane	6.87	75	13323	1.34	ppb #	74
61) Isopropylbenzene	6.35	105	63005	1.04	ppb	95
63) Bromobenzene	6.68	156	10284	1.11	ppb	86
64) N-Propylbenzene*	6.69	91	94820	1.18	ppb	98
65) 2-Chlorotoluene	6.83	91	58020	1.11	ppb	96
66) 4-Chlorotoluene	6.97	126	10566m	1.01	ppb	
68) 1,3,5-Trimethylbenzene	6.84	105	54742	1.07	ppb	94
69) tert-butylbenzene	7.12	119	47032	1.03	ppb	96
70) 1,2,4-Trimethylbenzene	7.17	105	64440	1.30	ppb	98
71) sec-Butylbenzene	7.27	105	77888	1.15	ppb	96
72) 1,3-Dichlorobenzene	7.47	146	21854	1.25	ppb	99
73) 1,4-Dichlorobenzene	7.55	148	17503	1.59	ppb	85
74) p-Isopropyltoluene	7.39	119	62899	1.23	ppb	98
75) 1,2-Dichlorobenzene	7.93	146	18155	1.22	ppb	95
76) N-Butylbenzene	7.76	91	63928	1.08	ppb	98
77) 1,2-Dibromo-3-chloropropan	8.65	155	708	1.03	ppb #	62
78) 1,2,4-Trichlorobenzene	9.28	180	12389	1.24	ppb	97
79) Naphthalene	9.59	128	23888	1.56	ppb	97
80) Hexachloro-1,3-butadiene	9.24	225	6591	1.14	ppb	94
81) 1,2,3-Trichlorobenzene	9.77	180	10904	1.37	ppb	91
82) 1-Methylnaphthalene	10.59	142	11528	1.74	ppb	100
83) 2-Methylnaphthalene	10.59	142	11528	1.48	ppb	96



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0201002.D  
 Acq On : 20 Feb 2020 11:10 am  
 Sample : 5ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:54 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:53:49 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	706224	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	432193	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.53	152	165331	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	246147	47.68	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	95.36%		
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	316995	44.69	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	89.38%		
42) Toluene-d8 (SURR)	4.55	98	694924	51.13	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	102.26%		
62) 4-Bromofluorobenzene (SURR)	6.59	95	265684	47.70	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery =	95.40%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	84555	3.23	ppb	95
3) Chloromethane	1.40	50	60883	3.77	ppb	99
4) Vinyl Chloride*	1.44	62	80517	4.37	ppb	99
5) Bromomethane	1.62	94	88750	4.08	ppb	94
6) Chloroethane	1.68	64	54114	4.24	ppb	90
7) Acrolein	2.38	56	54714	3.59	ppb	# 72
8) Trichlorofluoromethane	1.75	101	189118	3.46	ppb	99
9) Acetone	2.31	43	84019	20.44	ppb	# 92
10) 1,1-Dichloroethene*	2.01	61	140807	3.30	ppb	96
11) Acrylonitrile	2.65	53	149602	3.15	ppb	96
12) Iodomethane	2.09	142	59823	3.20	ppb	99
13) Methylene Chloride	2.28	84	89304	4.95	ppb	97
14) Carbon Disulfide	2.04	76	101147	3.59	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	61598	3.71	ppb	99
16) Methyl-tert-butyl ether* (	2.40	73	140344	3.63	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	182517	3.69	ppb	97
18) Vinyl Acetate	2.76	43	126534	4.39	ppb	98
19) N-Hexane	2.38	57	99536	3.38	ppb	94
20) N-Butanol	2.75	57	59600	3.91	ppb	95
21) 2-Butanone (MEK)	3.23	43	47544	10.79	ppb	# 96
22) cis-1,2-Dichloroethene*	2.93	61	118307	3.90	ppb	99
23) Bromochloromethane	3.04	128	19039	4.06	ppb	83
24) Chloroform*	3.06	83	151133	3.76	ppb	99
25) 2-2-Dichloropropane	2.99	77	147249	3.58	ppb	99
28) 1,2-Dichloroethane	3.49	62	116909	3.64	ppb	97
29) 1,1,1-Trichloroethane*	3.18	97	145642	3.49	ppb	99
30) 1,1-Dichloropropene	3.24	75	94459	3.49	ppb	97
31) Carbon Tetrachloride	3.15	117	116180	3.06	ppb	97
32) Benzene*	3.38	78	214165	4.30	ppb	98
33) Dibromomethane	3.95	93	39240	4.10	ppb	93
34) 1,2-Dichloropropane	4.01	63	53283	3.93	ppb	93
35) Trichloroethene*	3.69	95	72645	3.96	ppb	96
36) Bromodichloromethane	4.04	83	99305	3.59	ppb	100
37) 2-Chloroethyl-vinyl ether	4.37	63	57308	16.64	ppb	98
38) cis-1,3-Dichloropropene	4.43	75	84015	3.89	ppb	97
39) 4-Methyl-2-Pentanone (MIBK	4.82	43	86283	8.87	ppb	# 95
40) trans-1,3-Dichloropene	4.85	75	70995	3.50	ppb	84
41) 1,1,2-Trichloroethane	4.97	83	29806	3.86	ppb	91
43) Toluene*	4.58	91	249075	4.25	ppb	99
44) Ethyl Methacrylate	4.94	69	5431	2.97	ppb	# 82
45) 1,3-Dichloropropane	5.17	76	65079	4.03	ppb	93
46) 2-Hexanone	5.41	43	61535	9.21	ppb	# 94
48) Dibromochloromethane	5.10	129	43851	4.14	ppb	99
49) 1,2-Dibromoethane (EDB)	5.28	107	35771	4.47	ppb	# 99

(#) = qualifier out of range (m) = manual integration  
 0201002.D 022020RC.M Tue Feb 25 15:30:14 2020

GARY



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0201002.D  
 Acq On : 20 Feb 2020 11:10 am  
 Sample : 5ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:54 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:53:49 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	49035	5.08	ppb	94
51) 1,1,1,2-Tetrachloroethane*	5.70	131	49711	4.87	ppb	93
52) Chlorobenzene*	5.66	112	143869	4.80	ppb	93
53) Ethyl Benzene*	5.66	91	318859	4.92	ppb	94
54) m,p-Xylene	5.77	91	494480	9.54	ppb	97
55) o-Xylene*	6.10	106	83671	4.53	ppb	96
56) Bromoform	6.18	173	19662	4.22	ppb #	92
57) Styrene	6.15	104	129468	4.68	ppb #	85
58) 1,1,2,2-Tetrachloroethane	6.74	85	26181	4.71	ppb	96
59) trans-1,4-Dichloro-2-buten	6.89	53	13902	3.85	ppb	96
60) 1,2,3-Trichloropropane	6.87	75	46441	4.07	ppb #	97
61) Isopropylbenzene	6.35	105	282824	4.72	ppb	98
63) Bromobenzene	6.68	156	46757	5.31	ppb	92
64) N-Propylbenzene*	6.68	91	392569	4.63	ppb	99
65) 2-Chlorotoluene	6.83	91	241814	4.32	ppb	97
66) 4-Chlorotoluene	6.97	126	47768	4.62	ppb	96
68) 1,3,5-Trimethylbenzene	6.85	105	243185	4.81	ppb	98
69) tert-butylbenzene	7.12	119	212279	4.70	ppb	98
70) 1,2,4-Trimethylbenzene	7.18	105	238869	4.85	ppb	96
71) sec-Butylbenzene	7.27	105	329463	4.96	ppb	100
72) 1,3-Dichlorobenzene	7.48	146	82701	5.01	ppb	91
73) 1,4-Dichlorobenzene	7.55	148	52152	5.01	ppb	93
74) p-Isopropyltoluene	7.39	119	244140	4.92	ppb	98
75) 1,2-Dichlorobenzene	7.92	146	67981	4.82	ppb	95
76) N-Butylbenzene	7.76	91	277108	4.43	ppb	98
77) 1,2-Dibromo-3-chloropropan	8.64	155	3119	4.51	ppb	90
78) 1,2,4-Trichlorobenzene	9.28	180	47990	4.80	ppb	96
79) Naphthalene	9.59	128	66199	4.47	ppb	99
80) Hexachloro-1,3-butadiene	9.24	225	28265	4.71	ppb	97
81) 1,2,3-Trichlorobenzene	9.76	180	37797	4.67	ppb	97
82) 1-Methylnaphthalene	10.75	142	23990	4.25	ppb	94
83) 2-Methylnaphthalene	10.60	142	26067	3.58	ppb	97

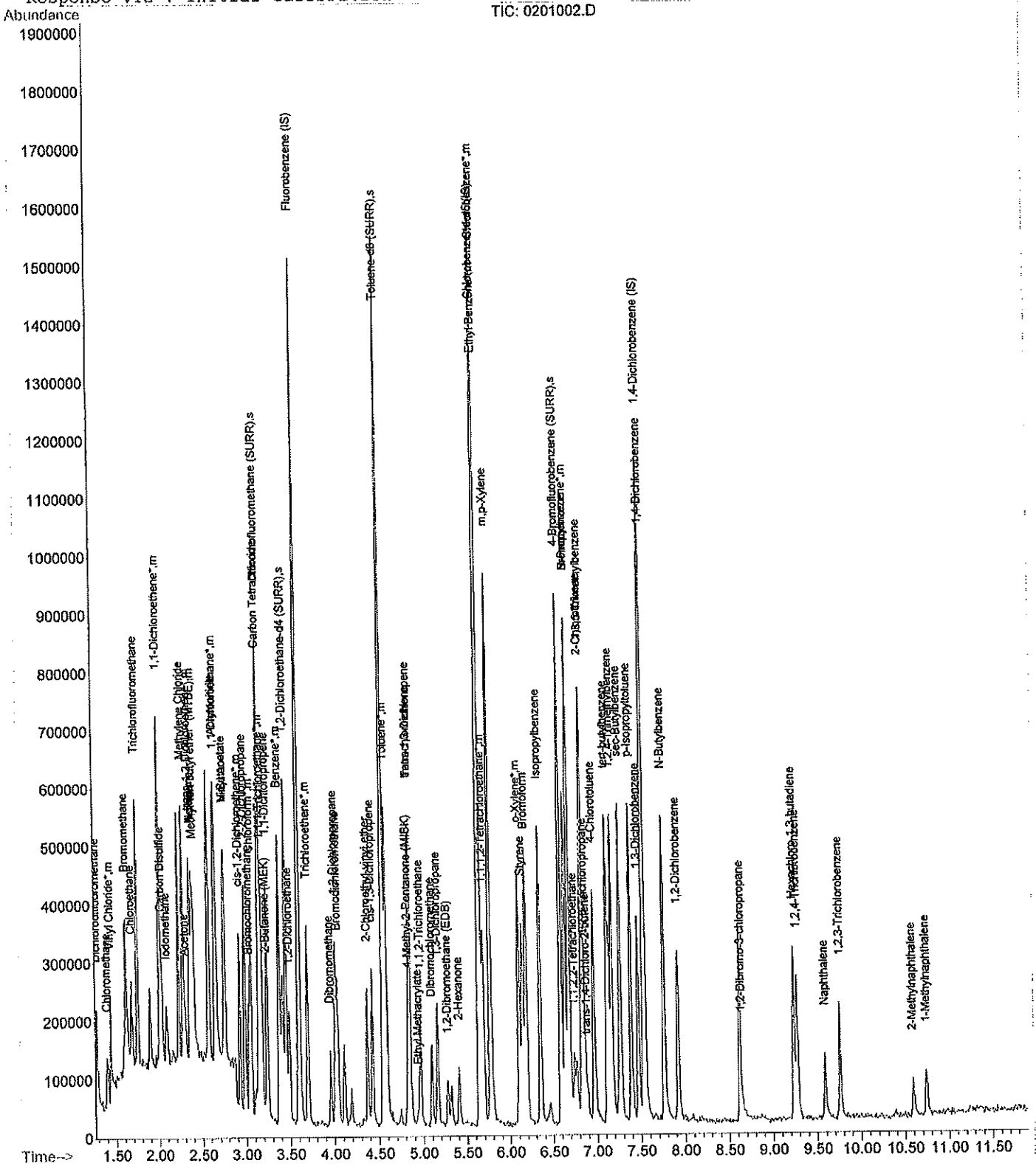
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0201002.D  
Acq On : 20 Feb 2020 11:10 am  
Sample : 5ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 12:54 2020

Vial: 2  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0301003.D  
 Acq On : 20 Feb 2020 11:27 am  
 Sample : 10ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:55 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:54:44 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	688729	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	422759	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	156003	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	234233	47.44	ppb	0.00
Spiked Amount 50.000	Range 54 - 140		Recovery =	94.88%		
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	299326	44.60	ppb	0.00
Spiked Amount 50.000	Range 54 - 138		Recovery =	89.20%		
42) Toluene-d8 (SURR)	4.55	98	710678	53.65	ppb	0.00
Spiked Amount 50.000	Range 61 - 127		Recovery =	107.30%		
62) 4-Bromofluorobenzene (SURR)	6.59	95	250908	47.05	ppb	0.00
Spiked Amount 50.000	Range 69 - 131		Recovery =	94.10%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	172342m	7.14	ppb	
3) Chloromethane	1.40	50	97773	6.54	ppb	95
4) Vinyl Chloride*	1.44	62	135021	7.62	ppb	92
5) Bromomethane	1.62	94	135284	6.73	ppb	96
6) Chloroethane	1.68	64	86979	6.94	ppb	92
7) Acrolein	2.38	56	94211	6.76	ppb	95
8) Trichlorofluoromethane	1.76	101	339849	6.88	ppb	99
9) Acetone	2.31	43	105023	23.87	ppb	98
10) 1,1-Dichloroethene*	2.01	61	262383	6.80	ppb	98
11) Acrylonitrile	2.65	53	273983	6.39	ppb	98
12) Iodomethane	2.09	142	116642	6.76	ppb	97
13) Methylene Chloride	2.28	84	146355	8.46	ppb	98
14) Carbon Disulfide	2.04	76	165014	6.37	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	103324	6.73	ppb	97
16) Methyl-tert-butyl ether* (	2.41	73	257273	7.29	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	316376	7.05	ppb	97
18) Vinyl Acetate	2.76	43	215970	7.93	ppb	99
19) N-Hexane	2.38	57	187672	7.02	ppb	99
20) N-Butanol	2.76	57	103852	7.40	ppb	98
21) 2-Butanone (MEK)	3.23	43	72366	17.65	ppb	# 99
22) cis-1,2-Dichloroethene*	2.93	61	199264	7.01	ppb	97
23) Bromochloromethane	3.04	128	35221	7.92	ppb	94
24) Chloroform*	3.06	83	268656	7.30	ppb	99
25) 2-2-Dichloropropane	2.99	77	271858	7.17	ppb	99
28) 1,2-Dichloroethane	3.49	62	199081	6.89	ppb	95
29) 1,1,1-Trichloroethane*	3.18	97	261068	6.82	ppb	98
30) 1,1-Dichloropropene	3.25	75	180124	7.15	ppb	98
31) Carbon Tetrachloride	3.15	117	211264	6.16	ppb	97
32) Benzene*	3.38	78	373289	7.87	ppb	99
33) Dibromomethane	3.96	93	62690	7.06	ppb	96
34) 1,2-Dichloropropane	4.01	63	101057	7.94	ppb	98
35) Trichloroethene*	3.70	95	126135	7.38	ppb	98
36) Bromodichloromethane	4.04	83	173619	6.82	ppb	94
37) 2-Chloroethyl-vinyl ether	4.38	63	101403	31.34	ppb	98
38) cis-1,3-Dichloropropene	4.43	75	154789	7.59	ppb	100
39) 4-Methyl-2-Pentanone (MIBK	4.82	43	152175	16.79	ppb	# 95
40) trans-1,3-Dichloropene	4.85	75	132769	7.08	ppb	99
41) 1,1,2-Trichloroethane	4.97	83	57983	8.13	ppb	97
43) Toluene*	4.58	91	447162	8.09	ppb	100
44) Ethyl Methacrylate	4.95	69	8658	5.29	ppb	# 69
45) 1,3-Dichloropropane	5.17	76	109811	7.30	ppb	99
46) 2-Hexanone	5.41	43	102072	16.25	ppb	97
48) Dibromochloromethane	5.10	129	83086	8.38	ppb	98
49) 1,2-Dibromoethane (EDB)	5.28	107	65640	8.70	ppb	94

(#) = qualifier out of range (m) = manual integration  
 0301003.D 022020RC.M Tue Feb 25 15:30:18 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0301003.D  
 Acq On : 20 Feb 2020 11:27 am  
 Sample : 10ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:55 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:54:44 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	85191	9.09	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.69	131	89976	9.11	ppb	99
52) Chlorobenzene*	5.66	112	260850	9.09	ppb	96
53) Ethyl Benzene*	5.66	91	555213	9.02	ppb	95
54) m,p-Xylene	5.77	91	864688	17.62	ppb	97
55) o-Xylene*	6.11	106	152179	8.58	ppb	97
56) Bromoform	6.18	173	35622	8.27	ppb	99
57) Styrene	6.15	104	231899	8.69	ppb	92
58) 1,1,2,2-Tetrachloroethane	6.75	85	47018	9.00	ppb	93
59) trans-1,4-Dichloro-2-buten	6.90	53	23235	6.99	ppb	92
60) 1,2,3-Trichloropropane	6.87	75	99808	8.99	ppb	# 94
61) Isopropylbenzene	6.35	105	503561	8.79	ppb	99
63) Bromobenzene	6.68	156	74867	8.54	ppb	97
64) N-Propylbenzene*	6.69	91	663618	8.18	ppb	99
65) 2-Chlorotoluene	6.83	91	451233	8.51	ppb	98
66) 4-Chlorotoluene	6.97	126	90678	9.19	ppb	94
68) 1,3,5-Trimethylbenzene	6.84	105	458027	9.81	ppb	99
69) tert-butylbenzene	7.12	119	398086	9.61	ppb	99
70) 1,2,4-Trimethylbenzene	7.18	105	449857	9.96	ppb	98
71) sec-Butylbenzene	7.27	105	602296	9.83	ppb	99
72) 1,3-Dichlorobenzene	7.48	146	152742	10.02	ppb	99
73) 1,4-Dichlorobenzene	7.55	148	102122	10.55	ppb	96
74) p-Isopropyltoluene	7.39	119	455548	9.91	ppb	99
75) 1,2-Dichlorobenzene	7.93	146	131676	10.19	ppb	99
76) N-Butylbenzene	7.76	91	521927	9.18	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.65	155	6185	10.06	ppb	91
78) 1,2,4-Trichlorobenzene	9.28	180	85249	9.38	ppb	97
79) Naphthalene	9.59	128	126916	9.28	ppb	97
80) Hexachloro-1,3-butadiene	9.24	225	49105	8.98	ppb	98
81) 1,2,3-Trichlorobenzene	9.76	180	65699	8.90	ppb	98
82) 1-Methylnaphthalene	10.75	142	42984	8.19	ppb	97
83) 2-Methylnaphthalene	10.60	142	42685	6.59	ppb	97

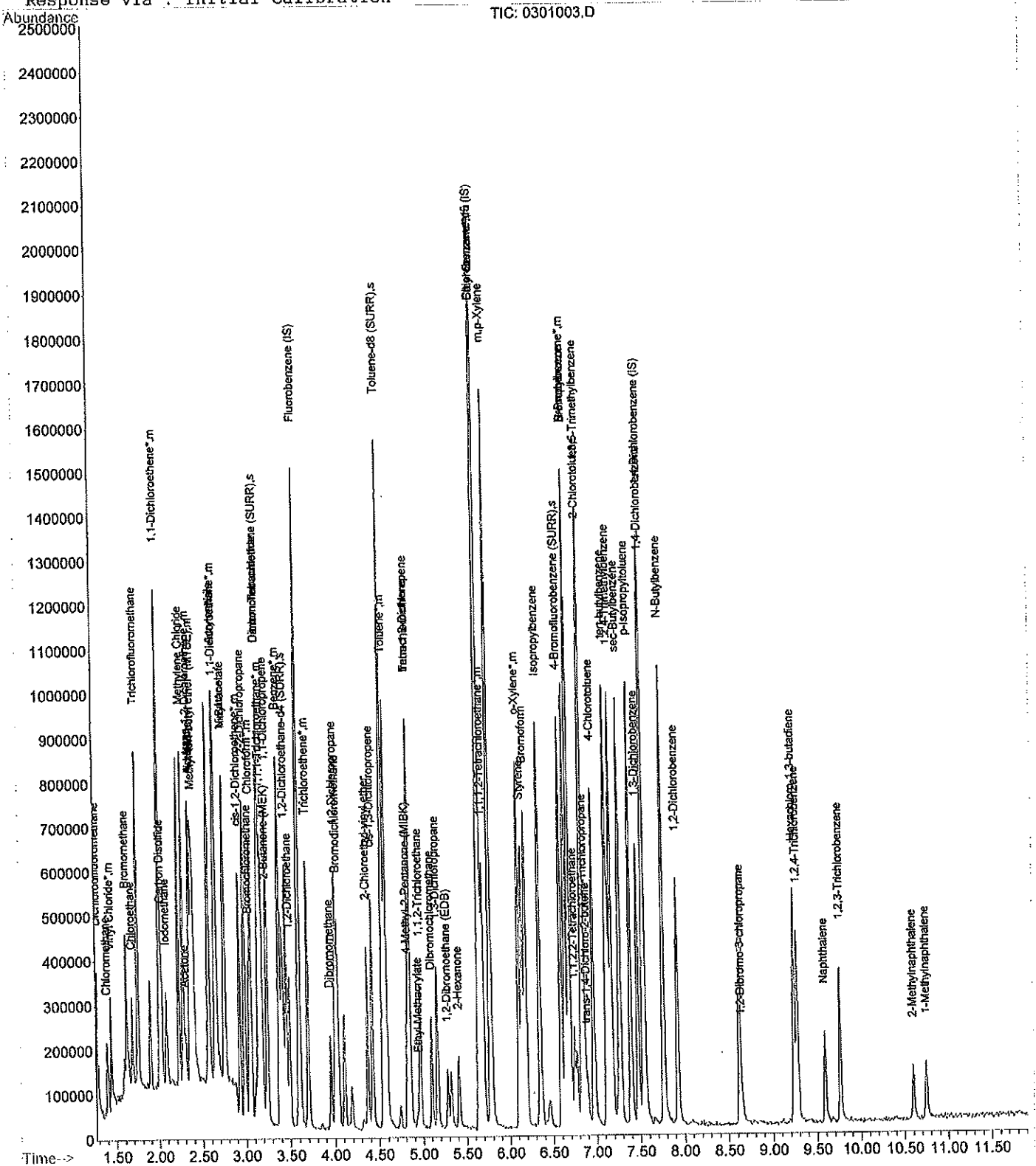
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0301003.D  
Acq On : 20 Feb 2020 11:27 am  
Sample : 10ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 12:55 2020

Vial: 3  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0401004.D  
 Acq On : 20 Feb 2020 11:44 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOCl curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:55 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:55:23 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.60	96	751960	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	480797	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	187237	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	269394	50.73	ppb	0.00
Spiked Amount 50.000	Range 54 - 140		Recovery =	101.46%		
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65	360439	51.14	ppb	0.00
Spiked Amount 50.000	Range 54 - 138		Recovery =	102.28%		
42) Toluene-d8 (SURR)	4.55	98	786232	53.16	ppb	0.00
Spiked Amount 50.000	Range 61 - 127		Recovery =	106.32%		
62) 4-Bromofluorobenzene (SURR)	6.59	95	299955	51.18	ppb	0.00
Spiked Amount 50.000	Range 69 - 131		Recovery =	102.36%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	440158m	17.31	ppb	
3) Chloromethane	1.39	50	260539	17.21	ppb	97
4) Vinyl Chloride*	1.44	62	327839	17.55	ppb	97
5) Bromomethane	1.62	94	315021	15.52	ppb	94
6) Chloroethane	1.68	64	213522	16.61	ppb	96
7) Acrolein	2.39	56	227782	16.02	ppb	100
8) Trichlorofluoromethane	1.75	101	848051	16.89	ppb	100
9) Acetone	2.31	43	187669	38.15	ppb	96
10) 1,1-Dichloroethene*	2.01	61	630944	16.11	ppb	98
11) Acrylonitrile	2.65	53	675126	15.58	ppb	99
12) Iodomethane	2.09	142	291357	16.31	ppb	99
13) Methylene Chloride	2.29	84	304753	16.55	ppb	98
14) Carbon Disulfide	2.04	76	404095	15.28	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	253409	16.16	ppb	96
16) Methyl-tert-butyl ether* (	2.41	73	576302	15.87	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	737001	16.03	ppb	99
18) Vinyl Acetate	2.77	43	460205	16.15	ppb	# 96
19) N-Hexane	2.39	57	437426	15.78	ppb	98
20) N-Butanol	2.76	57	227060	15.82	ppb	# 97
21) 2-Butanone (MEK)	3.23	43	181940	43.33	ppb	# 99
22) cis-1,2-Dichloroethene*	2.93	61	475263	16.35	ppb	99
23) Bromochloromethane	3.04	128	85091	18.16	ppb	98
24) Chloroform*	3.06	83	638817	16.79	ppb	99
25) 2-2-Dichloropropane	2.99	77	623701	16.00	ppb	99
28) 1,2-Dichloroethane	3.49	62	462607	15.71	ppb	98
29) 1,1,1-Trichloroethane*	3.19	97	638355	16.12	ppb	99
30) 1,1-Dichloropropene	3.24	75	446566	16.95	ppb	99
31) Carbon Tetrachloride	3.15	117	563962	16.23	ppb	98
32) Benzene*	3.38	78	864561	17.10	ppb	98
33) Dibromomethane	3.96	93	154287	16.80	ppb	97
34) 1,2-Dichloropropane	4.01	63	240912	17.81	ppb	99
35) Trichloroethene*	3.70	95	303721	16.92	ppb	98
36) Bromodichloromethane	4.04	83	425974	16.32	ppb	98
37) 2-Chloroethyl-vinyl ether	4.37	63	256912	76.68	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	365446	17.09	ppb	97
39) 4-Methyl-2-Pentanone (MIBK	4.83	43	380735	40.99	ppb	99
40) trans-1,3-Dichloropene	4.85	75	313410	16.15	ppb	96
41) 1,1,2-Trichloroethane	4.97	83	131690	17.49	ppb	96
43) Toluene*	4.58	91	1035013	17.62	ppb	99
44) Ethyl Methacrylate	4.94	69	25917	16.01	ppb	# 91
45) 1,3-Dichloropropane	5.16	76	262681	16.64	ppb	99
46) 2-Hexanone	5.41	43	266770	41.17	ppb	98
48) Dibromochloromethane	5.10	129	202089	18.79	ppb	98
49) 1,2-Dibromoethane (EDB)	5.28	107	152404	18.44	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0401004.D 022020RC.M Tue Feb 25 15:30:24 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0401004.D  
 Acq On : 20 Feb 2020 11:44 am  
 Sample : 20ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:55 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:55:23 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	204394	19.55	ppb	99
51) 1,1,1,2-Tetrachloroethane*	5.70	131	196429	18.00	ppb	95
52) Chlorobenzene*	5.66	112	603997	18.75	ppb	96
53) Ethyl Benzene*	5.67	91	1313333	19.33	ppb	97
54) m,p-Xylene	5.77	91	2099888	39.16	ppb	99
55) o-Xylene*	6.11	106	399848	20.41	ppb	95
56) Bromoform	6.18	173	85833	18.30	ppb	94
57) Styrene	6.15	104	572208	19.34	ppb	98
58) 1,1,2,2-Tetrachloroethane	6.75	85	105140	18.51	ppb	97
59) trans-1,4-Dichloro-2-buten	6.90	53	60161	17.33	ppb	91
60) 1,2,3-Trichloropropane	6.87	75	229833	19.09	ppb #	97
61) Isopropylbenzene	6.35	105	1268734	20.06	ppb	98
63) Bromobenzene	6.69	156	183815	18.99	ppb	97
64) N-Propylbenzene*	6.69	91	1661258	18.83	ppb	99
65) 2-Chlorotoluene	6.83	91	1053214	18.18	ppb	99
66) 4-Chlorotoluene	6.97	126	210387	19.07	ppb	93
68) 1,3,5-Trimethylbenzene	6.85	105	1101122	19.67	ppb	99
69) tert-butylbenzene	7.12	119	946643	18.97	ppb	99
70) 1,2,4-Trimethylbenzene	7.18	105	1076755	19.77	ppb	99
71) sec-Butylbenzene	7.27	105	1468366	20.04	ppb	100
72) 1,3-Dichlorobenzene	7.48	146	361613	19.58	ppb	98
73) 1,4-Dichlorobenzene	7.55	148	226403	19.55	ppb	98
74) p-Isopropyltoluene	7.39	119	1100555	19.84	ppb	98
75) 1,2-Dichlorobenzene	7.93	146	313944	19.96	ppb	98
76) N-Butylbenzene	7.76	91	1337308	20.26	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.65	155	16249	22.11	ppb	85
78) 1,2,4-Trichlorobenzene	9.28	180	196721	18.08	ppb	98
79) Naphthalene	9.59	128	310737	18.99	ppb	100
80) Hexachloro-1,3-butadiene	9.24	225	123826	19.24	ppb	97
81) 1,2,3-Trichlorobenzene	9.76	180	165764	19.20	ppb	98
82) 1-Methylnaphthalene	10.75	142	123383	19.49	ppb	97
83) 2-Methylnaphthalene	10.60	142	133339	18.30	ppb	97





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0501005.D  
 Acq On : 20 Feb 2020 12:01 pm  
 Sample : 50ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:57 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:56:46 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	Q	Ion	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96		741772	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117		484982	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152		191131	50.00	ppb	0.00

System Monitoring Compounds	R.T.	Q	Ion	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113		273077	51.11	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	102.22%	
27) 1,2-Dichloroethane-d4 (SUR)	3.45	65		354490	51.81	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	103.62%	
42) Toluene-d8 (SURR)	4.55	98		759838	49.48	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	98.96%	
62) 4-Bromofluorobenzene (SURR)	6.59	95		296791	50.37	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	100.74%	

Target Compounds	R.T.	Q	Ion	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85		1130328m	53.53	ppb	
3) Chloromethane	1.39	50		655947	50.19	ppb	100
4) Vinyl Chloride*	1.44	62		896506	53.03	ppb	100
5) Bromomethane	1.61	94		841563	52.16	ppb	100
6) Chloroethane	1.68	64		585302	53.24	ppb	100
7) Acrolein	2.38	56		635908	54.34	ppb	100
8) Trichlorofluoromethane	1.75	101		2291881	53.96	ppb	100
9) Acetone	2.31	43		497587	114.00	ppb	100
10) 1,1-Dichloroethene*	2.01	61		1739539	54.01	ppb	100
11) Acrylonitrile	2.65	53		1831947	53.60	ppb	100
12) Iodomethane	2.09	142		887884	56.22	ppb	100
13) Methylene Chloride	2.29	84		776594	49.12	ppb	100
14) Carbon Disulfide	2.03	76		1141686	52.77	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96		699328	53.00	ppb	100
16) Methyl-tert-butyl ether* (	2.41	73		1671662	54.30	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63		2039162	52.92	ppb	100
18) Vinyl Acetate	2.76	43		1231550	51.12	ppb	100
19) N-Hexane	2.38	57		1257634	55.70	ppb	100
20) N-Butanol	2.76	57		662579	54.13	ppb	100
21) 2-Butanone (MEK)	3.22	43		507138	135.94	ppb	# 100
22) cis-1,2-Dichloroethene*	2.93	61		1355478	53.09	ppb	100
23) Bromochloromethane	3.04	128		238038	54.05	ppb	100
24) Chloroform*	3.06	83		1743907	52.59	ppb	100
25) 2-2-Dichloropropane	2.99	77		1704010	52.15	ppb	100
28) 1,2-Dichloroethane	3.49	62		1300059	52.76	ppb	100
29) 1,1,1-Trichloroethane*	3.19	97		1759878	53.12	ppb	100
30) 1,1-Dichloropropene	3.24	75		1246741	54.78	ppb	100
31) Carbon Tetrachloride	3.15	117		1569418	54.45	ppb	100
32) Benzene*	3.38	78		2422164	52.39	ppb	100
33) Dibromomethane	3.95	93		424840	52.84	ppb	100
34) 1,2-Dichloropropane	4.01	63		653854	53.21	ppb	100
35) Trichloroethene*	3.70	95		825145	51.83	ppb	100
36) Bromodichloromethane	4.04	83		1175786	52.38	ppb	100
37) 2-Chloroethyl-vinyl ether	4.37	63		728499	216.37	ppb	100
38) cis-1,3-Dichloropropene	4.43	75		1035155	53.82	ppb	100
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43		1161985	141.70	ppb	100
40) trans-1,3-Dichloropropene	4.85	75		904698	53.01	ppb	100
41) 1,1,2-Trichloroethane	4.97	83		374665	54.17	ppb	100
43) Toluene*	4.58	91		2763890	50.82	ppb	100
44) Ethyl Methacrylate	4.94	69		80175	57.29	ppb	# 100
45) 1,3-Dichloropropane	5.17	76		767643	54.15	ppb	100
46) 2-Hexanone	5.41	43		838799	144.40	ppb	100
48) Dibromochloromethane	5.10	129		595477	55.20	ppb	100
49) 1,2-Dibromoethane (EDB)	5.28	107		454853	54.40	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0501005.D 022020RC.M Tue Feb 25 15:30:33 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020\0501005.D  
 Acq On : 20 Feb 2020 12:01 pm  
 Sample : 50ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:57 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:56:46 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	568027	51.58	ppb	100
51) 1,1,1,2-Tetrachloroethane*	5.70	131	570960	51.64	ppb	100
52) Chlorobenzene*	5.66	112	1758511	52.49	ppb	100
53) Ethyl Benzene*	5.66	91	3810338	54.28	ppb	100
54) m,p-Xylene	5.77	91	6148230	116.31	ppb	100
55) o-Xylene*	6.11	106	1116787	54.02	ppb	100
56) Bromoform	6.18	173	261931	54.41	ppb	100
57) Styrene	6.15	104	1647097	52.22	ppb	100
58) 1,1,2,2-Tetrachloroethane	6.75	85	291423	51.01	ppb	100
59) trans-1,4-Dichloro-2-buten	6.90	53	187305	56.91	ppb	100
60) 1,2,3-Trichloropropane	6.87	75	582641	48.57	ppb	# 100
61) Isopropylbenzene	6.35	105	3813176	57.02	ppb	100
63) Bromobenzene	6.69	156	521362	51.08	ppb	100
64) N-Propylbenzene*	6.69	91	4800276	56.64	ppb	100
65) 2-Chlorotoluene	6.83	91	3120230	54.40	ppb	100
66) 4-Chlorotoluene	6.97	126	599329	52.13	ppb	99
68) 1,3,5-Trimethylbenzene	6.85	105	3147872	53.71	ppb	100
69) tert-butylbenzene	7.12	119	2771808	52.67	ppb	100
70) 1,2,4-Trimethylbenzene	7.18	105	3027670	53.13	ppb	100
71) sec-Butylbenzene	7.27	105	4279473	55.86	ppb	100
72) 1,3-Dichlorobenzene	7.47	146	1041379	51.93	ppb	100
73) 1,4-Dichlorobenzene	7.55	148	646313	51.25	ppb	100
74) p-Isopropyltoluene	7.39	119	3143679	53.70	ppb	100
75) 1,2-Dichlorobenzene	7.92	146	886959	52.06	ppb	100
76) N-Butylbenzene	7.76	91	3881928	56.84	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.65	155	41987	53.17	ppb	100
78) 1,2,4-Trichlorobenzene	9.28	180	614100	53.33	ppb	100
79) Naphthalene	9.59	128	979254	55.54	ppb	100
80) Hexachloro-1,3-butadiene	9.24	225	347729	52.46	ppb	100
81) 1,2,3-Trichlorobenzene	9.76	180	497196	54.18	ppb	100
82) 1-Methylnaphthalene	10.74	142	404730	59.39	ppb	100
83) 2-Methylnaphthalene	10.59	142	484260	60.96	ppb	100



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0601006.D  
 Acq On : 20 Feb 2020 12:18 pm  
 Sample : 100ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:56 2020

Vial: 6  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:55:48 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	770344	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.65	117	515439	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	212942	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.17	113	290499	55.06	ppb	0.00
Spiked Amount	50.000	Range 54 - 140	Recovery =	110.12%		
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	366775	52.68	ppb	0.00
Spiked Amount	50.000	Range 54 - 138	Recovery =	105.36%		
42) Toluene-d8 (SURR)	4.55	98	794206	52.31	ppb	0.00
Spiked Amount	50.000	Range 61 - 127	Recovery =	104.62%		
62) 4-Bromofluorobenzene (SURR)	6.59	95	310705	50.33	ppb	0.00
Spiked Amount	50.000	Range 69 - 131	Recovery =	100.66%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	2407733m	96.39	ppb	
3) Chloromethane	1.41	50	1515133	102.22	ppb	# 93
4) Vinyl Chloride*	1.45	62	1863068	98.33	ppb	96
5) Bromomethane	1.62	94	1719413	88.56	ppb	100
6) Chloroethane	1.69	64	1253250	100.32	ppb	90
7) Acrolein	2.39	56	1332352	95.42	ppb	98
8) Trichlorofluoromethane	1.76	101	5034051	103.81	ppb	98
9) Acetone	2.32	43	979701	203.25	ppb	97
10) 1,1-Dichloroethene*	2.01	61	3722133	98.57	ppb	99
11) Acrylonitrile	2.65	53	3954513	94.79	ppb	99
12) Iodomethane	2.10	142	1943454	108.00	ppb	99
13) Methylene Chloride	2.29	84	1604285	89.28	ppb	97
14) Carbon Disulfide	2.04	76	2501065	97.34	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	1488830	96.85	ppb	98
16) Methyl-tert-butyl ether* (	2.41	73	3568160	101.11	ppb	# 100
17) 1,1-Dichloroethane*	2.67	63	4362347	98.07	ppb	99
18) Vinyl Acetate	2.77	43	2593597	93.14	ppb	98
19) N-Hexane	2.40	57	2585335	96.37	ppb	99
20) N-Butanol	2.76	57	1381797	99.51	ppb	97
21) 2-Butanone (MEK)	3.23	43	1060417	260.09	ppb	# 99
22) cis-1,2-Dichloroethene*	2.93	61	2982823	104.15	ppb	99
23) Bromochloromethane	3.04	128	527026	111.26	ppb	94
24) Chloroform*	3.07	83	3801589	101.29	ppb	99
25) 2-2-Dichloropropane	2.99	77	3703377	97.38	ppb	100
28) 1,2-Dichloroethane	3.50	62	2899396	102.01	ppb	100
29) 1,1,1-Trichloroethane*	3.19	97	3809600	98.24	ppb	98
30) 1,1-Dichloropropene	3.25	75	2624497	100.29	ppb	100
31) Carbon Tetrachloride	3.15	117	3431901	101.16	ppb	98
32) Benzene*	3.39	78	5354397	104.97	ppb	99
33) Dibromomethane	3.96	93	925346	102.82	ppb	99
34) 1,2-Dichloropropane	4.02	63	1394183	103.44	ppb	99
35) Trichloroethene*	3.70	95	1826153	102.63	ppb	100
36) Bromodichloromethane	4.04	83	2656379	103.76	ppb	98
37) 2-Chloroethyl-vinyl ether	4.38	63	1776062	522.19	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	2237152	104.93	ppb	97
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	2525886	277.84	ppb	99
40) trans-1,3-Dichloropene	4.85	75	2085814	109.74	ppb	99
41) 1,1,2-Trichloroethane	4.97	83	801559	107.13	ppb	96
43) Toluene*	4.59	91	6274521	105.57	ppb	99
44) Ethyl Methacrylate	4.94	69	180454	114.08	ppb	# 93
45) 1,3-Dichloropropane	5.17	76	1663475	107.08	ppb	99
46) 2-Hexanone	5.41	43	1838089	288.29	ppb	100
48) Dibromochloromethane	5.10	129	1296026	113.55	ppb	100
49) 1,2-Dibromoethane (EDB)	5.28	107	1020840	117.26	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0601006.D 022020RC.M Tue Feb 25 15:30:41 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0601006.D  
 Acq On : 20 Feb 2020 12:18 pm  
 Sample : 100ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:56 2020

Vial: 6  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:55:48 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	1266567	110.86	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.70	131	1268366	109.14	ppb	96
52) Chlorobenzene*	5.66	112	3893272	111.26	ppb	99
53) Ethyl Benzene*	5.67	91	8699801	119.15	ppb	98
54) m,p-Xylene	5.77	91	12792553	220.91	ppb	94
55) o-Xylene*	6.11	106	2457409	114.11	ppb	99
56) Bromoform	6.18	173	609223	122.15	ppb	99
57) Styrene	6.15	104	3947723	122.48	ppb	96
58) 1,1,2,2-Tetrachloroethane	6.75	85	683187	114.21	ppb	94
59) trans-1,4-Dichloro-2-buten	6.90	53	411529	113.77	ppb	94
60) 1,2,3-Trichloropropane	6.87	75	1532314	120.64	ppb #	99
61) Isopropylbenzene	6.35	105	8547798	125.17	ppb	98
63) Bromobenzene	6.69	156	1215209	115.16	ppb	95
64) N-Propylbenzene*	6.69	91	10711633	113.16	ppb	100
65) 2-Chlorotoluene	6.83	91	7040619	114.17	ppb	99
66) 4-Chlorotoluene	6.97	126	1376722	115.00	ppb	98
68) 1,3,5-Trimethylbenzene	6.85	105	7248720	112.28	ppb	98
69) tert-butylbenzene	7.12	119	6474998	112.74	ppb	100
70) 1,2,4-Trimethylbenzene	7.18	105	6922556	109.87	ppb	100
71) sec-Butylbenzene	7.28	105	9828696	116.43	ppb	99
72) 1,3-Dichlorobenzene	7.48	146	2385408	111.48	ppb	98
73) 1,4-Dichlorobenzene	7.55	148	1467659	109.07	ppb	99
74) p-Isopropyltoluene	7.39	119	7385002	114.96	ppb	99
75) 1,2-Dichlorobenzene	7.93	146	2033959	112.04	ppb	98
76) N-Butylbenzene	7.76	91	8647271	114.45	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.65	155	93807	109.73	ppb	96
78) 1,2,4-Trichlorobenzene	9.28	180	1412036	114.42	ppb	98
79) Naphthalene	9.59	128	2301204	122.98	ppb	99
80) Hexachloro-1,3-butadiene	9.24	225	766658	104.56	ppb	97
81) 1,2,3-Trichlorobenzene	9.77	180	1133317	115.34	ppb	99
82) 1-Methylnaphthalene	10.74	142	909749	125.02	ppb	100
83) 2-Methylnaphthalene	10.59	142	1128052	134.74	ppb	98

(#) = qualifier out of range (m) = manual integration  
 0601006.D 022020RC.M Tue Feb 25 15:30:41 2020

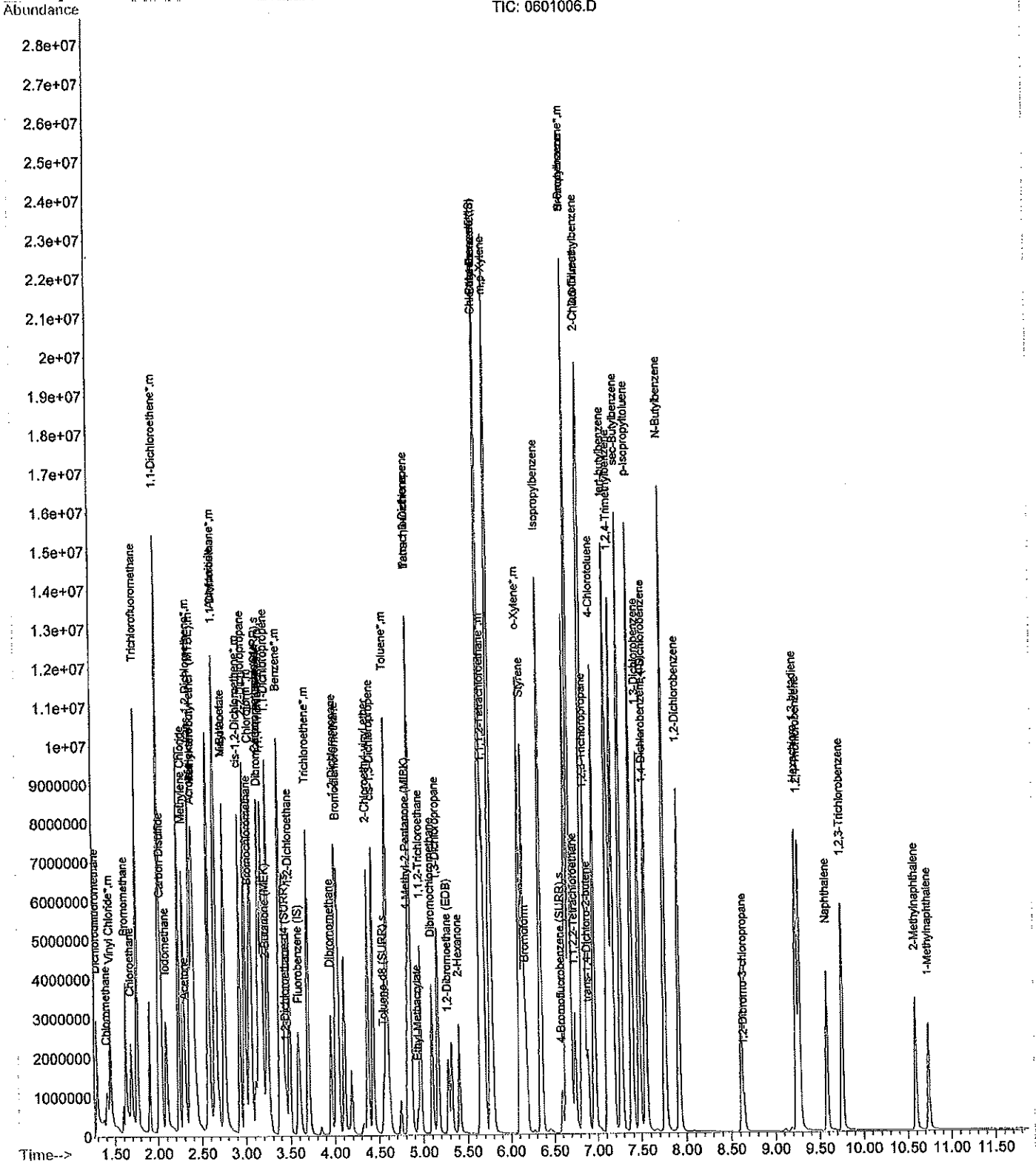
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0601006.D  
Acq On : 20 Feb 2020 12:18 pm  
Sample : 100ppb 8260 ical  
Misc : 092319 VOC1 curve. 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 12:56 2020

Vial: 6  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0701007.D  
 Acq On : 20 Feb 2020 12:34 pm  
 Sample : 200ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:56 2020

Vial: 7  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:56:06 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	772093	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	560768	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	220560	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	284744	52.80	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	105.60%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	347921	49.41	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	98.82%
42) Toluene-d8 (SURR)	4.55	98	844238	54.29	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	108.58%
62) 4-Bromofluorobenzene (SURR)	6.59	95	335380	49.93	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	99.86%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	4587087m	204.22	ppb	
3) Chloromethane	1.41	50	3024795	212.41	ppb	# 94
4) Vinyl Chloride*	1.45	62	3732353	205.68	ppb	92
5) Bromomethane	1.62	94	3052326	170.25	ppb	80
6) Chloroethane	1.69	64	2274485	188.82	ppb	89
7) Acrolein	2.40	56	2455316	187.79	ppb	97
8) Trichlorofluoromethane	1.76	101	8825434	192.79	ppb	90
9) Acetone	2.31	43	1638803	347.53	ppb	99
10) 1,1-Dichloroethene*	2.01	61	7006618	198.81	ppb	98
11) Acrylonitrile	2.65	53	7516931	191.91	ppb	99
12) Iodomethane	2.09	142	3910336	226.79	ppb	99
13) Methylene Chloride	2.29	84	2980988	173.80	ppb	94
14) Carbon Disulfide	2.04	76	4982607	207.51	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	2973849	204.36	ppb	98
16) Methyl-tert-butyl ether* (	2.41	73	6518349	193.39	ppb	# 100
17) 1,1-Dichloroethane*	2.67	63	8255984	194.92	ppb	99
18) Vinyl Acetate	2.77	43	4661810	172.38	ppb	98
19) N-Hexane	2.40	57	4729469	187.49	ppb	98
20) N-Butanol	2.76	57	2495298	186.40	ppb	99
21) 2-Butanone (MEK)	3.23	43	1842087	460.14	ppb	# 98
22) cis-1,2-Dichloroethene*	2.93	61	5748433	207.02	ppb	100
23) Bromochloromethane	3.04	128	956935	202.16	ppb	91
24) Chloroform*	3.06	83	7349042	203.67	ppb	99
25) 2-2-Dichloropropane	2.99	77	7358715	204.13	ppb	99
28) 1,2-Dichloroethane	3.50	62	5228713	193.06	ppb	99
29) 1,1,1-Trichloroethane*	3.19	97	7638138	207.95	ppb	96
30) 1,1-Dichloropropene	3.25	75	5223120	208.53	ppb	99
31) Carbon Tetrachloride	3.15	117	6979692	217.56	ppb	97
32) Benzene*	3.39	78	10314439	207.75	ppb	97
33) Dibromomethane	3.96	93	1712961	196.99	ppb	97
34) 1,2-Dichloropropane	4.01	63	2761206	210.04	ppb	97
35) Trichloroethene*	3.70	95	3665009	212.55	ppb	99
36) Bromodichloromethane	4.04	83	5207748	212.38	ppb	98
37) 2-Chloroethyl-vinyl ether	4.38	63	2811206	813.03	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	4332983	208.57	ppb	95
39) 4-Methyl-2-Pentanone (MIBK	4.82	43	4611328	523.75	ppb	99
40) trans-1,3-Dichloropene	4.85	75	4071342	221.29	ppb	77
41) 1,1,2-Trichloroethane	4.97	83	1516746	206.14	ppb	97
43) Toluene*	4.58	91	12298208	212.21	ppb	96
44) Ethyl Methacrylate	4.94	69	354644	237.26	ppb	# 100
45) 1,3-Dichloropropane	5.17	76	3170153	209.47	ppb	98
46) 2-Hexanone	5.41	43	3243773	521.96	ppb	100
48) Dibromochloromethane	5.10	129	2557381	205.99	ppb	99
49) 1,2-Dibromoethane (EDB)	5.28	107	1900103	197.80	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0701007.D 022020RC.M Tue Feb 25 15:30:58 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0701007.D  
 Acq On : 20 Feb 2020 12:34 pm  
 Sample : 200ppb 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 20 12:56 2020

Vial: 7  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 12:56:06 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	2706979	215.17	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.70	131	2683123	211.69	ppb	98
52) Chlorobenzene*	5.66	112	8446944	220.84	ppb	97
53) Ethyl Benzene*	5.67	91	14260604	176.18	ppb	# 88
54) m,p-Xylene	5.77	91	17328213	274.14	ppb	# 60
55) o-Xylene*	6.11	106	5128216	216.71	ppb	86
56) Bromoform	6.18	173	1176094	214.15	ppb	99
57) Styrene	6.15	104	8008079	223.90	ppb	94
58) 1,1,2,2-Tetrachloroethane	6.75	85	1260833	192.22	ppb	94
59) trans-1,4-Dichloro-2-buten	6.90	53	765284	198.94	ppb	98
60) 1,2,3-Trichloropropane	6.87	75	2875929	206.45	ppb	# 92
61) Isopropylbenzene	6.35	105	13717836	177.80	ppb	# 87
63) Bromobenzene	6.69	156	2551038	218.74	ppb	90
64) N-Propylbenzene*	6.69	91	14724490	143.81	ppb	# 82
65) 2-Chlorotoluene	6.83	91	13023295	195.65	ppb	96
66) 4-Chlorotoluene	6.97	126	2845773	216.50	ppb	79
68) 1,3,5-Trimethylbenzene	6.85	105	12708202	188.01	ppb	90
69) tert-butylbenzene	7.12	119	12932744	213.83	ppb	99
70) 1,2,4-Trimethylbenzene	7.18	105	12445066	189.58	ppb	90
71) sec-Butylbenzene	7.27	105	14074536	159.65	ppb	# 88
72) 1,3-Dichlorobenzene	7.47	146	5030141	221.79	ppb	98
73) 1,4-Dichlorobenzene	7.55	148	3102540	217.83	ppb	98
74) p-Isopropyltoluene	7.39	119	12379322	184.13	ppb	89
75) 1,2-Dichlorobenzene	7.93	146	4237854	219.84	ppb	97
76) N-Butylbenzene	7.76	91	13435716	171.03	ppb	# 76
77) 1,2-Dibromo-3-chloropropan	8.65	155	172716	190.80	ppb	94
78) 1,2,4-Trichlorobenzene	9.28	180	2897315	220.77	ppb	99
79) Naphthalene	9.59	128	4347207	216.90	ppb	99
80) Hexachloro-1,3-butadiene	9.24	225	1631065	214.13	ppb	99
81) 1,2,3-Trichlorobenzene	9.76	180	2237192	213.73	ppb	100
82) 1-Methylnaphthalene	10.74	142	1735583	224.32	ppb	98
83) 2-Methylnaphthalene	10.59	142	2259356	252.26	ppb	100



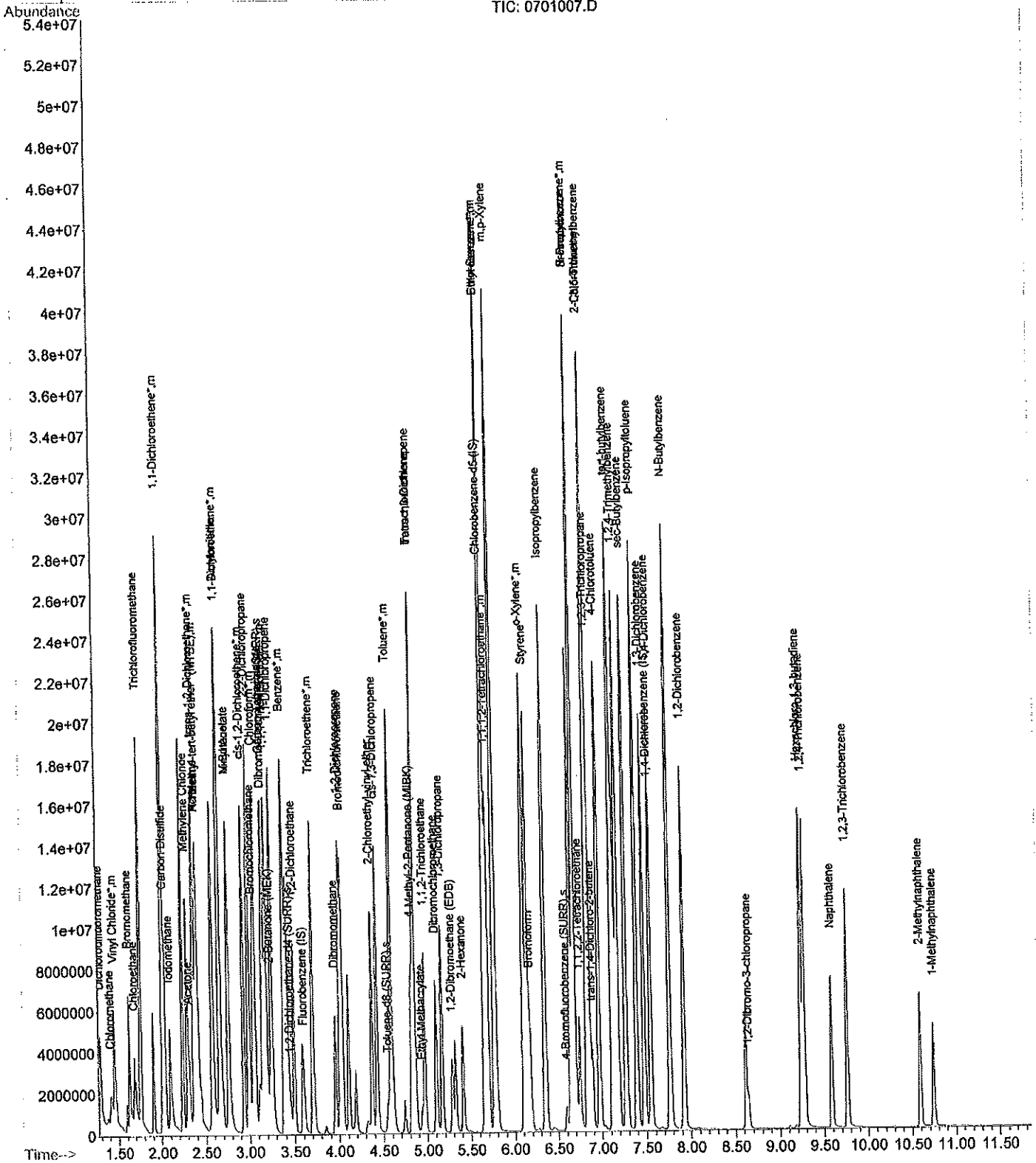
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0701007.D  
Acq On : 20 Feb 2020 12:34 pm  
Sample : 200ppb 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 20 12:56 2020

Vial: 7  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
 Acq On : 20 Feb 2020 12:51 pm  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Fluorobenzene (IS)	1.000	1.000	0.0	111	0.00
2	Dichlorodifluoromethane	1.414	1.510	-6.8	110	0.00
3	Chloromethane	0.881	0.918	-4.2	115	0.00
4 m	Vinyl Chloride*	1.139	1.176	-3.2	108	0.00
5	Bromomethane	1.088	1.141	-4.9	112	0.00
6	Chloroethane	0.741	0.783	-5.7	110	0.00
7	Acrolein	0.789	0.870	-10.3	113	0.00
8	Trichlorofluoromethane	2.863	3.140	-9.7	113	0.00
9	Acetone	0.248	0.245	1.2	101	0.00
10 m	1,1-Dichloroethene*	2.171	2.282	-5.1	108	0.00
11	Acrylonitrile	2.304	2.454	-6.5	110	0.00
12	Iodomethane	1.136	1.208	-6.3	112	0.00
13	Methylene Chloride	1.066	1.009	5.3	107	0.00
14	Carbon Disulfide	1.458	1.554	-6.6	112	0.00
15 m	trans-1,2-Dichloroethene*	0.889	0.952	-7.1	112	0.00
16 m	Methyl-tert-butyl ether* (M	2.075	2.299	-10.8	113	0.00
17 m	1,1-Dichloroethane*	2.598	2.767	-6.5	112	0.00
18	Vinyl Acetate	1.624	1.630	-0.4	109	0.00
19	N-Hexane	1.522	1.691	-11.1	111	0.00
20	N-Butanol	0.825	0.918	-11.3	114	0.00
21	2-Butanone (MEK)	0.251	0.275	-9.6	112	0.00
22 m	cis-1,2-Dichloroethene*	1.721	1.837	-6.7	112	0.00
23	Bromochloromethane	0.297	0.326	-9.8	113	0.00
24 m	Chloroform*	2.235	2.313	-3.5	109	0.00
25	2-2-Dichloropropane	2.203	2.253	-2.3	109	0.00
26 s	Dibromofluoromethane (SURR)	0.349	0.344	1.4	104	0.00
27 s	1,2-Dichloroethane-d4 (SURR)	0.452	0.448	0.9	104	0.00
28	1,2-Dichloroethane	1.661	1.754	-5.6	111	0.00
29 m	1,1,1-Trichloroethane*	2.233	2.287	-2.4	107	0.00
30	1,1-Dichloropropene	1.534	1.662	-8.3	110	0.00
31	Carbon Tetrachloride	1.889	1.931	-2.2	101	0.00
32 m	Benzene*	3.116	3.353	-7.6	114	0.00
33	Dibromomethane	0.542	0.571	-5.4	111	0.00
34	1,2-Dichloropropane	0.828	0.889	-7.4	112	0.00
35 m	Trichloroethene*	1.073	1.136	-5.9	113	0.00
36	Bromodichloromethane	1.513	1.635	-8.1	114	0.00
37	2-Chloroethyl-vinyl ether	0.228	0.230	-0.9	104	0.00
38	cis-1,3-Dichloropropene	1.296	1.352	-4.3	107	0.00
39	4-Methyl-2-Pentanone (MIBK)	0.596	0.644	-8.1	114	0.00
40	trans-1,3-Dichloropene	1.150	1.273	-10.7	116	0.00
41	1,1,2-Trichloroethane	0.466	0.502	-7.7	110	0.00
42 s	Toluene-d8 (SURR)	0.994	1.006	-1.2	109	0.00
43 m	Toluene*	3.666	3.953	-7.8	118	0.00
44	Ethyl Methacrylate	0.106	0.107	-0.9	110	0.00
45	1,3-Dichloropropane	0.956	1.055	-10.4	113	0.00
46	2-Hexanone	0.420	0.456	-8.6	112	0.00
47	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	111	0.00
48	Dibromochloromethane	1.112	1.250	-12.4	113	0.00
49	1,2-Dibromoethane (EDB)	0.862	0.955	-10.8	113	0.00
50	Tetrachloroethene	1.135	1.224	-7.8	116	0.00
51 m	1,1,1,2-Tetrachloroethane*	1.140	1.204	-5.6	114	0.00
52 m	Chlorobenzene*	3.454	3.619	-4.8	111	0.00
53 m	Ethyl Benzene*	7.238	7.924	-9.5	112	0.00
54	m,p-Xylene	6.100	6.208	-1.8	109	0.00
55 m	o-Xylene*	2.131	2.340	-9.8	113	0.00
56	Bromoform	0.480	0.560	-16.7	116	0.00
57	Styrene	3.252	3.511	-8.0	115	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
 Acq On : 20 Feb 2020 12:51 pm  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58 1,1,2,2-Tetrachloroethane	0.589	0.657	-11.5	122	0.00
59 trans-1,4-Dichloro-2-butene	0.339	0.377	-11.2	109	0.00
60 1,2,3-Trichloropropane	1.127	1.316	-16.8	122	0.00
61 Isopropylbenzene	6.894	7.608	-10.4	108	0.00
62 s 4-Bromofluorobenzene (SURR)	0.589	0.583	1.0	106	0.00
63 Bromobenzene	1.052	1.112	-5.7	115	0.00
64 m N-Propylbenzene*	9.109	9.829	-7.9	111	0.00
65 2-Chlorotoluene	5.913	6.394	-8.1	111	0.00
66 4-Chlorotoluene	1.185	1.270	-7.2	115	0.00
67 1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	115	0.00
68 1,3,5-Trimethylbenzene	15.331	15.946	-4.0	112	0.00
69 tert-butylbenzene	13.767	14.230	-3.4	113	0.00
70 1,2,4-Trimethylbenzene	14.907	15.949	-7.0	116	0.00
71 sec-Butylbenzene	20.421	21.647	-6.0	111	0.00
72 1,3-Dichlorobenzene	5.246	5.378	-2.5	114	0.00
73 1,4-Dichlorobenzene	3.299	3.431	-4.0	117	0.00
74 p-Isopropyltoluene	15.314	15.919	-4.0	112	0.00
75 1,2-Dichlorobenzene	4.457	4.662	-4.6	116	0.00
76 N-Butylbenzene	17.865	19.591	-9.7	111	0.00
77 1,2-Dibromo-3-chloropropane	0.207	0.241	-16.4	126	0.00
78 1,2,4-Trichlorobenzene	3.012	3.250	-7.9	117	0.00
79 Naphthalene	4.613	4.729	-2.5	106	0.00
80 Hexachloro-1,3-butadiene	1.734	1.867	-7.7	118	0.00
81 1,2,3-Trichlorobenzene	2.401	2.826	-17.7	125	0.00
82 1-Methylnaphthalene	1.990	2.000	-0.5	109	0.00
83 2-Methylnaphthalene	2.339	2.757	-17.9	125	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
 Acq On : 20 Feb 2020 12:51 pm  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOCl curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 21 15:07 2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	823019	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	540370	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	220355	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Dibromofluoromethane (SURR)	3.16	113	283197	49.25	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	98.50%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	368649	49.50	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	99.00%
42) Toluene-d8 (SURR)	4.55	98	828317	50.64	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	101.28%
62) 4-Bromofluorobenzene (SURR)	6.59	95	314956	49.47	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	98.94%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	1242589	53.39	ppb	91
3) Chloromethane	1.40	50	755198	52.08	ppb	99
4) Vinyl Chloride*	1.44	62	968255	51.62	ppb	100
5) Bromomethane	1.62	94	939146	52.46	ppb	98
6) Chloroethane	1.69	64	644051	52.80	ppb	100
7) Acrolein	2.38	56	716115	55.15	ppb	98
8) Trichlorofluoromethane	1.76	101	2584311	54.83	ppb	100
9) Acetone	2.31	43	503883	123.22	ppb	99
10) 1,1-Dichloroethene*	2.01	61	1877988	52.55	ppb	99
11) Acrylonitrile	2.65	53	2019519	53.26	ppb	98
12) Iodomethane	2.09	142	993827	53.15	ppb	99
13) Methylene Chloride	2.29	84	830155	47.33	ppb	99
14) Carbon Disulfide	2.04	76	1278603	53.27	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	783282	53.50	ppb	97
16) Methyl-tert-butyl ether* (	2.41	73	1892172	55.39	ppb	# 100
17) 1,1-Dichloroethane*	2.66	63	2277094	53.26	ppb	99
18) Vinyl Acetate	2.76	43	1341870	50.20	ppb	100
19) N-Hexane	2.39	57	1391500	55.55	ppb	99
20) N-Butanol	2.76	57	755138	55.60	ppb	99
21) 2-Butanone (MEK)	3.22	43	566076	136.76	ppb	# 97
22) cis-1,2-Dichloroethene*	2.93	61	1512230	53.38	ppb	99
23) Bromochloromethane	3.04	128	268161	54.88	ppb	93
24) Chloroform*	3.06	83	1903641	51.74	ppb	100
25) 2-2-Dichloropropene	2.99	77	1854625	51.15	ppb	99
28) 1,2-Dichloroethane	3.49	62	1443740	52.80	ppb	99
29) 1,1,1-Trichloroethane*	3.19	97	1881843	51.20	ppb	98
30) 1,1-Dichloropropene	3.25	75	1368161	54.18	ppb	100
31) Carbon Tetrachloride	3.15	117	1588861	51.10	ppb	97
32) Benzene*	3.38	78	2759826	53.80	ppb	99
33) Dibromomethane	3.96	93	469546	52.64	ppb	94
34) 1,2-Dichloropropene	4.01	63	731876	53.68	ppb	96
35) Trichloroethene*	3.70	95	934731	52.92	ppb	99
36) Bromodichloromethane	4.04	83	1345435	54.02	ppb	100
37) 2-Chloroethyl-vinyl ether	4.37	63	757621	201.80	ppb	98
38) cis-1,3-Dichloropropene	4.43	75	1112510	52.13	ppb	96
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	1324312	135.03	ppb	97
40) trans-1,3-Dichloropene	4.85	75	1047692	55.32	ppb	79
41) 1,1,2-Trichloroethane	4.97	83	413111	53.83	ppb	97
43) Toluene*	4.59	91	3253356	53.92	ppb	99
44) Ethyl Methacrylate	4.94	69	88235	50.42	ppb	# 99
45) 1,3-Dichloropropene	5.17	76	868271	55.21	ppb	100
46) 2-Hexanone	5.41	43	938806	135.68	ppb	98
48) Dibromochloromethane	5.10	129	675370	56.19	ppb	99
49) 1,2-Dibromoethane (EDB)	5.28	107	516217	55.42	ppb	100

(#) = qualifier out of range (m) = manual integration  
 0801008.D 022020RC.M Tue Feb 25 15:31:12 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\NPHCHEM\1\DATA\022020C\0801008.D  
 Acq On : 20 Feb 2020 12:51 pm  
 Sample : 50ppb ICV 8260 ical  
 Misc : 092319 VOCl curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 21 15:07 2020

Vial: 8  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\NPHCHEM\MSEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	661526	53.92	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.69	131	650716	52.82	ppb	98
52) Chlorobenzene*	5.66	112	1955501	52.39	ppb	98
53) Ethyl Benzene*	5.66	91	4281800	54.74	ppb	99
54) m,p-Xylene	5.77	91	6709447	101.78	ppb	99
55) o-Xylene*	6.11	106	1264585	54.90	ppb	96
56) Bromoform	6.18	173	302633	58.32	ppb	99
57) Styrene	6.14	104	1897456	54.00	ppb	98
58) 1,1,2,2-Tetrachloroethane	6.74	85	354996	55.76	ppb	91
59) trans-1,4-Dichloro-2-buten	6.89	53	203838	55.59	ppb	99
60) 1,2,3-Trichloropropane	6.87	75	711308m	58.38	ppb	
61) Isopropylbenzene	6.35	105	4111265	55.18	ppb	100
63) Bromobenzene	6.68	156	600767	52.82	ppb	94
64) N-Propylbenzene*	6.69	91	5311421	53.96	ppb	100
65) 2-Chlorotoluene	6.83	91	3455115	54.07	ppb	99
66) 4-Chlorotoluene	6.97	126	686382	53.58	ppb	95
68) 1,3,5-Trimethylbenzene	6.84	105	3513804	52.01	ppb	100
69) tert-butylbenzene	7.12	119	3135743	51.68	ppb	100
70) 1,2,4-Trimethylbenzene	7.18	105	3514509	53.49	ppb	99
71) sec-Butylbenzene	7.27	105	4769950	53.00	ppb	100
72) 1,3-Dichlorobenzene	7.47	146	1185129	51.26	ppb	100
73) 1,4-Dichlorobenzene	7.55	148	756005	52.00	ppb	98
74) p-Isopropyltoluene	7.39	119	3507921	51.98	ppb	99
75) 1,2-Dichlorobenzene	7.93	146	1027397	52.30	ppb	98
76) N-Butylbenzene	7.76	91	4316915	54.83	ppb	100
77) 1,2-Dibromo-3-chloropropan	8.65	155	53030	58.24	ppb	97
78) 1,2,4-Trichlorobenzene	9.28	180	716132	53.94	ppb	97
79) Naphthalene	9.59	128	1042104	51.27	ppb	
80) Hexachloro-1,3-butadiene	9.24	225	411323	53.82	ppb	98
81) 1,2,3-Trichlorobenzene	9.76	180	622707	58.86	ppb	99
82) 1-Methylnaphthalene	10.74	142	440652	50.23	ppb	
83) 2-Methylnaphthalene	10.59	142	607467	58.93	ppb	

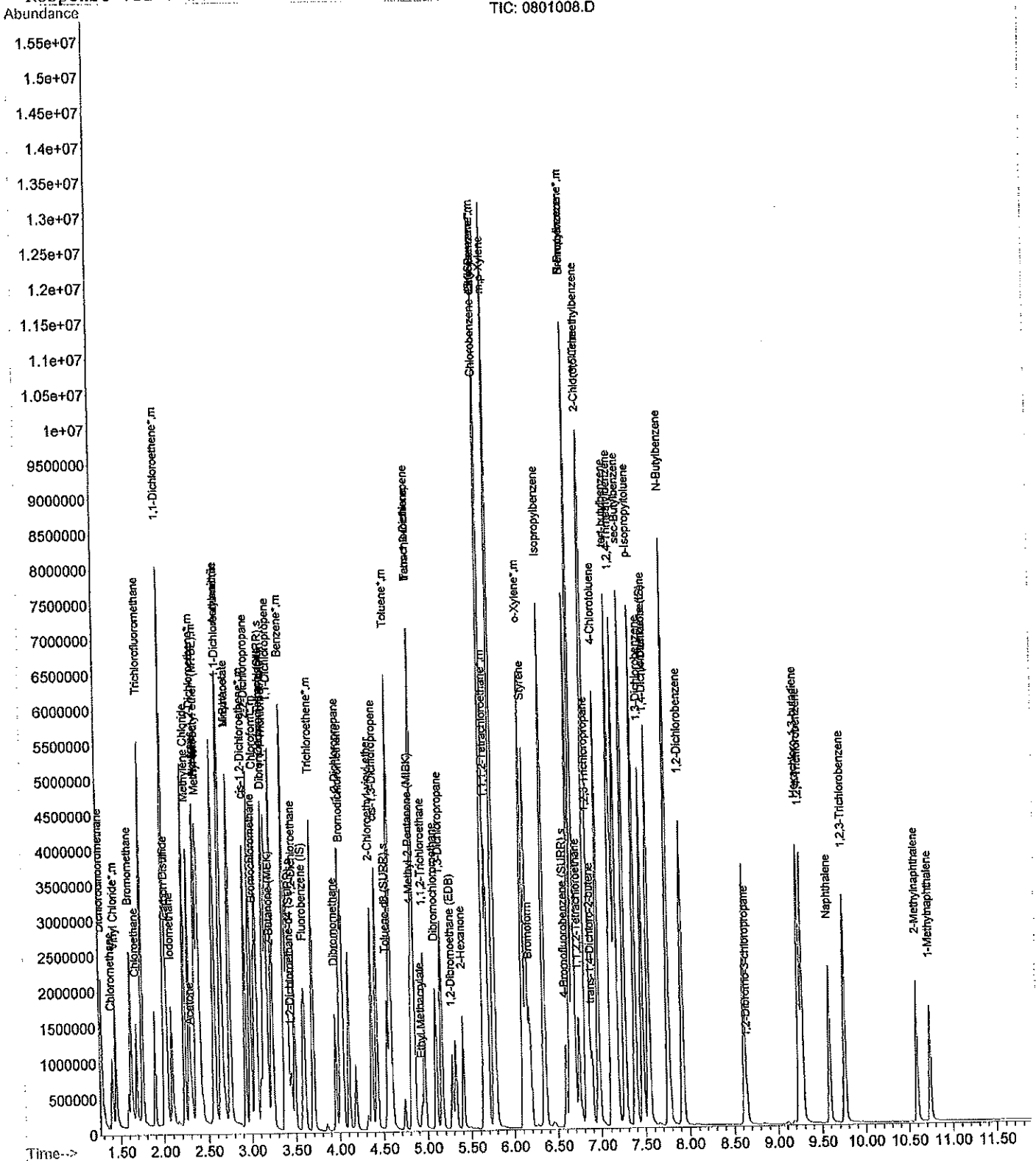
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022020C\0801008.D  
Acq On : 20 Feb 2020 12:51 pm  
Sample : 50ppb ICV 8260 ical  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 21 15:07 2020

Vial: 8  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



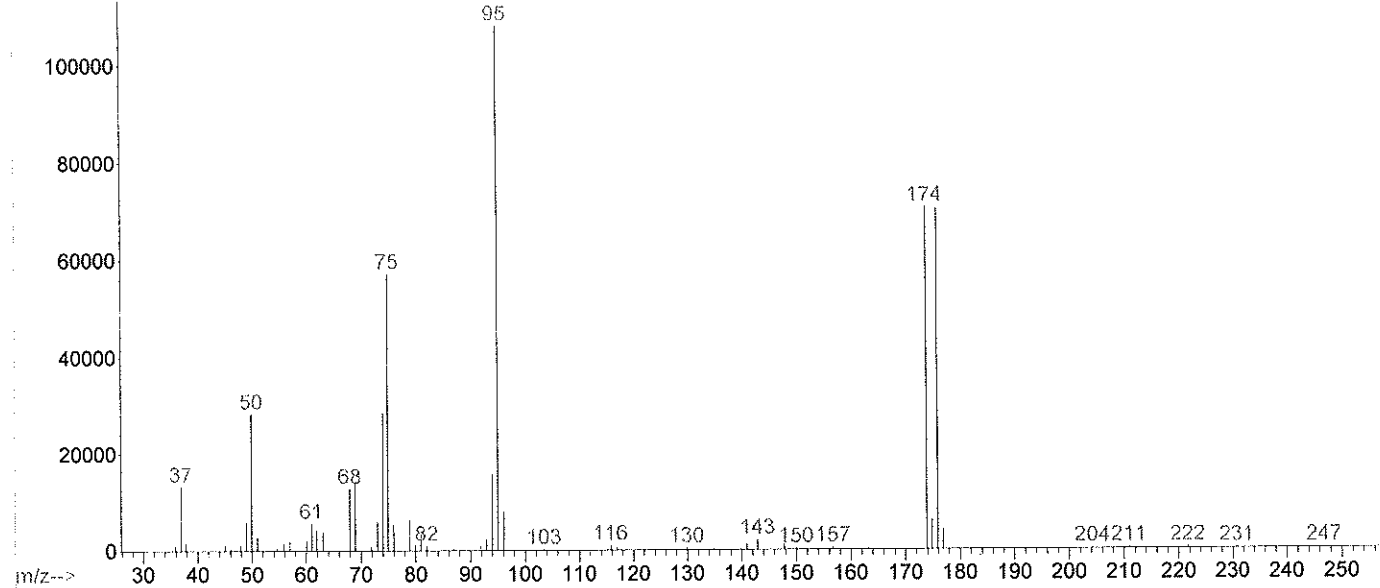
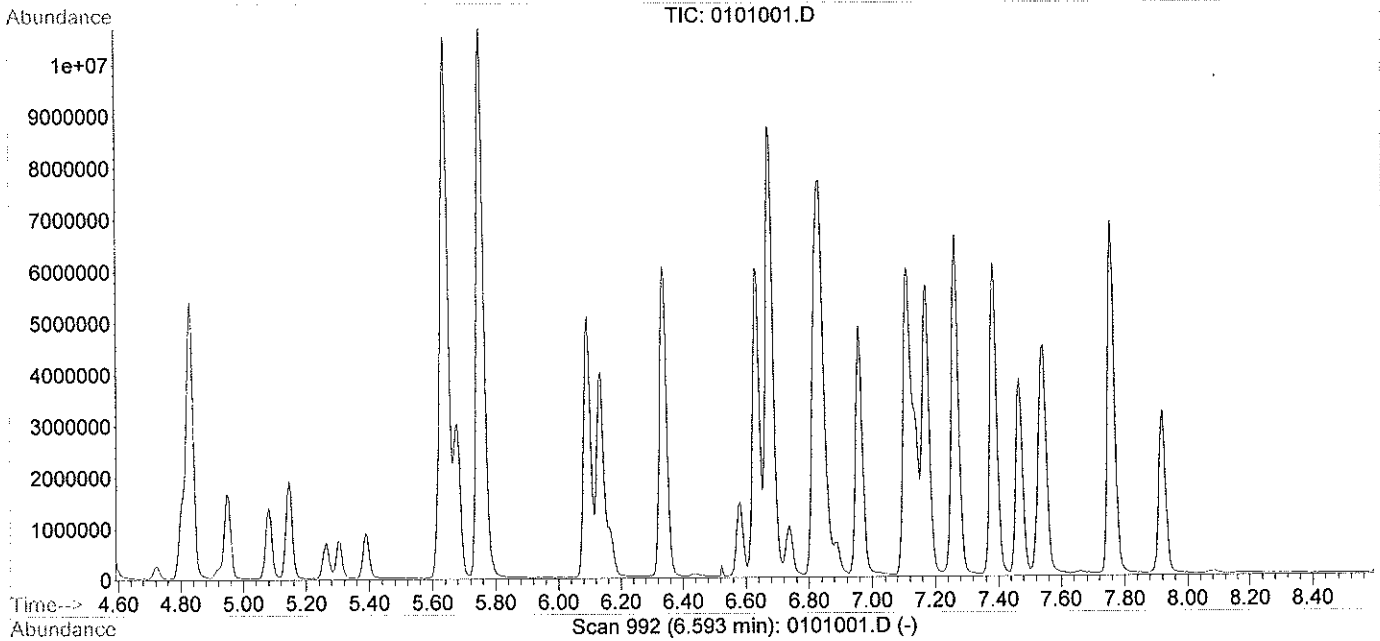


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## 8260 VOC Continuing Calibration Data

- Tune Data
- Continuing Calibration Verification Summary
- Continuing Calibration Verification (CCV) Quant Report
- Internal Standard Area Summary

Data File : C:\HPCHEM\1\DATA\022620\0101001.D Vial: 1  
 Acq On : 26 Feb 2020 10:20 am Operator: gjd  
 Sample : BFB/CCV 50ppb Inst : VOC 1  
 Misc : 092319 VOC1 curve, 8260 ical Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration



Spectrum Information: Scan 992

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.3	28406	PASS
75	95	30	60	53.0	57256	PASS
95	95	100	100	100.0	108063	PASS
96	95	5	9	7.4	8018	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.3	70564	PASS
175	174	5	9	8.7	6168	PASS
176	174	95	101	99.7	70371	PASS
177	176	4	9	5.9	4142	PASS



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022620\0201002.D  
 Acq On : 26 Feb 2020 10:37 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Fluorobenzene (IS)	1.000	1.000	0.0	107	0.00
2	Dichlorodifluoromethane	1.414	1.536	-8.6	108	0.00
3	Chloromethane	0.881	0.875	0.7	106	0.00
4 m	Vinyl Chloride*	1.139	1.155	-1.4	102	0.00
5	Bromomethane	1.088	1.197	-10.0	113	0.00
6	Chloroethane	0.741	0.796	-7.4	108	0.00
7	Acrolein	0.789	0.813	-3.0	101	0.00
8	Trichlorofluoromethane	2.863	3.179	-11.0	110	0.00
9	Acetone	0.248	0.271	-9.3	108	0.00
10 m	1,1-Dichloroethene*	2.171	2.262	-4.2	103	0.00
11	Acrylonitrile	2.304	2.372	-3.0	103	0.00
12	Iodomethane	1.136	1.156	-1.8	103	0.00
13	Methylene Chloride	1.066	1.033	3.1	105	0.00
14	Carbon Disulfide	1.458	1.525	-4.6	106	0.00
15 m	trans-1,2-Dichloroethene*	0.889	0.934	-5.1	106	0.00
16 m	Methyl-tert-butyl ether* (M	2.075	2.111	-1.7	100	0.00
17 m	1,1-Dichloroethane*	2.598	2.646	-1.8	103	0.00
18	Vinyl Acetate	1.624	1.688	-3.9	109	0.00
19	N-Hexane	1.522	1.588	-4.3	100	0.00
20	N-Butanol	0.825	0.861	-4.4	103	0.00
21	2-Butanone (MEK)	0.251	0.251	0.0	98	0.00
22 m	cis-1,2-Dichloroethene*	1.721	1.697	1.4	99	0.00
23	Bromochloromethane	0.297	0.302	-1.7	100	0.00
24 m	Chloroform*	2.235	2.168	3.0	98	0.00
25	2,2-Dichloropropane	2.203	2.256	-2.4	105	0.00
26 s	Dibromofluoromethane (SURR)	0.349	0.404	-15.8	117	0.00
27 s	1,2-Dichloroethane-d4 (SURR)	0.452	0.525	-16.2	117	0.00
28	1,2-Dichloroethane	1.661	1.699	-2.3	103	0.00
29 m	1,1,1-Trichloroethane*	2.233	2.306	-3.3	104	0.00
30	1,1-Dichloropropene	1.534	1.581	-3.1	100	0.00
31	Carbon Tetrachloride	1.889	2.131	-12.8	108	0.00
32 m	Benzene*	3.116	3.022	3.0	99	0.00
33	Dibromomethane	0.542	0.537	0.9	100	0.00
34	1,2-Dichloropropane	0.828	0.795	4.0	96	0.00
35 m	Trichloroethene*	1.073	1.071	0.2	103	0.00
36	Bromodichloromethane	1.513	1.564	-3.4	105	0.00
37	2-Chloroethyl-vinyl ether	0.228	0.246	-7.9	107	0.00
38	cis-1,3-Dichloropropene	1.296	1.289	0.5	99	0.00
39	4-Methyl-2-Pentanone (MIBK)	0.596	0.546	8.4	93	0.00
40	trans-1,3-Dichloropene	1.150	1.164	-1.2	102	0.00
41	1,1,2-Trichloroethane	0.466	0.471	-1.1	100	0.00
42 s	Toluene-d8 (SURR)	0.994	1.139	-14.6	119	0.00
43 m	Toluene*	3.666	3.681	-0.4	105	0.00
44	Ethyl Methacrylate	0.106	0.099	6.6	98	0.00
45	1,3-Dichloropropane	0.956	0.956	0.0	99	0.00
46	2-Hexanone	0.420	0.407	3.1	96	0.00
47	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	112	0.00
48	Dibromochloromethane	1.112	1.127	-1.3	102	0.00
49	1,2-Dibromoethane (EDB)	0.862	0.832	3.5	99	0.00
50	Tetrachloroethene	1.135	1.136	-0.1	108	0.00
51 m	1,1,1,2-Tetrachloroethane*	1.140	1.120	1.8	106	0.00
52 m	Chlorobenzene*	3.454	3.360	2.7	103	0.00
53 m	Ethyl Benzene*	7.238	7.410	-2.4	105	0.00
54	m,p-Xylene	6.100	5.913	3.1	104	0.00
55 m	o-Xylene*	2.131	2.064	3.1	100	0.00
56	Bromoform	0.480	0.513	-6.9	106	0.00
57	Styrene	3.252	3.166	2.6	104	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\022620\0201002.D  
 Acq On : 26 Feb 2020 10:37 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
58	1,1,2,2-Tetrachloroethane	0.589	0.549	6.8	102	0.00
59	trans-1,4-Dichloro-2-butene	0.339	0.362	-6.8	105	0.00
60	1,2,3-Trichloropropane	1.127	1.257	-11.5	117	0.00
61	Isopropylbenzene	6.894	7.360	-6.8	105	0.00
62 s	4-Bromofluorobenzene (SURR)	0.589	0.642	-9.0	117	0.00
63	Bromobenzene	1.052	1.016	3.4	105	0.00
64 m	N-Propylbenzene*	9.109	9.304	-2.1	105	0.00
65	2-Chlorotoluene	5.913	5.928	-0.3	103	0.00
66	4-Chlorotoluene	1.185	1.201	-1.4	108	0.00
67	1,4-Dichlorobenzene (IS)	1.000	1.000	0.0	113	0.00
68	1,3,5-Trimethylbenzene	15.331	15.125	1.3	104	0.00
69	tert-butylbenzene	13.767	13.833	-0.5	108	0.00
70	1,2,4-Trimethylbenzene	14.907	15.213	-2.1	109	0.00
71	sec-Butylbenzene	20.421	21.417	-4.9	109	0.00
72	1,3-Dichlorobenzene	5.246	5.066	3.4	105	0.00
73	1,4-Dichlorobenzene	3.299	3.233	2.0	108	0.00
74	p-Isopropyltoluene	15.314	15.661	-2.3	108	0.00
75	1,2-Dichlorobenzene	4.457	4.431	0.6	108	0.00
76	N-Butylbenzene	17.865	17.907	-0.2	100	0.00
77	1,2-Dibromo-3-chloropropane	0.207	0.187	9.7	97	0.00
78	1,2,4-Trichlorobenzene	3.012	3.020	-0.3	107	0.00
79	Naphthalene	4.613	4.521	2.0	100	0.00
80	Hexachloro-1,3-butadiene	1.734	1.739	-0.3	108	0.00
81	1,2,3-Trichlorobenzene	2.401	2.450	-2.0	107	0.00
82	1-Methylnaphthalene	1.990	1.867	6.2	100	0.00
83	2-Methylnaphthalene	2.339	2.113	9.7	95	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022620\0201002.D  
 Acq On : 26 Feb 2020 10:37 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 26 10:58 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	791790	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.65	117	541472	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	216866	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.16	113	319858	57.82	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	115.64%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	415790	58.03	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	116.06%
42) Toluene-d8 (SURR)	4.55	98	901944	57.31	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	114.62%
62) 4-Bromofluorobenzene (SURR)	6.59	95	347728	54.50	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	109.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.28	85	1216248	54.32	ppb	89
3) Chloromethane	1.40	50	692694	49.66	ppb	99
4) Vinyl Chloride*	1.44	62	914128	50.66	ppb	97
5) Bromomethane	1.62	94	947614	55.03	ppb	100
6) Chloroethane	1.69	64	629985	53.68	ppb	99
7) Acrolein	2.39	56	643900	51.55	ppb	100
8) Trichlorofluoromethane	1.76	101	2517146	55.52	ppb	99
9) Acetone	2.31	43	537390	136.60	ppb	# 89
10) 1,1-Dichloroethene*	2.01	61	1791006	52.10	ppb	99
11) Acrylonitrile	2.65	53	1878285	51.49	ppb	98
12) Iodomethane	2.09	142	914943	50.86	ppb	97
13) Methylene Chloride	2.29	84	818110	48.48	ppb	98
14) Carbon Disulfide	2.04	76	1207712	52.30	ppb	# 100
15) trans-1,2-Dichloroethene*	2.36	96	739298	52.49	ppb	94
16) Methyl-tert-butyl ether* (	2.41	73	1671563	50.87	ppb	# 100
17) 1,1-Dichloroethane*	2.67	63	2095239	50.94	ppb	99
18) Vinyl Acetate	2.77	43	1336329	51.97	ppb	# 96
19) N-Hexane	2.39	57	1257443	52.18	ppb	99
20) N-Butanol	2.76	57	681939	52.19	ppb	# 96
21) 2-Butanone (MEK)	3.23	43	496113	124.59	ppb	# 97
22) cis-1,2-Dichloroethene*	2.93	61	1343932	49.31	ppb	99
23) Bromochloromethane	3.04	128	239073	50.86	ppb	92
24) Chloroform*	3.06	83	1716446	48.49	ppb	100
25) 2-2-Dichloropropane	2.99	77	1786252	51.21	ppb	100
28) 1,2-Dichloroethane	3.49	62	1345317	51.15	ppb	99
29) 1,1,1-Trichloroethane*	3.19	97	1826196	51.64	ppb	99
30) 1,1-Dichloropropene	3.25	75	1252197	51.54	ppb	99
31) Carbon Tetrachloride	3.15	117	1687667	56.42	ppb	98
32) Benzene*	3.39	78	2392972	48.49	ppb	99
33) Dibromomethane	3.96	93	424968	49.52	ppb	99
34) 1,2-Dichloropropane	4.02	63	629314	47.98	ppb	94
35) Trichloroethene*	3.70	95	848352	49.92	ppb	98
36) Bromodichloromethane	4.04	83	1238670	51.70	ppb	99
37) 2-Chloroethyl-vinyl ether	4.37	63	777730m	215.32	ppb	
38) cis-1,3-Dichloropropene	4.43	75	1020935	49.73	ppb	99
39) 4-Methyl-2-Pentanone (MIBK)	4.82	43	1080033	114.46	ppb	99
40) trans-1,3-Dichloropropene	4.86	75	921848	50.60	ppb	81
41) 1,1,2-Trichloroethane	4.97	83	373168	50.55	ppb	98
43) Toluene*	4.59	91	2914330	50.20	ppb	99
44) Ethyl Methacrylate	4.94	69	78411	46.58	ppb	# 98
45) 1,3-Dichloropropane	5.17	76	757118	50.04	ppb	97
46) 2-Hexanone	5.41	43	805033	120.94	ppb	99
48) Dibromochloromethane	5.10	129	610307	50.67	ppb	98
49) 1,2-Dibromoethane (EDB)	5.29	107	450748	48.29	ppb	99

(#) = qualifier out of range (m) = manual integration  
 0201002.D 022020RC.M Wed Feb 26 11:31:48 2020 GARY

Data File : C:\HPCHEM\1\DATA\022620\0201002.D  
 Acq On : 26 Feb 2020 10:37 am  
 Sample : BFB/CCV 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 26 10:58 2020

Vial: 2  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	615256	50.04	ppb	97
51) 1,1,1,2-Tetrachloroethane*	5.70	131	606282	49.11	ppb	99
52) Chlorobenzene*	5.66	112	1819482	48.65	ppb	100
53) Ethyl Benzene*	5.66	91	4012407	51.19	ppb	100
54) m,p-Xylene	5.77	91	6403415	96.94	ppb	99
55) o-Xylene*	6.11	106	1117388	48.41	ppb	100
56) Bromoform	6.18	173	277978	53.46	ppb	99
57) Styrene	6.15	104	1714515	48.69	ppb	98
58) 1,1,2,2-Tetrachloroethane	6.75	85	297145	46.58	ppb	96
59) trans-1,4-Dichloro-2-buten	6.90	53	195874	53.31	ppb	95
60) 1,2,3-Trichloropropane	6.87	75	680675	55.75	ppb #	97
61) Isopropylbenzene	6.35	105	3984966	53.37	ppb	99
63) Bromobenzene	6.68	156	549894	48.25	ppb	98
64) N-Propylbenzene*	6.69	91	5038001	51.07	ppb	99
65) 2-Chlorotoluene	6.83	91	3209877	50.13	ppb	99
66) 4-Chlorotoluene	6.97	126	650107	50.65	ppb	97
68) 1,3,5-Trimethylbenzene	6.85	105	3280156	49.33	ppb	99
69) tert-butylbenzene	7.12	119	3000006	50.24	ppb	99
70) 1,2,4-Trimethylbenzene	7.18	105	3299281	51.03	ppb	100
71) sec-Butylbenzene	7.27	105	4644724	52.44	ppb	100
72) 1,3-Dichlorobenzene	7.47	146	1098580	48.28	ppb	100
73) 1,4-Dichlorobenzene	7.56	148	701087	48.99	ppb	98
74) p-Isopropyltoluene	7.39	119	3396437	51.14	ppb	99
75) 1,2-Dichlorobenzene	7.93	146	960873	49.70	ppb	97
76) N-Butylbenzene	7.77	91	3883506	50.12	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.65	155	40565	45.27	ppb	98
78) 1,2,4-Trichlorobenzene	9.28	180	654886	50.12	ppb	97
79) Naphthalene	9.59	128	980346	49.00	ppb	99
80) Hexachloro-1,3-butadiene	9.24	225	377049	50.13	ppb	97
81) 1,2,3-Trichlorobenzene	9.77	180	531401	51.04	ppb	98
82) 1-Methylnaphthalene	10.75	142	404842	46.89	ppb	97
83) 2-Methylnaphthalene	10.59	142	458154	45.16	ppb	98

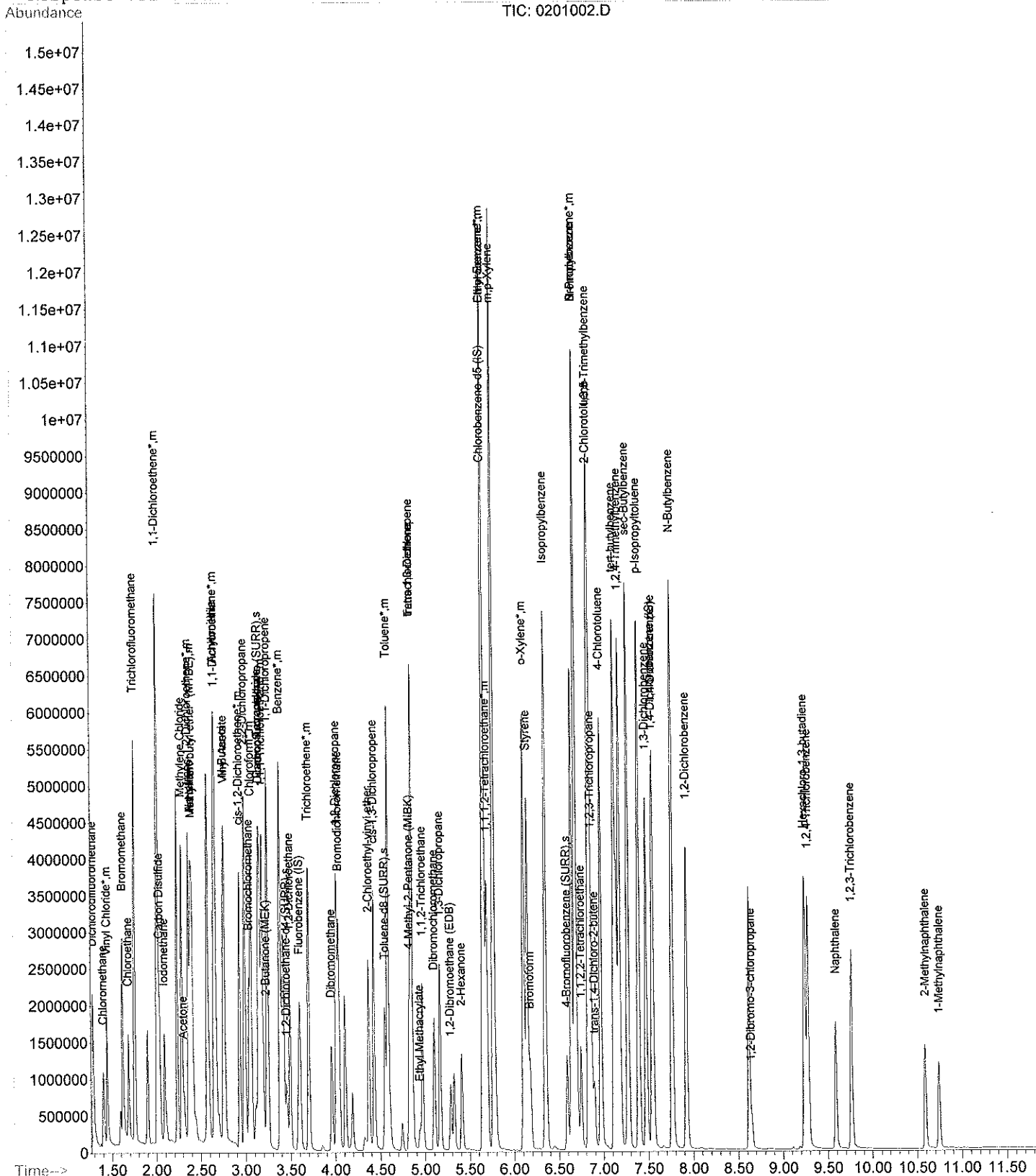
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022620\0201002.D  
Acq On : 26 Feb 2020 10:37 am  
Sample : BFB/CCV 50ppb  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 26 10:58 2020

Vial: 2  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\022620\0201002.D

Tune Time : 26 Feb 2020 10:37 am

Daily Calibration File : C:\HPCHEM\1\DATA\022620\0201002.D

791790 541472 216866

File	Sample	Surrogate	Recovery %	Internal Standard Responses		
0301003.D	LCS 50pp	111 109	112 113	838103	552075	220332
0401004.D	MB	100 104	102 103	840874	503236	180157
0501005.D	2756 ru	110 103	97 93	767100	446792	145072

t - fails 12hr time check \* - fails criteria

Created: Wed Feb 26 14:16:07 2020 VOC 1



ENVision Laboratories, Inc.  
1439 Sadler Circle West Drive  
Indianapolis, IN 46239  
Tel: 317.351.8632  
Fax: 317.351.8639  
[www.envisionlaboratories.com](http://www.envisionlaboratories.com)

8260 VOC  
Quality Control Data

- Method Blank (MB)
- Laboratory Control Standard (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022620\0401004.D  
 Acq On : 26 Feb 2020 11:11 am  
 Sample : MB  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 26 11:31 2020

Vial: 4  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	840874	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	503236	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	180157	50.00	ppb	0.00

System Monitoring Compounds						
26) Dibromofluoromethane (SURR)	3.16	113	294390	50.11	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	100.22%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	395314	51.95	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	103.90%
42) Toluene-d8 (SURR)	4.55	98	849992	50.86	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	101.72%
62) 4-Bromofluorobenzene (SURR)	6.60	95	306256	51.65	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	103.30%

Target Compounds Qvalue



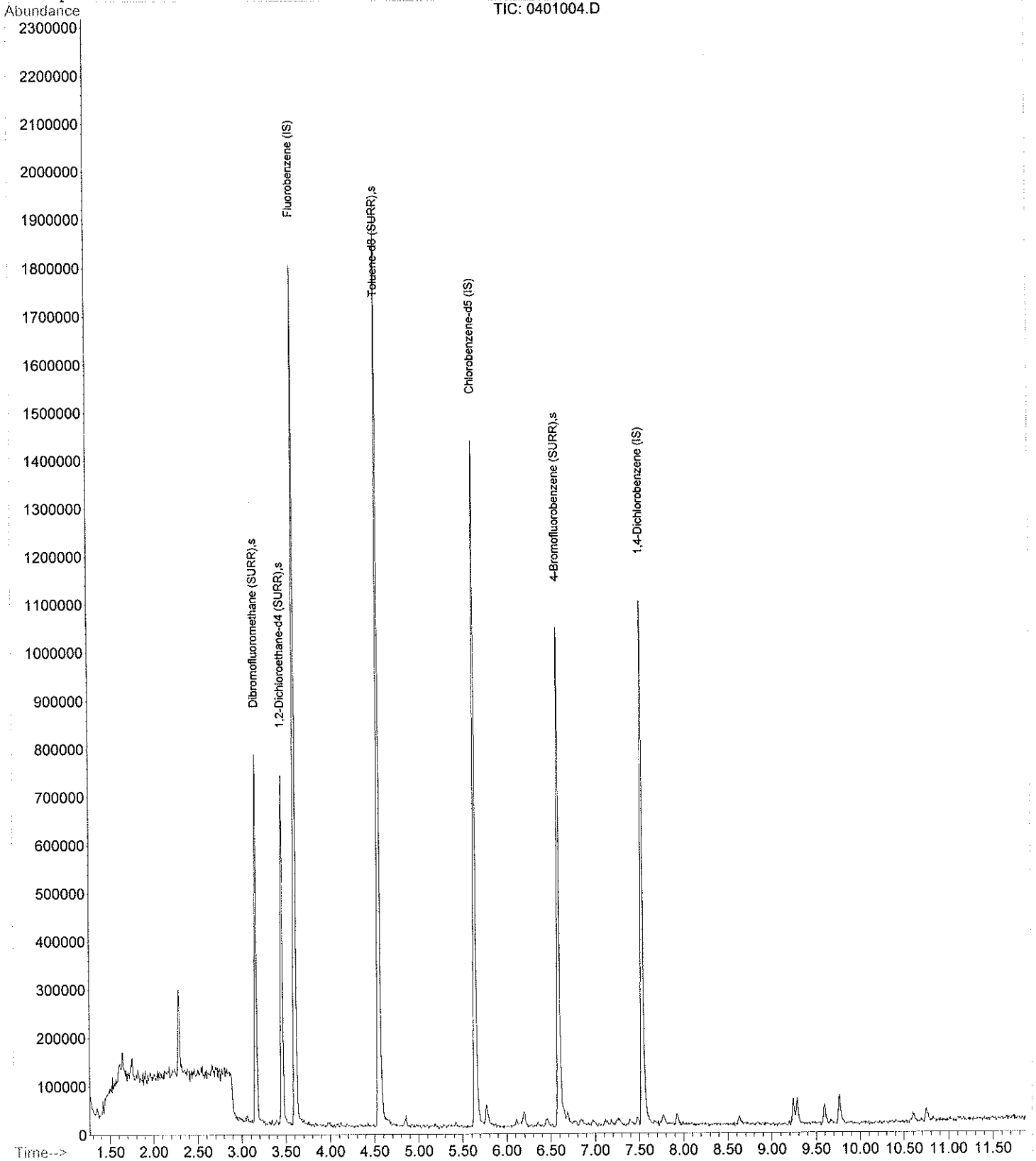
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022620\0401004.D  
Acq On : 26 Feb 2020 11:11 am  
Sample : MB  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 26 11:31 2020

Vial: 4  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022620\0301003.D  
 Acq On : 26 Feb 2020 10:54 am  
 Sample : LCS 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 26 11:07 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	838103	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	552075	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	220332	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.16	113	325536	55.59	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	111.18%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	412382	54.37	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	108.74%
42) Toluene-d8 (SURR)	4.55	98	933983	56.07	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	112.14%
62) 4-Bromofluorobenzene (SURR)	6.60	95	368483	56.65	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	113.30%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.29	85	1167716	49.27	ppb	
3) Chloromethane	1.41	50	732863	49.63	ppb	# 94
4) Vinyl Chloride*	1.45	62	946694	49.57	ppb	100
5) Bromomethane	1.63	94	967658	53.08	ppb	99
6) Chloroethane	1.70	64	562781	45.30	ppb	99
7) Acrolein	2.40	56	649482	49.12	ppb	99
8) Trichlorofluoromethane	1.76	101	2560088	53.34	ppb	99
9) Acetone	2.32	43	516022	123.92	ppb	97
10) 1,1-Dichloroethene*	2.02	61	1739503	47.80	ppb	99
11) Acrylonitrile	2.65	53	1924089	49.83	ppb	100
12) Iodomethane	2.10	142	931887	48.94	ppb	98
13) Methylene Chloride	2.29	84	800904	44.84	ppb	96
14) Carbon Disulfide	2.05	76	1191253	48.74	ppb	# 100
15) trans-1,2-Dichloroethene*	2.37	96	759621	50.95	ppb	97
16) Methyl-tert-butyl ether* (	2.41	73	1656741	47.63	ppb	# 100
17) 1,1-Dichloroethane*	2.67	63	2136227	49.06	ppb	99
18) Vinyl Acetate	2.77	43	1188148	43.65	ppb	97
19) N-Hexane	2.40	57	1260352	49.41	ppb	99
20) N-Butanol	2.76	57	667544	48.26	ppb	96
21) 2-Butanone (MEK)	3.23	43	476694	113.10	ppb	# 100
22) cis-1,2-Dichloroethene*	2.94	61	1342489	46.53	ppb	100
23) Bromochloromethane	3.05	128	247539	49.75	ppb	88
24) Chloroform*	3.07	83	1723920	46.01	ppb	100
25) 2-2-Dichloropropane	3.00	77	1735373	47.00	ppb	99
28) 1,2-Dichloroethane	3.50	62	1282552	46.06	ppb	100
29) 1,1,1-Trichloroethane*	3.19	97	1796681	48.00	ppb	98
30) 1,1-Dichloropropene	3.25	75	1238237	48.15	ppb	100
31) Carbon Tetrachloride	3.15	117	1703629	53.81	ppb	98
32) Benzene*	3.39	78	2353712	45.06	ppb	100
33) Dibromomethane	3.96	93	418017	46.02	ppb	99
34) 1,2-Dichloropropane	4.02	63	621502	44.77	ppb	98
35) Trichloroethene*	3.70	95	815015	45.31	ppb	99
36) Bromodichloromethane	4.04	83	1169623	46.12	ppb	99
37) 2-Chloroethyl-vinyl ether	4.37	63	759451	198.64	ppb	99
38) cis-1,3-Dichloropropene	4.43	75	966762	44.49	ppb	100
39) 4-Methyl-2-Pentanone (MIBK	4.83	43	1078357	107.97	ppb	98
40) trans-1,3-Dichloropene	4.86	75	925742	48.00	ppb	81
41) 1,1,2-Trichloroethane	4.97	83	365328	46.75	ppb	99
43) Toluene*	4.59	91	2802071	45.60	ppb	98
44) Ethyl Methacrylate	4.94	69	74265	41.68	ppb	# 98
45) 1,3-Dichloropropane	5.17	76	736850	46.01	ppb	99
46) 2-Hexanone	5.41	43	763482	108.36	ppb	99
48) Dibromochloromethane	5.11	129	586254	47.74	ppb	98
49) 1,2-Dibromoethane (EDB)	5.29	107	443387	46.59	ppb	99

(#) = qualifier out of range (m) = manual integration  
 0301003.D 022020RC.M Wed Feb 26 11:31:54 2020

GARY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022620\0301003.D  
 Acq On : 26 Feb 2020 10:54 am  
 Sample : LCS 50ppb  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 26 11:07 2020

Vial: 3  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) Tetrachloroethene	4.85	166	609094	48.59	ppb	98
51) 1,1,1,2-Tetrachloroethane*	5.70	131	598655	47.56	ppb	98
52) Chlorobenzene*	5.66	112	1750805	45.91	ppb	100
53) Ethyl Benzene*	5.67	91	3856976	48.26	ppb	100
54) m,p-Xylene	5.77	91	6186796	91.86	ppb	99
55) o-Xylene*	6.11	106	1135437	48.25	ppb	97
56) Bromoform	6.18	173	266594	50.29	ppb	97
57) Styrene	6.15	104	1693461	47.17	ppb	99
58) 1,1,2,2-Tetrachloroethane	6.75	85	294108	45.22	ppb	92
59) trans-1,4-Dichloro-2-buten	6.90	53	185444	49.50	ppb	99
60) 1,2,3-Trichloropropane	6.87	75	661847	53.17	ppb #	95
61) Isopropylbenzene	6.35	105	3809669	50.05	ppb	99
63) Bromobenzene	6.69	156	538560	46.35	ppb	96
64) N-Propylbenzene*	6.69	91	4861815	48.34	ppb	99
65) 2-Chlorotoluene	6.83	91	3164173	48.47	ppb	100
66) 4-Chlorotoluene	6.97	126	629107	48.07	ppb	93
68) 1,3,5-Trimethylbenzene	6.85	105	3223626	47.72	ppb	99
69) tert-butylbenzene	7.12	119	2879395	47.46	ppb	100
70) 1,2,4-Trimethylbenzene	7.18	105	3168289	48.23	ppb	99
71) sec-Butylbenzene	7.27	105	4414738	49.06	ppb	100
72) 1,3-Dichlorobenzene	7.48	146	1103864	47.75	ppb	99
73) 1,4-Dichlorobenzene	7.55	148	678747	46.69	ppb	98
74) p-Isopropyltoluene	7.39	119	3217685	47.68	ppb	99
75) 1,2-Dichlorobenzene	7.92	146	934127	47.56	ppb	99
76) N-Butylbenzene	7.76	91	3950434	50.18	ppb	99
77) 1,2-Dibromo-3-chloropropan	8.65	155	41034	45.07	ppb	92
78) 1,2,4-Trichlorobenzene	9.28	180	648381	48.84	ppb	98
79) Naphthalene	9.59	128	969632	47.70	ppb	99
80) Hexachloro-1,3-butadiene	9.24	225	381233	49.89	ppb	99
81) 1,2,3-Trichlorobenzene	9.76	180	537787	50.84	ppb	99
82) 1-Methylnaphthalene	10.74	142	380428	43.37	ppb	99
83) 2-Methylnaphthalene	10.59	142	444421	43.12	ppb	98

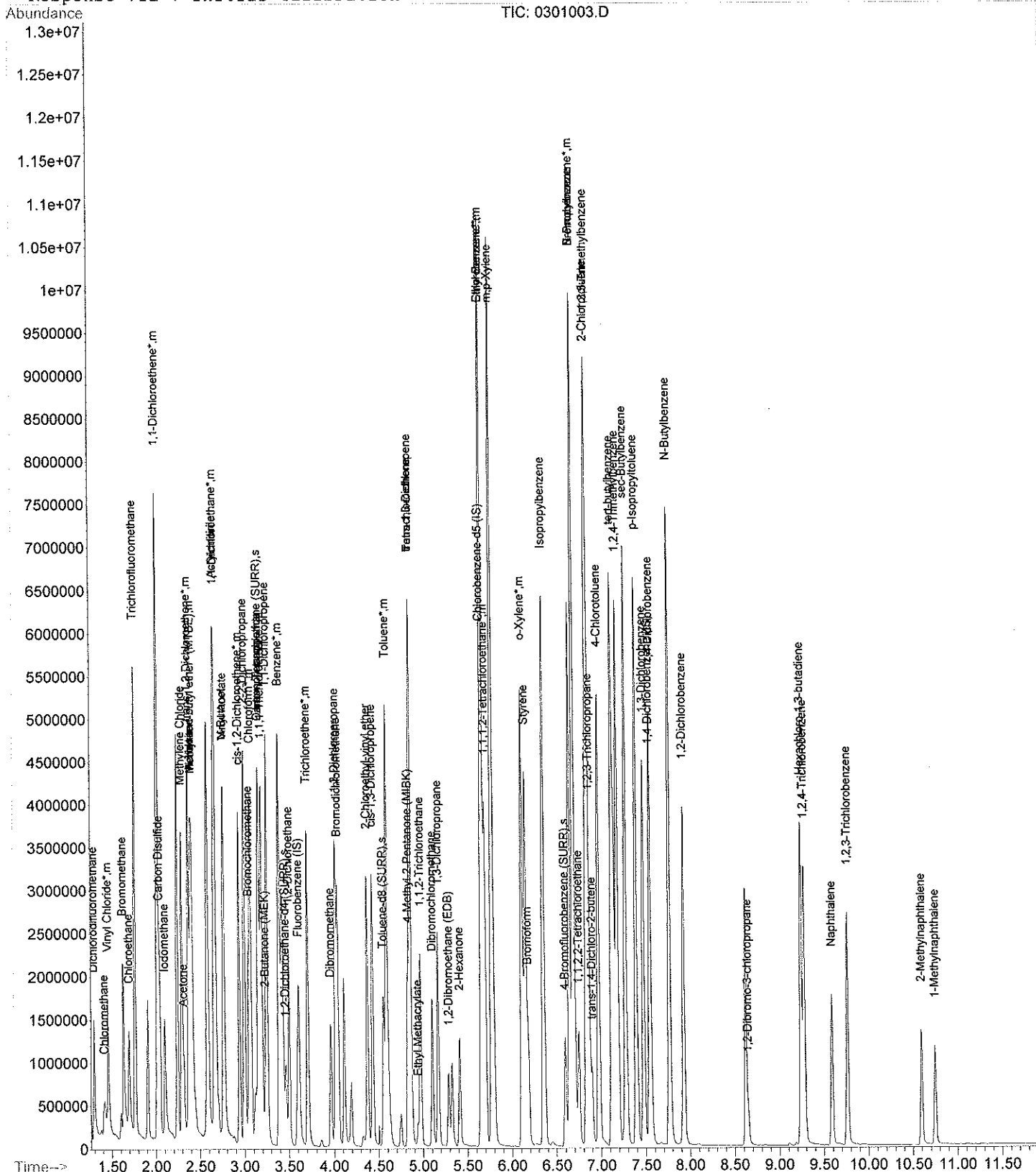
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022620\0301003.D
Acq On : 26 Feb 2020 10:54 am
Sample : LCS 50ppb
Misc : 092319 VOC1 curve, 8260 ical
MS Integration Params: rteint.p
Quant Time: Feb 26 11:07 2020

Vial: 3
Operator: gjd
Inst : VOC 1
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEX\022020RC.M (RTE Integrator)
Title : 8260 Volatile Soil Calibration
Last Update : Thu Feb 20 13:07:51 2020
Response via : Initial Calibration





ENVIision Laboratories, Inc.  
1439 Sadlier Circle West Drive  
Indianapolis, IN 46239  
Tel: 317.351.8632  
Fax: 317.351.8639  
[www.envisionlaboratories.com](http://www.envisionlaboratories.com)

## 8260 VOC

- Raw Sample Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022620\0501005.D  
 Acq On : 26 Feb 2020 11:28 am  
 Sample : 2756 rush  
 Misc : 092319 VOC1 curve, 8260 ical  
 MS Integration Params: rteint.p  
 Quant Time: Feb 26 11:36 2020

Vial: 5  
 Operator: gjd  
 Inst : VOC 1  
 Multiplr: 1.00

Quant Results File: 022020RC.RES

Quant Method : C:\HPCHEM\MSEXEXE\022020RC.M (RTE Integrator)  
 Title : 8260 Volatile Soil Calibration  
 Last Update : Thu Feb 20 13:07:51 2020  
 Response via : Initial Calibration  
 DataAcq Meth : VOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	3.61	96	767100	50.00	ppb	0.00
47) Chlorobenzene-d5 (IS)	5.64	117	446792	50.00	ppb	0.00
67) 1,4-Dichlorobenzene (IS)	7.54	152	145072	50.00	ppb	0.00

System Monitoring Compounds

26) Dibromofluoromethane (SURR)	3.16	113	294279	54.91	ppb	0.00
Spiked Amount	50.000	Range	54 - 140	Recovery	=	109.82%
27) 1,2-Dichloroethane-d4 (SUR)	3.46	65	358681	51.67	ppb	0.00
Spiked Amount	50.000	Range	54 - 138	Recovery	=	103.34%
42) Toluene-d8 (SURR)	4.55	98	742482	48.70	ppb	0.00
Spiked Amount	50.000	Range	61 - 127	Recovery	=	97.40%
62) 4-Bromofluorobenzene (SURR)	6.59	95	243974	46.34	ppb	0.00
Spiked Amount	50.000	Range	69 - 131	Recovery	=	92.68%

Target Compounds

Qvalue

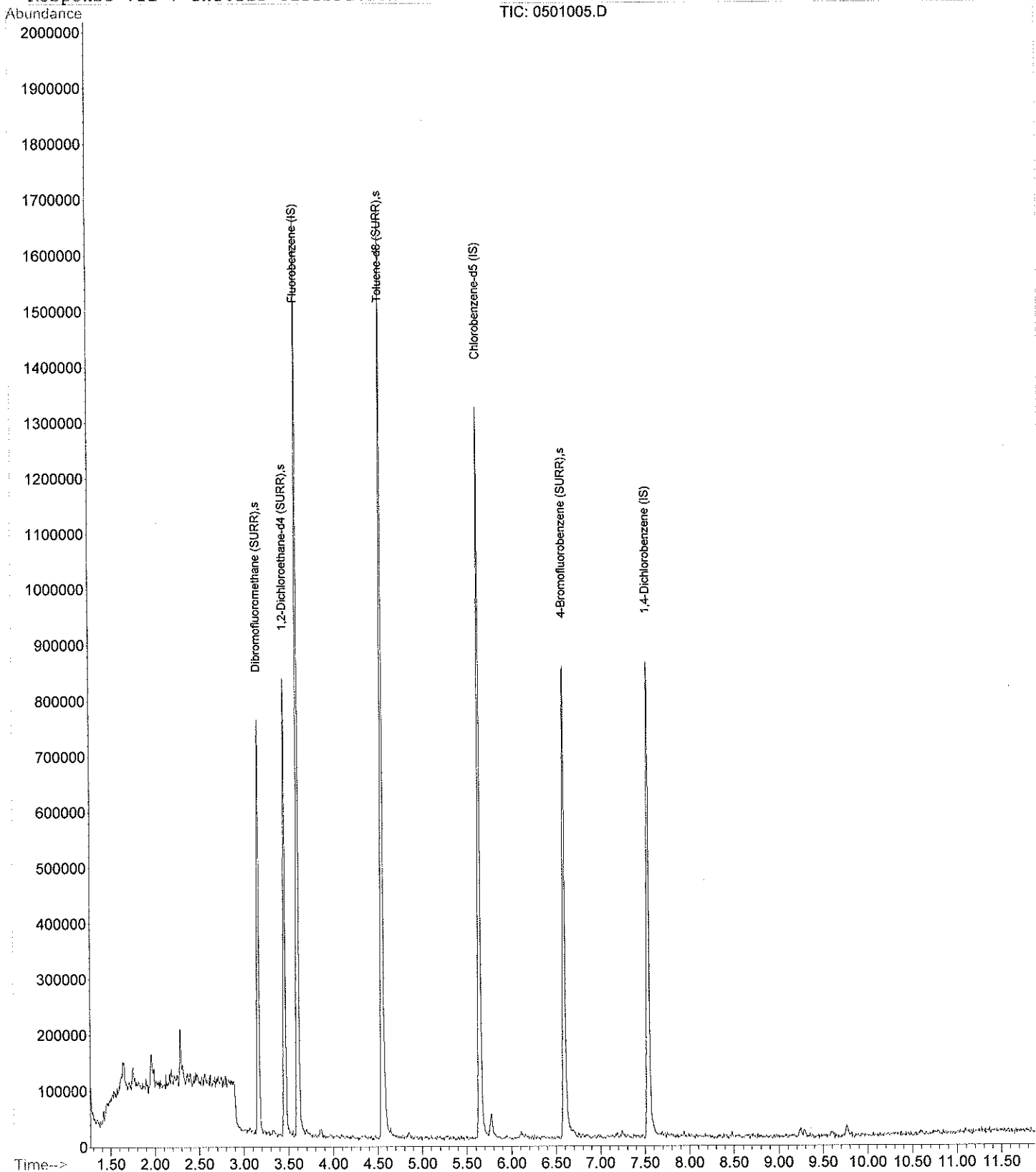
Quantitation Report

Data File : C:\HPCHEM\1\DATA\022620\0501005.D  
Acq On : 26 Feb 2020 11:28 am  
Sample : 2756 rush  
Misc : 092319 VOC1 curve, 8260 ical  
MS Integration Params: rteint.p  
Quant Time: Feb 26 11:36 2020

Vial: 5  
Operator: gjd  
Inst : VOC 1  
Multiplr: 1.00

Quant Results File: 022020RC.RES

Method : C:\HPCHEM\MSEXEN\022020RC.M (RTE Integrator)  
Title : 8260 Volatile Soil Calibration  
Last Update : Thu Feb 20 13:07:51 2020  
Response via : Initial Calibration



**Source Area Remediation Report  
Reed Manufacturing Services – Franklin, IN  
State Cleanup Site # 2013-42015**

**APPENDIX E**

**GROUNDWATER REMEDIATION INFORMATION**



# REDOX TECH, LLC



*"Providing Innovative In Situ Soil and Groundwater Treatment"*

March 10, 2020

Mr. Charles Goodwin  
Ramboll  
1560 Broadway  
Suite 1905  
Denver, CO 80202  
Email: [cgoodwin@ramboll.com](mailto:cgoodwin@ramboll.com)

## **RE: Summary Letter for Remedial Services in Franklin, IN**

Dear Mr. Goodwin,

The following letter provides a brief summary of the field events performed from March 3 through March 5, 2020 at Reed Manufacturing Services, located at 1056 Eastview Drive in Franklin, IN.

Injection of Potassium permanganate ( $\text{KMnO}_4$ ) solution was conducted via injection trailer equipped with a 550-gallon poly tank and 2-inch Sandpiper pump into an existing infiltration gallery. Injections took place in a total of five (5) injection lines (IL), each with varying lengths. The volume of solution injected into each line was proportional to the length of the line. Maintaining an approximate 4 weight percent solution, IL-1 received approximately 386 pounds (lbs)  $\text{KMnO}_4$  in 880 gallons of water. IL-2 received approximately 661 lbs  $\text{KMnO}_4$  in 1,500 gallons of water. Both IL-3 and IL-4 received approximately 772 lbs  $\text{KMnO}_4$  in 1,760 gallons of water. IL-5 received approximately 496 lbs  $\text{KMnO}_4$  in 1125 gallons of water.

Redox Tech initially attempted to gravity feed the solution into infiltration line IL-2 to determine if this approach would be appropriate for any subsequent injection events. However, after 18 minutes, only ~50 gallons drained into the gallery, resulting in a flowrate just under 3 gallons per minute (gpm). The remainder of the fluid was injected via pneumatic pump under injection pressures that were maintained between 20-25psi, which resulted in flow rates ranging from approximately 9 to 14 gpm.

Injection specifics, as well as a summary table and injection location map, can be found in **Appendix A**. Each standpipe was capped off with a glued adaptor and threaded cap upon completion. All garbage, buckets, lids, and pallets were removed from site by Redox Tech.

If there are any questions regarding the work, please do not hesitate to email me at [villegas@redox-tech.com](mailto:villegas@redox-tech.com), or via phone at (630) 705-0390.

Regards,

Daniel Villegas

**APPENDIX A**

**INJECTION LOGS**  
**(INCLUDING SUMMARY**  
**TABLE AND INJECTION LOCATION MAP)**

**Table 1. Injection Summary Table Franklin, IN**

<b>Injection Line</b>	<b>Date Completed</b>	<b>Solution Injected (gal)</b>	<b>KMnO<sub>4</sub> Injected (lbs)</b>
1 (26-ft)	3/4/2020	880	386.0
2 (45-ft)	3/3 - 3/4 2020	1500	661.0
3 (53.5-ft)	3/5/2020	1760	772.0
4 (53-ft)	3/4/2020	1760	772.0
5 (35-ft)	3/4 - 3/5 2020	1125	496.0

<b>Totals</b>		<b>7,025</b>	<b>3,087</b>
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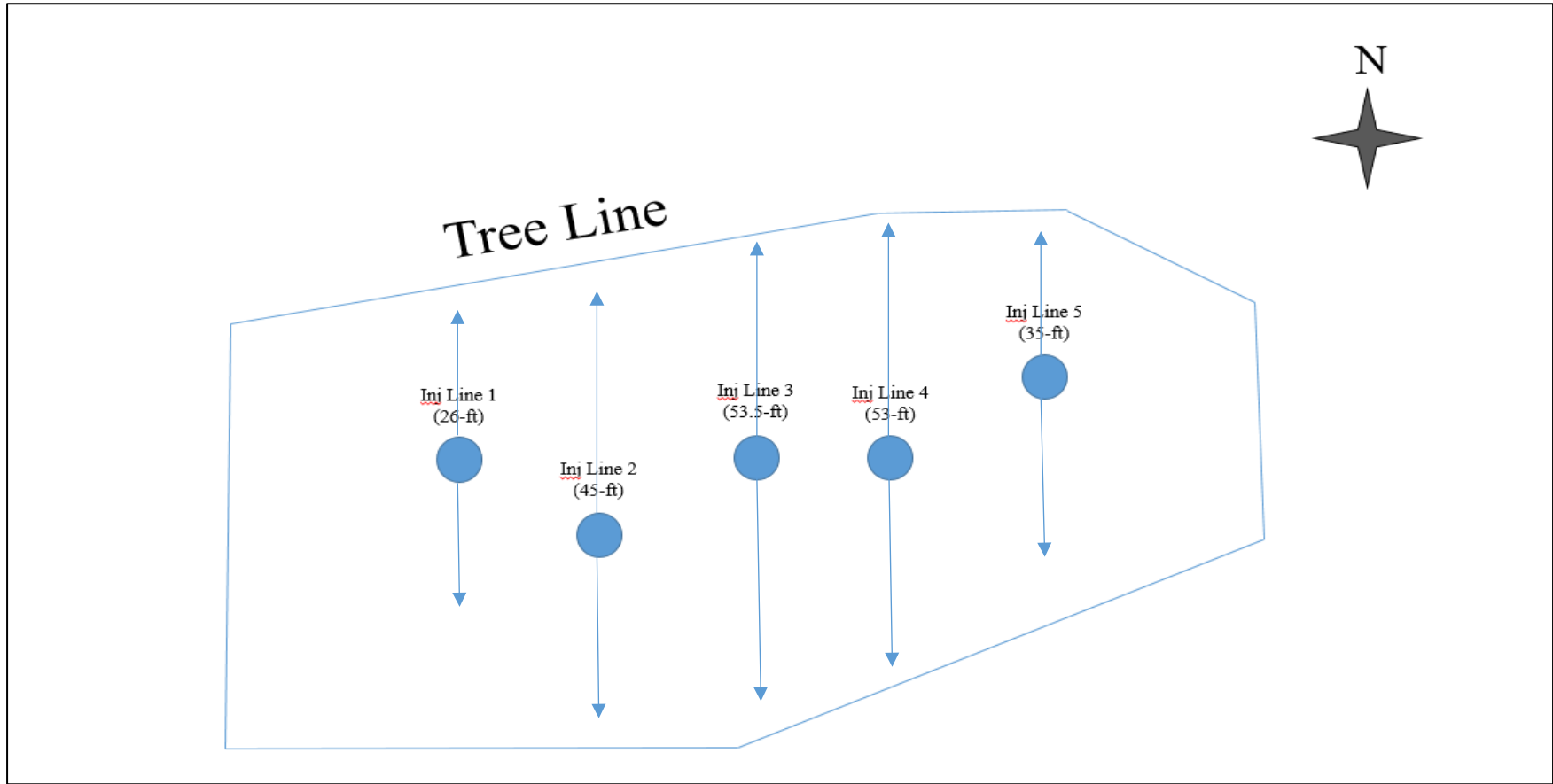


Figure 1. Injection Location Map Franklin, IN











